ip infusion™

OcNOS®

Open Compute Network Operating System for Service Providers

NetConf Command Reference
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IP Infusion Inc. Proprietary

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IP Infusion Inc.

3979 Freedom Circle

Suite 900

Santa Clara, California 95054

http://www.ipinfusion.com/

For support, questions, or comments via E-mail, contact:

support@ipinfusion.com

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Preface

This guide describes how to configure OcNOS.

Audience

This guide is intended for network administrators and other engineering professionals who configure OcNOS.

Conventions

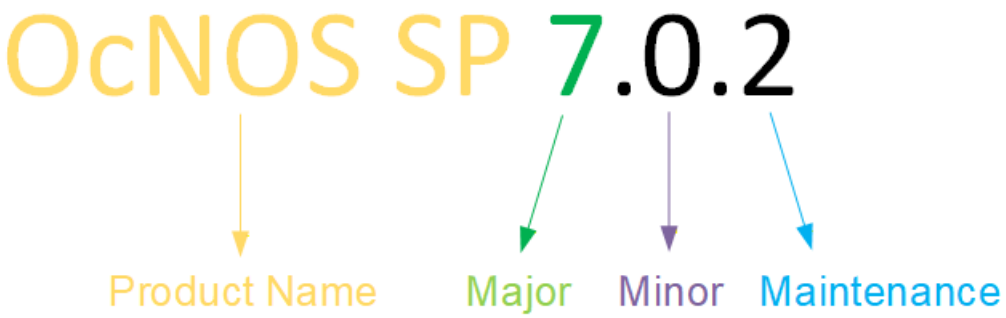
Table 1 on page 119 shows the conventions used in this guide.

Table 1: Conventions

Convention	Description
Italics	Emphasized terms or titles of books
Note:	Special instructions, suggestions, or warnings
`monospaced type`	Code elements such as commands, parameters, files, and directories

IP Infusion Product Release Version

Each integer in release number indicates Major, Minor, and Maintenance release versions. Build numbers that follow the release numbers are for internal tracking and verification of the software build process and are visible to customers as part of the software version number.



Product Name: IP Infusion Product Family

Major Version: New customer-facing functionality that represents a significant change to the code base; including, a significant marketing change or direction in the product.

Minor Version: Enhancements or extensions to existing features, changes to address external needs, or internal requirements might be motivated by improvements to satisfy new sales regions or marketing initiatives.

Maintenance Version: A collection of product bugs or hotfixes usually scheduled every 30 or 60 days, based on the number of hotfixes.

Related Documentation

For information about installing OcNOS, see the *Installation Guide* for your platform.

Feature Availability

Each OcNOS SKU contains a set of supported features. For a list of available features based on the SKU that you purchased. Refer to the *Feature Matrix*.

Migration Guide

Check the *Migration Guide* for necessary configuration changes before migrating from one version of OcNOS to another.

IP Maestro Support

Monitor devices running OcNOS Release 6.3.4-70 and above using IP Maestro software.

Technical Support

IP Infusion maintains an online technical support site that provides a variety of technical support programs for licensed OcNOS customers at the Technical Assistance Center.

Customers and partners enjoy full access to the support website. The site allows customers and partners to open technical support calls, update open calls with new information, and review the status of open or closed calls. The password-protected site includes technical documentation, Release Notes, and descriptions of service offerings.

Technical Sales

Contact the IP Infusion sales representative for more information about the OcNOS solution.

Technical Documentation

For core commands and configuration procedures, visit: Product Documentation.

For training videos, visit: OcNOS Free Training Videos.

For a list of supported platforms and SKUs of OcNOS features, refer to the OcNOS Feature Matrix.

Disclaimer

The global documentation site is evolving to provide an enhanced website user experience for select topics included in this release. Some guides are now available outside the existing documentation library and can be accessed directly from custom documentation landing pages. These guides offer robust in-built search functionality.

For the latest documentation, visit the product-specific documentation landing page and select the relevant guide.

Comments

If you have comments, or need to report a problem with the content, contact product-documentation@ipinfusion.com.

CHAPTER 1 NetConf Command Reference

IPI-MANAGEMENT-SERVER

Configure feature enabled

Enable callhome feature on the NETCONF server

This command is supported when following feature are enabled NETCONF feature

Attribute Name: feature-enabled

Attribute Type: uint8

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<callhomes>
<callhome>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
   </feature-enabled>
</callhome>
</callhomes>
</netconf-server>
```

Command Syntax

```
 callhome enable (vrf (management|NAME)|)
```

Configure port

Callhome server listening port number

This command is supported when following feature are enabled NETCONF feature

Attribute Name: port

Attribute Type: inet:port-number

Default Value: 4334

Attribute Range: 1-65535

Attribute Name: address

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<callhomes>
```

```
<callhome>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<netconf-clients>
<netconf-client>
   <name>WORD</name>
   <config>
      <name>WORD</name>
      <address>A.B.C.D|X:X::X:X|HOSTNAME</address>
   </config>
      <port>1</port>
</netconf-client>
</netconf-clients>
</callhome>
</callhomes>
</netconf-server>
```

Command Syntax

```
callhome server WORD (A.B.C.D|X:X::X:X|HOSTNAME) (port <1-65535>|)
```

Configure enable

specifies whether server will reconnect after client closes the session

This command is supported when following feature are enabled NETCONF feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<callhomes>
<callhome>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<reconnect>
<config>
      </enable>
</config>
</reconnect>
</callhome>
</callhomes>
</netconf-server>
```

Command Syntax

```
reconnect enable
```

Configure retry max attempts

Specifies the number of retry attempts the server should attempt to the callhome server before giving up. Set 0 to retry infinitely.

This command is supported when following feature are enabled NETCONF feature

Attribute Name: retry-max-attempts

Attribute Type: uint8

Default Value: 3

Attribute Range: 0-255

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<callhomes>
<callhome>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<reconnect>
<config>
      <retry-max-attempts>0</retry-max-attempts> <!-- operation="delete"-->
</config>
</reconnect>
</callhome>
</callhomes>
</netconf-server>
```

Command Syntax

```
 retry-max-attempts <0-255>
```

Configure retry interval

Specifies the number of seconds to wait after a connect attempt to the callhome server has failed

This command is supported when following feature are enabled NETCONF feature

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 300

Attribute Range: 1-86400

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<callhomes>
<callhome>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
```

```
   </config>
<reconnect>
<config>
       <retry-interval>1</retry-interval> <!-- operation="delete"-->
</config>
</reconnect>
</callhome>
</callhomes>
</netconf-server>
```

Command Syntax

```
 retry-interval <1-86400>
```

Configure vrf name

Enable debugging info for callhome

This command is supported when following feature are enabled NETCONF feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<callhomes>
<callhome>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<debug>
<config>
       </enable><!-- operation="delete"-->
</config>
</debug>
</callhome>
</callhomes>
</netconf-server>
```

Command Syntax

```
 debug callhome
```

Configure translation mode

Enable/disable NETCONF translation

This command is supported when following feature are enabled NETCONF feature,NETCONF translation feature

Attribute Name: translation-mode

Attribute Type: enum (openconfig)

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<netconf-translation>
<config>
   <translation-mode>openconfig</translation-mode> <!-- operation="delete"-->
</config>
</netconf-translation>
</netconf-server>
```

Command Syntax

```
netconf translation (openconfig)
```

Configure feature netconf ssh

Use this attribute to enable or disable NETCONF SSH feature.

This command is supported when following feature are enabled NETCONF feature,Virtual routing and forwarding

Attribute Name: feature-netconf-ssh

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<netconf-ssh-config>
<config>
      </feature-netconf-ssh><!-- operation="delete"-->
</config>
</netconf-ssh-config>
</vrf>
</vrfs>
</netconf-server>
```

Command Syntax

```
feature netconf-ssh (vrf (management|NAME)|)
```

Configure ssh port

Use this attribute to set the ssh-port number on which the NETCONF server listens for connections. The default port on which the netconf-ssh server listens is 830.

This command is supported when following feature are enabled NETCONF feature,Virtual routing and forwarding

Attribute Name: ssh-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<netconf-ssh-config>
<config>
      <ssh-port>1024</ssh-port> <!-- operation="delete"-->
</config>
</netconf-ssh-config>
</vrf>
</vrfs>
</netconf-server>
```

Command Syntax

```
netconf server ssh-port <1024-65535> (vrf (management|NAME)|)
```

Configure disable default ssh port

Use this attribute to disable the ssh-port number on which the NETCONF server listens for connections. The default port on which the netconf-ssh server listens is 22/830. Hence disabling 22.

This command is supported when following feature are enabled NETCONF feature,Virtual routing and forwarding

Attribute Name: disable-default-ssh-port

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<netconf-ssh-config>
<config>
      </disable-default-ssh-port><!-- operation="delete"-->
</config>
</netconf-ssh-config>
</vrf>
</vrfs>
</netconf-server>
```

Command Syntax

```
netconf-server disable default-ssh-port (vrf (management|NAME)|)
```

Configure feature netconf tls

Use this attribute to enable or disable NETCONF TLS feature.

This command is supported when following feature are enabled NETCONF feature,Virtual routing and forwarding

Attribute Name: feature-netconf-tls

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<netconf-tls-config>
<config>
      </feature-netconf-tls><!-- operation="delete"-->
</config>
</netconf-tls-config>
</vrf>
</vrfs>
</netconf-server>
```

Command Syntax

```
 feature netconf-tls (vrf (management|NAME)|)
```

Configure tls port

Use this attribute to set the tls-port number on which the NETCONF server listens for connections. The default port on which the netconf-tls server listens is 6513.

This command is supported when following feature are enabled NETCONF feature,Virtual routing and forwarding

Attribute Name: tls-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<netconf-tls-config>
<config>
      <tls-port>1024</tls-port> <!-- operation="delete"-->
```

```
</config>
</netconf-tls-config>
</vrf>
</vrfs>
</netconf-server>
```

Command Syntax

```
netconf server tls-port <1024-65535> (vrf (management|NAME)|)
```

Configure netconf tls disable default instance

Use this attribute to prevent default netconf-tls server config from being enabled at start up

This command is supported when following feature are enabled NETCONF feature

Attribute Name: netconf-tls-disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<netconf-tls-default-instance>
<config>
   </netconf-tls-disable-default-instance><!-- operation="delete"-->
</config>
</netconf-tls-default-instance>
</netconf-server>
```

Command Syntax

```
netconf-tls disable-default
```

Configure netconf ssh disable default instance

Use this attribute to prevent default netconf-ssh server config from being enabled at start up

This command is supported when following feature are enabled NETCONF feature

Attribute Name: netconf-ssh-disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<netconf-ssh-default-instance>
<config>
   </netconf-ssh-disable-default-instance><!-- operation="delete"-->
</config>
</netconf-ssh-default-instance>
</netconf-server>
```

Command Syntax

```
netconf-ssh disable-default
```

Configure notification-cache feature-enabled

Enable notification cache feature on the NETCONF server

This command is supported when following feature are enabled NETCONF feature

Attribute Name: feature-enabled

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<notification-cache>
<config>
   </feature-enabled>
</config>
</notification-cache>
</netconf-server>
```

Command Syntax

```
feature netconf notification-cache enable
```

Configure max cache notifications

Specifies the maximum number of notifications those can be stored in cache. Set 0 for infinite notifications.

This command is supported when following feature are enabled NETCONF feature

Attribute Name: max-cache-notifications

Attribute Type: uint16

Default Value: 100

Attribute Range: 0-10000

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<notification-cache>
<config>
   <max-cache-notifications>0</max-cache-notifications> <!-- operation="delete"-->
</config>
</notification-cache>
</netconf-server>
```

Command Syntax

```
max-cache-notifications <0-10000>
```

Configure cache period

Specifies the number of seconds, cmld store notification messages in cache since it started

This command is supported when following feature are enabled NETCONF feature

Attribute Name: cache-period

Attribute Type: uint32

Default Value: 1200

Attribute Range: 1-3600

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<notification-cache>
<config>
   <cache-period>1</cache-period> <!-- operation="delete"-->
</config>
</notification-cache>
</netconf-server>
```

Command Syntax

```
 cache-period <1-3600>
```

Configure disable commit history

This attribute is used to disable features like commit confirmed and commit rollback

Attribute Name: disable-commit-history

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<commit-history>
<config>
   </disable-commit-history><!-- operation="delete"-->
</config>
</commit-history>
</netconf-server>
```

Command Syntax

```
 cml commit-history disable
```

Configure bulk config cpu limit enabled

This attribute is used to enable and disable bulk config cpu limit

Attribute Name: bulk-config-cpu-limit-enabled

Attribute Type: empty

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
<bulk-config>
<config>
   </bulk-config-cpu-limit-enabled><!-- operation="delete"-->
</config>
</bulk-config>
```

```
   </netconf-server>
```

Command Syntax

```
    cml bulk-config limit cpu enable
```

IPI-STREAMING-TELEMETRY

Configure config maximum subscribe paths

Maximum number of sensor-paths supported for this device

Attribute Name: config-maximum-subscribe-paths

Attribute Type: uint32

Attribute Range: 10-1000

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <global>
   <config>
      <config-maximum-subscribe-paths>10</config-maximum-subscribe-paths> <!--
operation="delete"-->
   </config>
   </global>
   </telemetry-system>
```

Command Syntax

```
    telemetry maximum-subscribe-paths <10-1000>
```

Configure config minimum sample interval

Minimum sample-interval supported for this device

Attribute Name: config-minimum-sample-interval

Attribute Type: uint32

Attribute Range: 10-3600

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <global>
   <config>
      <config-minimum-sample-interval>10</config-minimum-sample-interval> <!--
operation="delete"-->
   </config>
   </global>
   </telemetry-system>
```

Command Syntax

```
telemetry minimum-sample-interval <10-3600>
```

Configure feature enabled

Use this attribute to enable or disable Telemetry feature

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: feature-enabled

Attribute Type: uint8

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <streaming-telemetry>
   <config>
         </feature-enabled>
   </config>
   </streaming-telemetry>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
feature streaming-telemetry (vrf (management|NAME)|)
```

Configure insecure tls

Disable certificate validation in a TLS-enabled connection

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: insecure-tls

Attribute Type: empty

Attribute Name: tls-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
```

```
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <streaming-telemetry>
   <config>
         <tls-port>1024</tls-port> <!-- operation="delete"-->
         </insecure-tls><!-- operation="delete"-->
   </config>
   </streaming-telemetry>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
tls tls-port <1024-65535> (insecure|)
```

Configure non tls port

Insecure port for Telemetry feature

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: non-tls-port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <streaming-telemetry>
   <config>
         <non-tls-port>1024</non-tls-port> <!-- operation="delete"-->
   </config>
   </streaming-telemetry>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
port <1024-65535>
```

Configure retry interval

If the grpc-tunnel-server is unreachable, the gnmi-server retries to connect with gnmi-client after the retry-interval

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 60

Attribute Range: 30-3000

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <streaming-telemetry>
   <retry>
   <config>
          <retry-interval>30</retry-interval> <!-- operation="delete"-->
   </config>
   </retry>
   </streaming-telemetry>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
    grpc-tunnel-server retry-interval <30-3000>
```

Configure name

Reference to the identifier of the subscription itself. The id will be the handle to refer to the subscription once created

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
```

```
        <vrf-name>management</vrf-name>
      </config>
   <subscriptions>
   <persistent-subscriptions>
   <persistent-subscription> <!-- operation="delete"-->
      <name>NAME</name>
      <config>
         <name>NAME</name>
      </config>
   </persistent-subscription>
   </persistent-subscriptions>
   </subscriptions>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
subscription-name NAME (vrf (management|NAME)|)
```

Configure encoding

Selection of the specific encoding or RPC framework for telemetry messages to and from the network element. The encoding method controls specifically the wire format of the telemetry data, and also controls which RPC framework may be in use to exchange telemetry data

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: encoding

Attribute Type: enum (json-ietf|json|proto)

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <subscriptions>
   <persistent-subscriptions>
   <persistent-subscription>
      <name>NAME</name>
      <config>
         <name>NAME</name>
      </config>
         <encoding>json-ietf</encoding> <!-- operation="delete"-->
   </persistent-subscription>
   </persistent-subscriptions>
   </subscriptions>
   </vrf>
```

```
</vrfs>
</telemetry-system>
```

Command Syntax

```
encoding (json-ietf|json|proto)
```

Configure sensor group

Reference to the telemetry sensor group name

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: sensor-group

Attribute Type: string

Attribute Range: 1-64

Attribute Name: sample-interval

Attribute Type: uint64

Attribute Range: 10-3600

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<subscriptions>
<persistent-subscriptions>
<persistent-subscription>
   <name>NAME</name>
   <config>
      <name>NAME</name>
   </config>
   <sensor-profiles>
   <sensor-profile> <!-- operation="delete"-->
      <sensor-group>SENSOR-GROUP-NAME</sensor-group>
      <config>
         <sensor-group>WORD</sensor-group>
         <sample-interval>10</sample-interval>
      </config>
   </sensor-profile>
</sensor-profiles>
</persistent-subscription>
</persistent-subscriptions>
</subscriptions>
</vrf>
</vrfs>
```

```
   </telemetry-system>
```

Command Syntax

```
    sensor-group SENSOR-GROUP-NAME sample-interval <10-3600>
```

Configure group id

The destination group id references a configured group of destinations for the telemetry stream

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <subscriptions>
   <persistent-subscriptions>
   <persistent-subscription>
      <name>NAME</name>
      <config>
         <name>NAME</name>
      </config>
      <destination-groups>
      <destination-group> <!-- operation="delete"-->
         <group-id>GRPC-GROUP-NAME</group-id>
         <config>
            <group-id>WORD</group-id>
         </config>
      </destination-group>
   </destination-groups>
   </persistent-subscription>
   </persistent-subscriptions>
   </subscriptions>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
    destination-group GRPC-GROUP-NAME
```

Configure sensor group id

Name or identifier for the sensor group itself.Will be referenced by other configuration specifying a sensor group

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: sensor-group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <sensor-groups>
   <sensor-group> <!-- operation="delete"-->
      <sensor-group-id>SENSOR-NAME</sensor-group-id>
      <config>
         <sensor-group-id>WORD</sensor-group-id>
      </config>
   </sensor-group>
   </sensor-groups>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
    sensor-group SENSOR-NAME (vrf (management|NAME)|)
```

Configure path

Reference to the path of interest

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: path

Attribute Type: string

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
```

```
      </config>
   <sensor-groups>
   <sensor-group>
      <sensor-group-id>SENSOR-NAME</sensor-group-id>
      <config>
         <sensor-group-id>WORD</sensor-group-id>
      </config>
      <sensor-paths>
      <sensor-path> <!-- operation="delete"-->
         <path>SENSOR-PATH</path>
         <config>
            <path>WORD</path>
         </config>
      </sensor-path>
   </sensor-paths>
   </sensor-group>
   </sensor-groups>
   </vrf>
   </vrfs>
   </telemetry-system>
```

Command Syntax

```
 sensor-path SENSOR-PATH
```

Configure vrf name

Unique identifier for the destination group

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <destination-groups>
   <destination-group> <!-- operation="delete"-->
      <group-id>TUNNEL-NAME</group-id>
      <config>
         <group-id>WORD</group-id>
      </config>
   </destination-group>
   </destination-groups>
```

```
</vrf>
</vrfs>
</telemetry-system>
```

Command Syntax

```
destination-group TUNNEL-NAME (vrf (management|NAME)|)
```

Configure destination port

Reference to the port number of the stream destination

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: destination-port

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<destination-groups>
<destination-group>
   <group-id>TUNNEL-NAME</group-id>
   <config>
      <group-id>WORD</group-id>
   </config>
   <destinations>
   <destination> <!-- operation="delete"-->
      <destination-port>1</destination-port>
      <config>
         <destination-port>1</destination-port>
         <destination-address>A.B.C.D</destination-address>
      </config>
         <destination-address>A.B.C.D</destination-address>
   </destination>
</destinations>
</destination-group>
</destination-groups>
</vrf>
</vrfs>
</telemetry-system>
```

Command Syntax

```
tunnel-server ip A.B.C.D port <1-65535>
```

Configure gnmi severity

device’s debug telemetry severity level

Attribute Name: gnmi-severity

Attribute Type: enum (debug|info|warning|error|fatal|panic|d-panic)

Default Value: error

Attribute Name: gnmi-debug

Attribute Type: empty

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <debug>
   <config>
      </gnmi-debug><!-- operation="delete"-->
      <gnmi-severity>error</gnmi-severity> <!-- operation="delete"-->
   </config>
   </debug>
   </telemetry-system>
```

Command Syntax

```
    debug telemetry gnmi enable severity (debug|info|warning|error|fatal|panic|d-panic)
```

Configure gnmi debug

Enable or Disable device’s debug telemetry

Attribute Name: gnmi-debug

Attribute Type: empty

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <debug>
   <config>
      </gnmi-debug>
   </config>
   </debug>
   </telemetry-system>
```

Command Syntax

```
    debug telemetry gnmi enable
```

Configure enable cpu limit

Enable CPU monitoring for streaming telemetry

Attribute Name: enable-cpu-limit

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <cpu-monitoring>
   <config>
      <enable-cpu-limit>enable</enable-cpu-limit>
   </config>
   </cpu-monitoring>
   </telemetry-system>
```

Command Syntax

```
    telemetry cpu-monitor (enable)
```

Configure cpu-monitoring enable-cpu-limit

Enable CPU monitoring for streaming telemetry

Attribute Name: enable-cpu-limit

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <cpu-monitoring>
   <config>
      <enable-cpu-limit>enable</enable-cpu-limit>
   </config>
   </cpu-monitoring>
   </telemetry-system>
```

Command Syntax

```
    telemetry cpu-monitor (disable)
```

Configure suppress threshold

Set CPU threshold for suppressing active streaming

Attribute Name: suppress-threshold

Attribute Type: uint16

Default Value: 40

Attribute Range: 20-80

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <cpu-monitoring>
   <config>
      <suppress-threshold>20</suppress-threshold> <!-- operation="delete"-->
```

```
   </config>
   </cpu-monitoring>
   </telemetry-system>
```

Command Syntax

```
    suppress-threshold <20-80>
```

Configure no-suppress-grps sensor-group-id

Reference to the sensor group which is used in the profile

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: sensor-group-id

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <telemetry-system xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-streaming-
telemetry">
   <cpu-monitoring>
   <no-suppress-grps>
   <no-suppress-grp> <!-- operation="delete"-->
      <sensor-group-id>SENSOR-GROUP</sensor-group-id>
      <config>
         <sensor-group-id>SENSOR-GROUP</sensor-group-id>
         <vrf-name>management</vrf-name>
      </config>
      <vrf-name>management</vrf-name>
   </no-suppress-grp>
   </no-suppress-grps>
   </cpu-monitoring>
   </telemetry-system>
```

Command Syntax

```
    do-not-suppress (vrf (management|NAME)|) sensor-group-id SENSOR-GROUP
```

IPI-SAT

Configure rate pname

SAT profile name

Attribute Name: rate-pname

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile> <!-- operation="delete"-->
   <rate-pname>NAME</rate-pname>
   <config>
      <rate-pname>WORD</rate-pname>
   </config>
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
ethernet sat rate-profile NAME
```

Configure two way

Used to set/unset two-way

Attribute Name: two-way

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile>
   <rate-pname>NAME</rate-pname>
   <config>
      <rate-pname>WORD</rate-pname>
   </config>
   </two-way><!-- operation="delete"-->
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
two-way
```

Configure color aware

Used to set/unset the color-aware

Attribute Name: color-aware

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile>
   <rate-pname>NAME</rate-pname>
```

```
    <config>
       <rate-pname>WORD</rate-pname>
    </config>
    </color-aware><!-- operation="delete"-->
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
 color-aware
```

Configure load step

Specify the load-step

Attribute Name: load-step

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile>
    <rate-pname>NAME</rate-pname>
    <config>
       <rate-pname>WORD</rate-pname>
    </config>
    <load-step>1</load-step> <!-- operation="delete"-->
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
 load-steps <1-10>
```

Configure mode

Use this attribute to set/unset the SAT mode

Attribute Name: mode

Attribute Type: enum (generator|receiver|generator-receiver)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile>
    <rate-pname>NAME</rate-pname>
    <config>
       <rate-pname>WORD</rate-pname>
```

```
    </config>
    <mode>generator</mode> <!-- operation="delete"-->
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
mode (generator|receiver|generator-receiver)
```

Configure cir

commited information rate

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Name: cir-dei

Attribute Type: uint8

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile>
    <rate-pname>NAME</rate-pname>
    <config>
        <rate-pname>WORD</rate-pname>
    </config>
<commited-information-rate>
<config>
       <cir-unit>kbps</cir-unit>
       <cir-cos>0</cir-cos>
       <cir-dei>0</cir-dei>
       <cir>1</cir>
</config>
</commited-information-rate>
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
cir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure eir

Excess Information Rate

Attribute Name: eir

Attribute Type: uint64

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: eir-cos

Attribute Type: uint8

Attribute Name: eir-dei

Attribute Type: uint8

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile>
   <rate-pname>NAME</rate-pname>
   <config>
      <rate-pname>WORD</rate-pname>
   </config>
<excess-information-rate>
<config>
       <eir-unit>kbps</eir-unit>
       <eir-cos>0</eir-cos>
       <eir-dei>0</eir-dei>
       <eir>1</eir>
</config>
</excess-information-rate>
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
 eir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure min rate

Configures the unit for maximum delay rate as milli-secs/micro-secs/nano-secs

Attribute Name: min-rate

Attribute Type: enum (ms|us|ns)

Attribute Name: min-range

Attribute Type: uint16

Attribute Name: max-rate

Attribute Type: enum (ms|us|ns)

Attribute Name: max-range

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<rate-profiles>
<rate-profile>
   <rate-pname>NAME</rate-pname>
   <config>
      <rate-pname>WORD</rate-pname>
   </config>
<delay-bins>
<config>
       <min-range>1</min-range>
       <max-rate>ms</max-rate>
       <max-range>1</max-range>
       <min-rate>ms</min-rate>
</config>
</delay-bins>
</rate-profile>
</rate-profiles>
</sat>
```

Command Syntax

```
delay-bins min (ms|us|ns) <1-4000> max (ms|us|ns) <1-400>
```

Configure acceptance pname

SAT acceptance profile name

Attribute Name: acceptance-pname

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<acceptance-profiles>
<acceptance-profile> <!-- operation="delete"-->
   <acceptance-pname>NAME</acceptance-pname>
   <config>
      <acceptance-pname>WORD</acceptance-pname>
   </config>
</acceptance-profile>
</acceptance-profiles>
</sat>
```

Command Syntax

```
ethernet sat acceptance-profile NAME
```

Configure cir frame loss ratio

Specify the cir frame loss ratio

Attribute Name: cir-frame-loss-ratio

Attribute Type: string

Netconf edit-config payload

```
    <sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
    <acceptance-profiles>
    <acceptance-profile>
       <acceptance-pname>NAME</acceptance-pname>
       <config>
          <acceptance-pname>WORD</acceptance-pname>
       </config>
       <cir-frame-loss-ratio>CIR_RATIO</cir-frame-loss-ratio> <!-- operation="delete"--
>
    </acceptance-profile>
    </acceptance-profiles>
    </sat>
```

Command Syntax

```
     cir frame-loss-ratio CIR_RATIO
```

Configure cir frame loss ratio policing

Specifiy cir frame loss ratio policing

Attribute Name: cir-frame-loss-ratio-policing

Attribute Type: string

Netconf edit-config payload

```
    <sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
    <acceptance-profiles>
    <acceptance-profile>
       <acceptance-pname>NAME</acceptance-pname>
       <config>
          <acceptance-pname>WORD</acceptance-pname>
       </config>
       <cir-frame-loss-ratio-policing>CIR_RATIO_POLICING</cir-frame-loss-ratio-
policing> <!-- operation="delete"-->
    </acceptance-profile>
    </acceptance-profiles>
    </sat>
```

Command Syntax

```
     cir frame-loss-ratio-policing CIR_RATIO_POLICING
```

Configure cir frame delay variation range

Specify the cir frame delay variation range

Attribute Name: cir-frame-delay-variation-range

Attribute Type: uint16

Attribute Range: 1-10000

Attribute Name: cir-frame-delay-variation

Attribute Type: enum (ms|us|ns)

Netconf edit-config payload

```
   <sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
   <acceptance-profiles>
   <acceptance-profile>
      <acceptance-pname>NAME</acceptance-pname>
      <config>
         <acceptance-pname>WORD</acceptance-pname>
         <cir-frame-delay-variation>ms</cir-frame-delay-variation> <!--
operation="delete"-->
      </config>
      <cir-frame-delay-variation-range>1</cir-frame-delay-variation-range> <!--
operation="delete"-->
   </acceptance-profile>
   </acceptance-profiles>
   </sat>
```

Command Syntax

```
    cir frame-delay-variation (ms|us|ns) <1-10000>
```

Configure cir frame delay range

specify the cir frame delay variation range

Attribute Name: cir-frame-delay-range

Attribute Type: uint16

Attribute Range: 1-10000

Attribute Name: cir-frame-delay

Attribute Type: enum (ms|us|ns)

Netconf edit-config payload

```
   <sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
   <acceptance-profiles>
   <acceptance-profile>
      <acceptance-pname>NAME</acceptance-pname>
      <config>
         <acceptance-pname>WORD</acceptance-pname>
         <cir-frame-delay>ms</cir-frame-delay> <!-- operation="delete"-->
      </config>
```

```
    <cir-frame-delay-range>1</cir-frame-delay-range> <!-- operation="delete"-->
</acceptance-profile>
</acceptance-profiles>
</sat>
```

Command Syntax

```
cir frame-delay (ms|us|ns) <1-10000>
```

Configure size pname

SAT frame size profile name

Attribute Name: size-pname

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile> <!-- operation="delete"-->
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
ethernet sat frame-size-profile NAME
```

Configure size h

Specify the size h frame size range between 64 to 9200

Attribute Name: size-h

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   <size-h>64</size-h> <!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
```

```
</sat>
```

Command Syntax

```
size-h <64-2000>
```

Configure frame-size-profile size-h

Specify the size h frame size range between 64 to 9200

Attribute Name: size-h

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   <size-h>64</size-h> <!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-h <64-9200>
```

Configure size u

Specify the size u frame size range between 64 to 9200

Attribute Name: size-u

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   <size-u>64</size-u> <!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-u <64-2000>
```

Configure frame-size-profile size-u

Specify the size u frame size range between 64 to 9200

Attribute Name: size-u

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   <size-u>64</size-u> <!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-u <64-9200>
```

Configure size a

Specify the size a frame size as 64

Attribute Name: size-a

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   </size-a><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
size-a 64
```

Configure size b

Specify the size b frame size as 128

Attribute Name: size-b

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   </size-b><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
 size-b 128
```

Configure size c

Specify the size c frame size as 256

Attribute Name: size-c

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   </size-c><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
 size-c 256
```

Configure size d

Specify the size d frame size as 512

Attribute Name: size-d

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   </size-d><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
 size-d 512
```

Configure size e

Specify the size e frame size as 1024

Attribute Name: size-e

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
   <size-pname>NAME</size-pname>
   <config>
      <size-pname>WORD</size-pname>
   </config>
   </size-e><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
 size-e 1024
```

Configure size f

Specify the size f frame size as 1280

Attribute Name: size-f

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
```

```
    <size-pname>NAME</size-pname>
    <config>
       <size-pname>WORD</size-pname>
    </config>
    </size-f><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
 size-f 1280
```

Configure size g

Specify the size g frame size as 1518

Attribute Name: size-g

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<frame-size-profiles>
<frame-size-profile>
    <size-pname>NAME</size-pname>
    <config>
       <size-pname>WORD</size-pname>
    </config>
    </size-g><!-- operation="delete"-->
</frame-size-profile>
</frame-size-profiles>
</sat>
```

Command Syntax

```
 size-g 1518
```

Configure test name

SAT test

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test> <!-- operation="delete"-->
    <test-name>NAME</test-name>
    <config>
```

```
        <test-name>WORD</test-name>
      </config>
   </test>
   </tests>
   </sat>
```

Command Syntax

```
ethernet sat NAME
```

Configure description

Used to set the description

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
   <description>LINE</description> <!-- operation="delete"-->
</test>
</tests>
</sat>
```

Command Syntax

```
description LINE
```

Configure direction

Used to map the direction as upstream/downstream

Attribute Name: direction

Attribute Type: enum (upstream|downstream)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
   <direction>upstream</direction> <!-- operation="delete"-->
```

```
</test>
</tests>
</sat>
```

Command Syntax

```
direction (upstream|downstream)
```

Configure stream run

Used to set the stream run

Attribute Name: stream-run

Attribute Type: enum (parallel|one-by-one)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
   <stream-run>parallel</stream-run> <!-- operation="delete"-->
</test>
</tests>
</sat>
```

Command Syntax

```
stream-run (parallel|one-by-one)
```

Configure test type

SAT test

Attribute Name: test-type

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<service-tests>
<service-test> <!-- operation="delete"-->
   <test-type>cir</test-type>
   <config>
      <test-type>cir</test-type>
```

```
    </config>
</service-test>
</service-tests>
</test>
</tests>
</sat>
```

Command Syntax

```
service-test (cir|cir-eir|policing|performance|all)
```

Configure seconds

Set the time in terms of seconds

Attribute Name: seconds

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
    <test-name>NAME</test-name>
    <config>
        <test-name>WORD</test-name>
    </config>
<service-tests>
<service-test>
    <test-type>cir</test-type>
    <config>
        <test-type>cir</test-type>
        </duration><!-- operation="delete"-->
    </config>
        <seconds>1</seconds> <!-- operation="delete"-->
</service-test>
</service-tests>
</test>
</tests>
</sat>
```

Command Syntax

```
duration seconds <1-60>
```

Configure hours

Set the time in terms of hours

Attribute Name: hours

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: minutes

Attribute Type: uint8

Attribute Range: 1-60

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<service-tests>
<service-test>
   <test-type>cir</test-type>
   <config>
      <test-type>cir</test-type>
      </duration><!-- operation="delete"-->
      <minutes>1</minutes> <!-- operation="delete"-->
      <seconds>1</seconds> <!-- operation="delete"-->
   </config>
      <hours>1</hours> <!-- operation="delete"-->
</service-test>
</service-tests>
</test>
</tests>
</sat>
```

Command Syntax

```
duration hours <1-60> (minutes <1-60>|) (seconds <1-60>|)
```

Configure minutes

Set the time in terms of minutes

Attribute Name: minutes

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<service-tests>
<service-test>
   <test-type>cir</test-type>
   <config>
      <test-type>cir</test-type>
      </duration><!-- operation="delete"-->
      <seconds>1</seconds> <!-- operation="delete"-->
   </config>
      <minutes>1</minutes> <!-- operation="delete"-->
</service-test>
</service-tests>
</test>
</tests>
</sat>
```

Command Syntax

```
 duration minutes <1-60> (seconds <1-60>|)
```

Configure stream name

SAT test

Attribute Name: stream-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream> <!-- operation="delete"-->
   <stream-name>NAME</stream-name>
   <config>
```

```
        <stream-name>WORD</stream-name>
    </config>
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
service-stream NAME
```

Configure stream description

Used to set the description

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
    <test-name>NAME</test-name>
    <config>
        <test-name>WORD</test-name>
    </config>
<streams>
<stream>
    <stream-name>NAME</stream-name>
    <config>
        <stream-name>WORD</stream-name>
    </config>
        <description>LINE</description> <!-- operation="delete"-->
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
description LINE
```

Configure rate profile

Specify the rate profile

Attribute Name: rate-profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
      <rate-profile>NAME</rate-profile> <!-- operation="delete"-->
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
 rate-profile NAME
```

Configure acceptance profile

Specify the acceptance profile name

Attribute Name: acceptance-profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
      <acceptance-profile>NAME</acceptance-profile> <!-- operation="delete"-->
</stream>
```

```
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
acceptance-profile NAME
```

Configure frame size profile

Specify the frame size profile name

Attribute Name: frame-size-profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
      <frame-size-profile>NAME</frame-size-profile> <!-- operation="delete"-->
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
frame-size-profile NAME
```

Configure frame sequence

Specify the frame sequence

Attribute Name: frame-sequence

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
      <frame-sequence>SEQUENCE</frame-sequence> <!-- operation="delete"-->
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
 frame-sequence SEQUENCE
```

Configure frame data pattern

Specify the frame data pattern

Attribute Name: frame-data-pattern

Attribute Type: enum (null-sig|prbs)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
      <frame-data-pattern>null-sig</frame-data-pattern> <!-- operation="delete"-->
</stream>
</streams>
</test>
</tests>
```

```
</sat>
```

Command Syntax

```
frame-data-pattern (null-sig|prbs)
```

Configure frame delay disable

Use this attribute to disable frame delay

Attribute Name: frame-delay-disable

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
      </frame-delay-disable><!-- operation="delete"-->
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
frame-delay-disable
```

Configure tag type

This attribute is used to configure the tag type (dot1q|dot1ad).

Attribute Name: tag-type

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
   <frame-payload>
   <config>
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <tag-type>dot1q</tag-type> <!-- operation="delete"-->
   </config>
</frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
tag (dot1q|dot1ad) <1-4094> (inner-dot1q <1-4094>|)
```

Configure frame payload

Specify frame payload

Attribute Name: frame-payload

Attribute Type: empty

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
```

```
    </config>
    <frame-payload>
    <config>
           </frame-payload>
    </config>
</frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
frame-payload
```

Configure dst mac

Specify the destination MAC address

Attribute Name: dst-mac

Attribute Type: string

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
    <test-name>NAME</test-name>
    <config>
        <test-name>WORD</test-name>
    </config>
<streams>
<stream>
    <stream-name>NAME</stream-name>
    <config>
        <stream-name>WORD</stream-name>
    </config>
    <frame-payload>
    <config>
           <dst-mac>XXXX.XXXX.XXXX</dst-mac> <!-- operation="delete"-->
    </config>
</frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
dst-mac XXXX.XXXX.XXXX
```

Configure source interface

Specify the source interface name

Attribute Name: source-interface

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
   <frame-payload>
   <config>
         <source-interface>NAME</source-interface> <!-- operation="delete"-->
   </config>
</frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
source-interface NAME
```

Configure domain name

Specify the CFM domain name

Attribute Name: domain-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<tests>
<test>
   <test-name>NAME</test-name>
   <config>
      <test-name>WORD</test-name>
   </config>
<streams>
<stream>
   <stream-name>NAME</stream-name>
   <config>
      <stream-name>WORD</stream-name>
   </config>
   <frame-payload>
   <cfm>
   <config>
         <ma-name>NAME</ma-name>
         <mep-id>1</mep-id>
         <domain-name>NAME</domain-name>
   </config>
</cfm>
</frame-payload>
</stream>
</streams>
</test>
</tests>
</sat>
```

Command Syntax

```
cfm domain NAME ma NAME mepid <1-8191>
```

Configure data loopback

Use this attribute to set the ethernet data loopback for upstream/downstream

Attribute Name: data-loopback

Attribute Type: enum (upstream|downstream)

Netconf edit-config payload

```
<sat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <data-loopback>upstream</data-loopback> <!-- operation="delete"-->
```

```
</interface>
</interfaces>
</sat>
```

Command Syntax

```
ethernet data-loopback (upstream|downstream)
```

sat start NAME ((cir|cir-eir|policing|performance|all)|) (service-stream NAME|) ((repeat-last-fail-test|new-test)|)

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: sat-unit

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Default Value: all

Attribute Name: service-stream

Attribute Type: string

Default Value: NULL

Attribute Range: 1-32

Attribute Name: repeat-last-fail-test

Attribute Type: enum (repeat-last-fail-test|new-test)

Default Value: new-test

Netconf RPC payload

```
<service-activation-test-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sat">
<test-name>NAME</test-name>
<sat-unit>all</sat-unit>
<service-stream>NAME</service-stream>
<repeat-last-fail-test>new-test</repeat-last-fail-test>
</service-activation-test-start>
```

Command Syntax

```
sat start NAME ((cir|cir-eir|policing|performance|all)|) (service-stream NAME|)
  ((repeat-last-fail-test|new-test)|)
```

sat abort NAME ((cir|cir-eir|policing|performance|all)|) (service-stream NAME|)

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: sat-unit

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Default Value: all

Attribute Name: service-stream

Attribute Type: string

Default Value: NULL

Attribute Range: 1-32

Netconf RPC payload

```
       <service-activation-test-abort xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sat">
       <test-name>NAME</test-name>
       <sat-unit>all</sat-unit>
       <service-stream>NAME</service-stream>
       </service-activation-test-abort>
```

Command Syntax

```
    sat abort NAME ((cir|cir-eir|policing|performance|all)|) (service-stream NAME|)
```

sat clear NAME ((cir|cir-eir|policing|performance|all)|) (service-stream NAME|)

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: sat-unit

Attribute Type: enum (cir|cir-eir|policing|performance|all)

Default Value: all

Attribute Name: service-stream

Attribute Type: string

Default Value: 255

Attribute Range: 1-32

Netconf RPC payload

```
       <service-activation-test-clear xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sat">
       <test-name>NAME</test-name>
       <sat-unit>all</sat-unit>
       <service-stream>NAME</service-stream>
       </service-activation-test-clear>
```

Command Syntax

```
    sat clear NAME ((cir|cir-eir|policing|performance|all)|) (service-stream NAME|)
```

data-loopback start interface IFNAME timeout minutes <0-1440>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: timeout

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-1440

Netconf RPC payload

```
<data-loopback-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<interface-name>IFNAME</interface-name>
<timeout>0</timeout>
</data-loopback-start>
```

Command Syntax

```
data-loopback start interface IFNAME timeout minutes <0-1440>
```

data-loopback abort interface IFNAME timeout minutes <0-1440>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: timeout

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-1440

Netconf RPC payload

```
<data-loopback-abort xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sat">
<interface-name>IFNAME</interface-name>
<timeout>0</timeout>
</data-loopback-abort>
```

Command Syntax

```
data-loopback abort interface IFNAME timeout minutes <0-1440>
```

IPI-EDPL

Configure name

EDPL profile name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</profile>
</profiles>
</edpl>
```

Command Syntax

```
edpl profile NAME
```

Configure direction

Used to map the direction as upstream/downstream

Attribute Name: direction

Attribute Type: enum (upstream|downstream)

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <direction>upstream</direction> <!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
direction (upstream|downstream)
```

Configure dst mac

Specify the destination MAC address

Attribute Name: dst-mac

Attribute Type: string

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <dst-mac>XXXX.XXXX.XXXX</dst-mac> <!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
 destination-mac XXXX.XXXX.XXXX
```

Configure vlan id

Specify the VLAN Identifier

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 0-4095

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <vlan-id>0</vlan-id> <!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
 vlan <0-4095>
```

Configure ip swap

Enable ip swap

Attribute Name: ip-swap

Attribute Type: empty

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
```

```
<profiles>
<profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   </ip-swap><!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
ip-swap
```

Configure udp tcp port swap

Enable UDP/TCP port swap

Attribute Name: udp-tcp-port-swap

Attribute Type: empty

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   </udp-tcp-port-swap><!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
udp-tcp-port-swap
```

Configure source udp port

Specify the source udp port

Attribute Name: source-udp-port

Attribute Type: uint16

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
   <name>NAME</name>
   <config>
```

```
        <name>WORD</name>
      </config>
      <source-udp-port>0</source-udp-port>
   </profile>
   </profiles>
   </edpl>
```

Command Syntax

```
source-udp-port <0-65535>
```

Configure destination udp port

Specify the destination udp port

Attribute Name: destination-udp-port

Attribute Type: uint16

Netconf edit-config payload

```
   <edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
   <profiles>
   <profile>
      <name>NAME</name>
      <config>
         <name>WORD</name>
      </config>
      <destination-udp-port>0</destination-udp-port>
   </profile>
   </profiles>
   </edpl>
```

Command Syntax

```
destination-udp-port <0-65535>
```

Configure ethertype

Use this attribute to classify traffic based on the EtherType value

Attribute Name: ethertype

Attribute Type: string

Attribute Range: 5-6

Netconf edit-config payload

```
   <edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
   <profiles>
   <profile>
      <name>NAME</name>
      <config>
         <name>WORD</name>
      </config>
```

```
    <ethertype>WORD</ethertype> <!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
ethertype WORD
```

Configure address family

Use this attribute to specify address-family

Attribute Name: address-family

Attribute Type: enum (l2|ipv4|ipv6)

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
    <name>NAME</name>
    <config>
        <name>WORD</name>
    </config>
    <address-family>l2</address-family> <!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
address-family (l2|ipv4|ipv6)
```

Configure src ip

Specify the source ip address

Attribute Name: src-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
    <name>NAME</name>
    <config>
        <name>WORD</name>
    </config>
    <src-ip>A.B.C.D/X:X::X:X</src-ip> <!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
source-ip-address A.B.C.D/X:X::X:X
```

Configure dst ip

Specify the destination ip address

Attribute Name: dst-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<profiles>
<profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <dst-ip>A.B.C.D/X:X::X:X</dst-ip> <!-- operation="delete"-->
</profile>
</profiles>
</edpl>
```

Command Syntax

```
destination-ip-address A.B.C.D/X:X::X:X
```

Configure tests name

Specifies EDPL test name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<tests>
<test> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</test>
</tests>
</edpl>
```

Command Syntax

```
edpl test NAME
```

Configure source port

Specify the source port name

Attribute Name: source-port

Attribute Type: string

Attribute Range: 1-32

Attribute Name: l2-port

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<tests>
<test>
   <name>NAME</name>
   <config>
      <name>WORD</name>
      <l2-port>NAME</l2-port> <!-- operation="delete"-->
   </config>
   <source-port>NAME</source-port> <!-- operation="delete"-->
</test>
</tests>
</edpl>
```

Command Syntax

```
 source-port NAME (l2-port NAME|)
```

Configure profile

Specify the EDPL profile filter name

Attribute Name: profile

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<tests>
<test>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <profile>NAME</profile> <!-- operation="delete"-->
</test>
</tests>
</edpl>
```

Command Syntax

```
edpl-profile NAME
```

Configure hours

Set the test time in terms of hours

Attribute Name: hours

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: minutes

Attribute Type: uint8

Attribute Range: 1-60

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<tests>
<test>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<timer>
<config>
       </duration><!-- operation="delete"-->
       <minutes>1</minutes> <!-- operation="delete"-->
       <seconds>1</seconds> <!-- operation="delete"-->
       <hours>1</hours> <!-- operation="delete"-->
</config>
</timer>
</test>
</tests>
</edpl>
```

Command Syntax

```
duration hours <1-60> (minutes <1-60>|) (seconds <1-60>|)
```

Configure minutes

Set the test time in terms of minutes

Attribute Name: minutes

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Attribute Name: seconds

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<tests>
<test>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<timer>
<config>
       </duration><!-- operation="delete"-->
       <seconds>1</seconds> <!-- operation="delete"-->
       <minutes>1</minutes> <!-- operation="delete"-->
</config>
</timer>
</test>
</tests>
</edpl>
```

Command Syntax

```
 duration minutes <1-60> (seconds <1-60>|)
```

Configure seconds

Set the test time in terms of seconds

Attribute Name: seconds

Attribute Type: uint8

Attribute Name: duration

Attribute Type: empty

Netconf edit-config payload

```
<edpl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<tests>
<test>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<timer>
<config>
       </duration><!-- operation="delete"-->
```

```
        <seconds>1</seconds> <!-- operation="delete"-->
    </config>
    </timer>
    </test>
    </tests>
    </edpl>
```

Command Syntax

```
duration seconds <1-60>
```

edpl (start|stop) NAME

Attribute Name: edpl-action

Attribute Type: enum (start|stop)

Attribute Name: test-name

Attribute Type: string

Attribute Range: 1-32

Netconf RPC payload

```
<edpl-test-execute xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-edpl">
<edpl-action>start</edpl-action>
<test-name>NAME</test-name>
</edpl-test-execute>
```

Command Syntax

```
edpl (start|stop) NAME
```

IPI-MANAGEMENT-SERVER-NOTIFICATION

Configure severity

If notification enabled, all the notifications having severity higher than or equal to this severity allowed.If notification disabled, all the notifications having severity lower than or equal to this severity not allowed

Attribute Name: severity

Attribute Type: enum (all|info|warning|minor|major|critical)

Default Value: all

Attribute Name: enable

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
    <management-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-
server">
    <module-notifications>
    <module-notification>
```

```
      <module-name>auth</module-name>
      <config>
         <module-name>auth</module-name>
         <enable>enable</enable>
      </config>
      <severity>all</severity>
   </module-notification>
   </module-notifications>
   </management-server>
```

Command Syntax

```
    module
      (auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrib|nsm|onm|oam|ospf|ospf6|ptp
      |rip|pim|rib|vrrp|sflow|rsvp|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)
      notification (disable|enable) (severity (all|info|warning|minor|major|critical)|)
```

IPI-VRF

Configure instance name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>vrf</instance-type>
      <config>
         <instance-type>vrf</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <vrf>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
ip vrf WORD
```

Configure instance type

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>mac-vrf</instance-type>
      <config>
         <instance-type>mac-vrf</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <vrf>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mac vrf WORD
```

Configure description

VRF-specific description

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
```

```
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
       <config>
              <description>LINE</description> <!-- operation="delete"-->
       </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
description LINE
```

Configure tunnel select policy

tunnel policy to be configured

Attribute Name: tunnel-select-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
            <tunnel-select-policy>NAME</tunnel-select-policy> <!--
operation="delete"-->
      </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
tunnel-select-policy NAME
```

Configure lsp encap dscp preserve

Enable or disable dscp preserve on the VRF

Attribute Name: lsp-encap-dscp-preserve

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
            <lsp-encap-dscp-preserve>enable</lsp-encap-dscp-preserve> <!--
operation="delete"-->
      </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls lsp-encap-dscp-preserve (enable|disable)
```

Configure router id

VRF Router ID

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
            <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
      </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    router-id A.B.C.D
```

Configure evpn layer3 network id

L3 EVPN Identifier

Attribute Name: evpn-layer3-network-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
            <evpn-layer3-network-id>1</evpn-layer3-network-id> <!--
operation="delete"-->
      </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 l3vni <1-16777215>
```

Configure mtu

This attribute is used to confiure the MTU on VRF

Attribute Name: mtu

Attribute Type: uint32

Attribute Range: 64-65535

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <config>
```

```
            <mtu>64</mtu> <!-- operation="delete"-->
       </config>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mtu <64-65535>
```

Configure snmp context name

Use this attribute to set the SNMP context for VRF.

This command is supported when following feature are enabled SNMP feature

Attribute Name: snmp-context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <snmp>
      <config>
            <snmp-context-name>WORD</snmp-context-name> <!-- operation="delete"-->
      </config>
   </snmp>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
snmp context-name WORD
```

clear router-id

Netconf RPC payload

```
      <clear-default-router-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf"/>
```

Command Syntax

```
clear router-id
```

clear router-id vrf (VRFNAME|)

Attribute Name: vrfName

Attribute Type: string

Netconf RPC payload

```
<clear-vrf-router-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
<vrfName>VRFNAME</vrfName>
</clear-vrf-router-id>
```

Command Syntax

```
clear router-id vrf (VRFNAME|)
```

IPI-INTERFACE

Configure name

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-49

Attribute Name: enable-switchport

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
      </enable-switchport>
   </config>
</interface>
</interfaces>
```

Command Syntax

```
interface IFNAME (switchport|)
```

Configure enable switchport

This attribute is used to set the mode of the Hybrid Switch Router feature to switched only.All interfaces are configured routed by default

Attribute Name: enable-switchport

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   </enable-switchport><!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 switchport
```

Configure vrf name

This attribute is used to associates an interface with a VRF

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 ip vrf forwarding WORD
```

Configure vr name

This attribute is used to associates an interface with a VR

Attribute Name: vr-name

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <vr-name>WORD</vr-name> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 virtual-router forwarding WORD
```

Configure mtu

This attribute is used to set mtu value to interface.The size of the largest packet which can be sent/received on the interface, specified in octets. For interfaces that are used for transmitting network datagrams, this is the size of the largest network datagram that can be sent on the interface.

Attribute Name: mtu

Attribute Type: uint32

Attribute Range: 64-65535

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <mtu>64</mtu> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 mtu <64-65535>
```

Configure dot1ad ether type

This attribute is used to configure the ethertype value for the interface in the format 0xhhhh. Currently supported values are 0x8100 (default) or 0x88a8 or 0x9100 or 0x9200.

Attribute Name: dot1ad-ether-type

Attribute Type: string

Attribute Range: 6-6

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
```

```
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <dot1ad-ether-type>ETHERTYPE</dot1ad-ether-type> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 dot1ad ethertype ETHERTYPE
```

Configure domain fastflush config

Attribute to change domain fastflush value

Attribute Name: domain-fastflush-config

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   </domain-fastflush-config><!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 switchport fastflush
```

Configure bridge domain forward

Attribute to change domain forward value

Attribute Name: bridge-domain-forward

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   </bridge-domain-forward><!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
bridge-domain forward
```

Configure phy link training

This attribute is used to enable port link training

Attribute Name: phy-link-training

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <phy-link-training>disable</phy-link-training> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
phy link-training (disable|enable)
```

Configure phy dfe

This attribute is used to enable port decision feedback equalizer(dfe)

Attribute Name: phy-dfe

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <phy-dfe>disable</phy-dfe> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
phy dfe (disable|enable)
```

Configure phy unreliable los

This attribute is used to enable port unreliable loss of signal(los)

Attribute Name: phy-unreliable-los

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <phy-unreliable-los>disable</phy-unreliable-los> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 phy unreliable-los (disable|enable)
```

Configure phy media

This attribute is used to set the media type for the interface

Attribute Name: phy-media

Attribute Type: enum (copper|backplane|optics)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <phy-media>copper</phy-media> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 phy media (copper|backplane|optics)
```

Configure description

Use this attribute to set description for the interface

Attribute Name: description

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
```

```
    <config>
       <name>IFNAME</name>
    </config>
    <description>1</description> <!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 description LINE
```

Configure shutdown

Use this attribute to enable the selected interface. This leaf contains the configured, desired state of the interface. The testing(3) state indicates that no operational packets can be passed. When a managed system initializes, all interfaces start with ifAdminStatus in the down(2) state. As a result of either explicit management action or per configuration information retained by the managed system, ifAdminStatus is then changed to either the up(1) or testing(3) states (or remains in the down(2) state).

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
       <name>IFNAME</name>
    </config>
    </shutdown><!-- operation="delete"-->
</interface>
</interfaces>
```

Command Syntax

```
 shutdown
```

Configure if loopback

This attribute is used to enable port loopback

Attribute Name: if-loopback

Attribute Type: enum (tx|rx)

Attribute Name: if-loopback-level

Attribute Type: enum (mac|phy)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
```

```
        <name>IFNAME</name>
      </config>
   <interface-loopback>
   <config>
        <if-loopback-level>mac</if-loopback-level>
        <if-loopback>tx</if-loopback>
   </config>
   </interface-loopback>
   </interface>
   </interfaces>
```

Command Syntax

```
    loopback (tx|rx) (mac|phy)
```

clear interface (IFNAME|) counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
      <clear-interface-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
interface">
      <name>IFNAME</name>
      </clear-interface-counters>
```

Command Syntax

```
    clear interface (IFNAME|) counters
```

IPI-GLOBAL-TE

Configure id

identifier value for the administrative group

Attribute Name: id

Attribute Type: uint8

Attribute Range: 0-31

Netconf edit-config payload

```
   <admin-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-global-te">
   <admin-group> <!-- operation="delete"-->
      <id>0</id>
      <config>
         <id>0</id>
         <name>NAME</name>
      </config>
      <name>NAME</name>
```

```
</admin-group>
</admin-groups>
```

Command Syntax

```
admin-group NAME <0-31>
```

Configure name

identifier value for the extended administrative group

Attribute Name: id

Attribute Type: uint32

Attribute Range: 32-95

Netconf edit-config payload

```
<extended-admin-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-global-te">
<extended-admin-group> <!-- operation="delete"-->
   <id>32</id>
   <config>
      <id>32</id>
      <name>NAME</name>
   </config>
   <name>NAME</name>
</extended-admin-group>
</extended-admin-groups>
```

Command Syntax

```
extended-admin-group NAME <32-95>
```

Configure srlg-maps id

identifier value for the SRLG map

Attribute Name: id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<srlg-maps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-global-te">
<srlg-map> <!-- operation="delete"-->
   <id>1</id>
   <config>
      <id>1</id>
      <name>NAME</name>
   </config>
   <name>NAME</name>
</srlg-map>
</srlg-maps>
```

Command Syntax

```
srlg-map NAME <1-65535>
```

IPI-IF-ETHERNET

Configure duplex mode

Use this attribute to set the duplex mode for the interface. Auto-negotiation if enabled, is turned off when duplex mode is set for the interface. When auto-negotiation is enabled, the interface should negotiate the duplex mode directly (typically full-duplex).

Attribute Name: duplex-mode

Attribute Type: enum (half|full)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
   <config>
         <duplex-mode>half</duplex-mode> <!-- operation="delete"-->
   </config>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
duplex (half|full)
```

Configure secondary mac address

Use this attribute to set the secondary mac address for an interface to terminate L3 packets.

Attribute Name: secondary-mac-address

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
   <config>
```

```
            </secondary-mac-address><!-- operation="delete"-->
      </config>
   </ethernet>
   </interface>
   </interfaces>
```

Command Syntax

```
mac-address secondary peer-mlag
```

Configure port speed

This attribute is used to set the link speed for the interface. To enable auto-negotiation for the interface, set this attribute to value auto. When auto-negotiation is enabled, it is expected that the interface will select the highest speed available based on negotiation. When auto-negotiation is not enabled, sets the link speed to a fixed value -- supported values are defined by IF_INTERFACE_SPEED_T enum. When limited auto-negotiation is required, select the speed after the auto option. With this only the specified speed will be advertised and interface will negotiate with peer with that speed only.

Attribute Name: port-speed

Attribute Type: enum (10m|100m|1g|2.5g|10g|20g|25g|40g|50g|100g|200g|400g|auto|auto 10m|auto 100m|auto 1g)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
   <config>
         <port-speed>10m</port-speed> <!-- operation="delete"-->
   </config>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
speed (10m|100m|1g|2.5g|10g|20g|25g|40g|50g|100g|200g|400g|auto|auto 10m|auto
  100m|auto 1g)
```

Configure enable rcv

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled L2 feature

Attribute Name: name

Attribute Type: string

Attribute Name: enable-rcv

Attribute Type: enum (off|on)

Attribute Name: enable-snd

Attribute Type: enum (off|on)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<ethernet>
<flow-control>
<config>
   <enable-rcv>off</enable-rcv>
      <enable-snd>off</enable-snd>
   </config>
</flow-control>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
 flowcontrol both
```

Configure enable rcv

This attribute is used to show flow control on receive

This command is supported when following feature are enabled L2 feature

Attribute Name: enable-rcv

Attribute Type: enum (off|on)

Default Value: off

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
   <flow-control>
   <config>
```

```
            <enable-rcv>off</enable-rcv> <!-- operation="delete"-->
      </config>
   </flow-control>
   </ethernet>
   </interface>
   </interfaces>
```

Command Syntax

```
flowcontrol receive (off|on)
```

Configure enable snd

This attribute is used to show flow control on send

This command is supported when following feature are enabled L2 feature

Attribute Name: enable-snd

Attribute Type: enum (off|on)

Default Value: off

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
   <flow-control>
   <config>
          <enable-snd>off</enable-snd> <!-- operation="delete"-->
   </config>
</flow-control>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
flowcontrol send (off|on)
```

IPI-IF-IP

Configure primary ip addr

Use this attribute to specify that an IP address and prefix length will be used by this interface. If the secondary parameter is not specified, this attribute overwrites the primary IP address. If the secondary parameter is specified, this attribute adds a new IP address to the interface. The secondary address cannot be configured in the absence of a primary IP address. The primary address cannot be removed when a secondary address is present.

Attribute Name: primary-ip-addr

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
            <primary-ip-addr>A.B.C.D/M|A.B.C.D A.B.C.D</primary-ip-addr> <!--
operation="delete"-->
      </config>
   </ipv4>
   </interface>
   </interfaces>
```

Command Syntax

```
    ip address (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure enable dhcp ip address

Use this attribute to specify that a DHCP client will be used to obtain an IP address for an interface.

Attribute Name: enable-dhcp-ip-address

Attribute Type: empty

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
            </enable-dhcp-ip-address><!-- operation="delete"-->
      </config>
   </ipv4>
   </interface>
   </interfaces>
```

Command Syntax

```
    ip address dhcp
```

Configure ip addr label

Label of this address.

Attribute Name: ip-addr-label

Attribute Type: string

Default Value: NULL

Attribute Name: primary-ip-addr

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
            <primary-ip-addr>A.B.C.D/M|A.B.C.D A.B.C.D</primary-ip-addr> <!--
operation="delete"-->
            <ip-addr-label>LINE</ip-addr-label> <!-- operation="delete"-->
      </config>
   </ipv4>
   </interface>
   </interfaces>
```

Command Syntax

```
    ip address (A.B.C.D/M|A.B.C.D A.B.C.D) label LINE
```

Configure ipv4 unnumbered if name

This attribute is used to Enable IP processing without an explicit address

Attribute Name: ipv4-unnumbered-if-name

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
            <ipv4-unnumbered-if-name>IFNAME</ipv4-unnumbered-if-name> <!--
operation="delete"-->
      </config>
```

```
</ipv4>
</interface>
</interfaces>
```

Command Syntax

```
ip unnumbered IFNAME
```

Configure remote address

This attribute is used to set the remote address of the PPP link

Attribute Name: remote-address

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
   <config>
         <remote-address>A.B.C.D/M</remote-address> <!-- operation="delete"-->
   </config>
</ipv4>
</interface>
</interfaces>
```

Command Syntax

```
ip remote-address A.B.C.D/M
```

Configure primary anycast

Use this attribute to set the anycast flag for the IPv4 primary address of an interface.

Attribute Name: primary-anycast

Attribute Type: empty

Attribute Name: primary-ip-addr

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
```

```
      <config>
            <primary-ip-addr>A.B.C.D/M|A.B.C.D A.B.C.D</primary-ip-addr> <!--
operation="delete"-->
            </primary-anycast><!-- operation="delete"-->
      </config>
   </ipv4>
   </interface>
   </interfaces>
```

Command Syntax

```
    ip address (A.B.C.D/M|A.B.C.D A.B.C.D) anycast
```

Configure ip address

Use this attribute to specify a secondary IP address that will be used by this interface. The secondary address cannot be configured in the absence of a primary IP address. The primary address cannot be removed when a secondary address is present.

Attribute Name: ip-address

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <secondary-addresses> <!-- operation="delete"-->
         <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
         <config>
            <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
         </config>
      </secondary-addresses>
   </ipv4>
   </interface>
   </interfaces>
```

Command Syntax

```
    ip address (A.B.C.D/M|A.B.C.D A.B.C.D) secondary
```

Configure ip label

Use this attribute to specify a descriptive label for this IPv4 address.

Attribute Name: ip-label

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
   <secondary-addresses>
      <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
      <config>
         <ip-address>A.B.C.D/M</ip-address>
      </config>
         <ip-label>LINE</ip-label> <!-- operation="delete"-->
   </secondary-addresses>
</ipv4>
</interface>
</interfaces>
```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D) secondary label LINE
```

Configure secondary anycast

Use this attribute to set the anycast flag for the IPv4 secondary address of an interface.

Attribute Name: secondary-anycast

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
   <secondary-addresses>
      <ip-address>A.B.C.D/M|A.B.C.D A.B.C.D</ip-address>
      <config>
         <ip-address>A.B.C.D/M</ip-address>
      </config>
         </secondary-anycast><!-- operation="delete"-->
   </secondary-addresses>
</ipv4>
</interface>
</interfaces>
```

Command Syntax

```
ip address (A.B.C.D/M|A.B.C.D A.B.C.D) secondary anycast
```

Configure enable auto config

Use this attribute to enable autoconfiguration of IPv6 address in host interface. IPv6 address are formed using the Prefix learned from RA and suffix formed using EUI-64 method.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: enable-auto-config

Attribute Type: boolean

Attribute Name: max-autoconfig-address

Attribute Type: uint8

Attribute Range: 1-64

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
            <max-autoconfig-address>1</max-autoconfig-address> <!--
operation="delete"-->
            <enable-auto-config>true</enable-auto-config> <!-- operation="delete"-->
      </config>
   </ipv6>
   </interface>
   </interfaces>
```

Command Syntax

```
    ipv6 address autoconfig (max-address <1-64>|)
```

Configure ipv6 unnumbered if name

Use this attribute to enable IP processing without an explicit address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-unnumbered-if-name

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
```

```
       <config>
             <ipv6-unnumbered-if-name>IFNAME</ipv6-unnumbered-if-name> <!--
operation="delete"-->
       </config>
   </ipv6>
   </interface>
   </interfaces>
```

Command Syntax

```
    ipv6 unnumbered IFNAME
```

Configure enable dhcp ipv6 address

Use this attribute to specify that a DHCP client will be used to obtain an IP address for an interface.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: enable-dhcp-ipv6-address

Attribute Type: empty

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
             </enable-dhcp-ipv6-address><!-- operation="delete"-->
      </config>
   </ipv6>
   </interface>
   </interfaces>
```

Command Syntax

```
    ipv6 address dhcp
```

Configure enable dhcp temporary ipv6 address

Use this attribute to specify that a DHCP client will be used to obtain an temporary IP address for an interface.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: enable-dhcp-temporary-ipv6-address

Attribute Type: empty

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
```

```
      <config>
         <name>IFNAME</name>
      </config>
      <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
            </enable-dhcp-temporary-ipv6-address><!-- operation="delete"-->
      </config>
   </ipv6>
   </interface>
   </interfaces>
```

Command Syntax

```
    ipv6 address dhcp temporary
```

Configure dhcp address prefix length

Use this attribute to configure the prefix length for the dynamically learnt ipv6 address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dhcp-address-prefix-length

Attribute Type: uint8

Attribute Range: 1-128

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
      <config>
            <dhcp-address-prefix-length>1</dhcp-address-prefix-length> <!--
operation="delete"-->
      </config>
   </ipv6>
   </interface>
   </interfaces>
```

Command Syntax

```
    ipv6 dhcp address-prefix-length <1-128>
```

Configure ipv6 address

Use this attribute to set the IPv6 address of an interface

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
   <addresses> <!-- operation="delete"-->
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
         <ipv6-address>X:X::X:X/M</ipv6-address>
      </config>
   </addresses>
</ipv6>
</interface>
</interfaces>
```

Command Syntax

```
 ipv6 address X:X::X:X/M
```

Configure anycast

Use this attribute to set the anycast flag for the IPv6 address of an interface. Anycast flag cannot be deleted for an IPv6 address once set. Please delete IPv6 address and reconfigure to remove anycast property.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: anycast

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ipv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
   <addresses>
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
         <ipv6-address>X:X::X:X/M</ipv6-address>
      </config>
         </anycast><!-- operation="delete"-->
   </addresses>
</ipv6>
</interface>
</interfaces>
```

Command Syntax

```
ipv6 address X:X::X:X/M anycast
```

Configure disable ip forwarding

Enable IP forwarding for the router

Attribute Name: disable-ip-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
<config>
   </disable-ip-forwarding><!-- operation="delete"-->
</config>
</ip-global>
```

Command Syntax

```
no ip forwarding
```

Configure disable ipv6 forwarding

Enable IPv6 forwarding for the router

Attribute Name: disable-ipv6-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
<config>
   </disable-ipv6-forwarding><!-- operation="delete"-->
</config>
</ip-global>
```

Command Syntax

```
no ipv6 forwarding
```

Configure router id

Router id of the router - an unsigned 32-bit integer expressed in dotted quad notation

Attribute Name: router-id

Attribute Type: string

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
<config>
   <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</config>
```

```
</ip-global>
```

Command Syntax

```
router-id A.B.C.D
```

Configure enable auto router id selection

Turn on Automatic Selection of Router ID

Attribute Name: enable-auto-router-id-selection

Attribute Type: empty

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
<config>
   </enable-auto-router-id-selection><!-- operation="delete"-->
</config>
</ip-global>
```

Command Syntax

```
automatic-router-id-selection enable
```

Configure default vrf enable icmp broadcast

This attribute is used to control ICMP echo broadcast reply. It ignores ICMP echo broacast when set to true

Attribute Name: default-vrf-enable-icmp-broadcast

Attribute Type: empty

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
<config>
   </default-vrf-enable-icmp-broadcast><!-- operation="delete"-->
</config>
</ip-global>
```

Command Syntax

```
ip icmp-broadcast
```

Configure disable ip vrf forwarding

Turn on IP forwarding for the VRF instance

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: disable-ip-vrf-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
```

```
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   </disable-ip-vrf-forwarding><!-- operation="delete"-->
</vrf>
</ip-global>
```

Command Syntax

```
 no ip forwarding vrf NAME
```

Configure disable ipv6 vrf forwarding

Turn on IPv6 forwarding for the VRF instance

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: disable-ipv6-vrf-forwarding

Attribute Type: uint8

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   </disable-ipv6-vrf-forwarding><!-- operation="delete"-->
</vrf>
</ip-global>
```

Command Syntax

```
 no ipv6 forwarding vrf NAME
```

Configure enable icmp broadcast

This attribute is used to control ICMP echo broadcast reply for VRF instance. It ignores ICMP echo broacast when set to true

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: enable-icmp-broadcast

Attribute Type: empty

Netconf edit-config payload

```
<ip-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ip">
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
```

```
    </config>
    </enable-icmp-broadcast><!-- operation="delete"-->
</vrf>
</ip-global>
```

Command Syntax

```
ip icmp-broadcast vrf NAME
```

IPI-IF-EXTENDED

Configure group index

This attribute specifies the port group number

This command is supported when following feature are enabled dune feature,hal feature and following feature are disabled swfwdr feature

Attribute Name: group-index

Attribute Type: uint8

Attribute Range: 1-64

Attribute Name: group-speed

Attribute Type: enum (1g|10g|25g|40g|50g|100g)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<port-group-speed-map> <!-- operation="delete"-->
    <group-index>1</group-index>
    <config>
        <group-index>1</group-index>
        <group-speed>1g</group-speed>
    </config>
</port-group-speed-map>
</interfaces>
```

Command Syntax

```
port-group <1-64> speed (1g|10g|25g|40g|50g|100g)
```

Configure protected port

Attribute to change port protectedtype value

Attribute Name: protected-port

Attribute Type: enum (community|isolated|promiscuous)

Default Value: promiscuous

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
```

```
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
         <protected-port>promiscuous</protected-port>
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
switchport protected (isolated|promiscuous)
```

Configure name

Attribute to change port protectedtype value

Attribute Name: protected-port

Attribute Type: enum (community|isolated|promiscuous)

Default Value: promiscuous

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
         <protected-port>promiscuous</protected-port>
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
switchport protected (community|isolated|promiscuous)
```

Configure extended protected-port

Attribute to change port protectedtype value

Attribute Name: protected-port

Attribute Type: enum (community|isolated|promiscuous)

Default Value: promiscuous

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          <protected-port>promiscuous</protected-port>
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
switchport protected (community|promiscuous)
```

Configure link flap error disable

This object specifies whether the interface is enabled for link-flap error-disable or not. If this is ’0’, then interface is not enabled. Otherwise it is enabled.

Attribute Name: link-flap-error-disable

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          </link-flap-error-disable><!-- operation="delete"-->
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
no link-flap errdisable
```

Configure storm control error disable

This attribute specifies whether the interface is enabled for storm-control error-disable or not. If this is not set, then the interface is not enabled. Otherwise it is enabled.

Attribute Name: storm-control-error-disable

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
         </storm-control-error-disable><!-- operation="delete"-->
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 no storm-control errdisable
```

Configure mac move limit error disable

This object specifies whether the interface is enabled for mac-move-limit error-disable or not. If this is ’0’, then interface is not enabled. Otherwise it is enabled.

Attribute Name: mac-move-limit-error-disable

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
         </mac-move-limit-error-disable><!-- operation="delete"-->
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 no mac-move-limit errdisable
```

Configure disable snmp trap link status

This Object is used to set the snmp trap link status in an interface

Attribute Name: disable-snmp-trap-link-status

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          </disable-snmp-trap-link-status><!-- operation="delete"-->
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
no snmp trap link-status
```

Configure mac move priority

This object used to set the priority of mac-move of an interface

Attribute Name: mac-move-priority

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          <mac-move-priority>1</mac-move-priority> <!-- operation="delete"-->
   </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
mac-move-limit priority <1-255>
```

Configure mau default type

This attribute is used to set the mau type in an interface

Attribute Name: mau-default-type

Attribute Type: enum (dot3MauType10BaseTHD|dot3MauType10BaseTFD|dot3MauType100BaseTXHD|dot3MauType100BaseTXFD|dot3MauType1000BaseXHD|dot3MauType1000BaseXFD|dot3MauType10GigBaseCX4|dot3MauType10GbaseKX4|dot3MauType10GbaseKR|dot3MauType40GbaseCR4)

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
            <mau-default-type>dot3MauType10BaseTHD</mau-default-type> <!--
operation="delete"-->
      </config>
   </extended>
   </interface>
   </interfaces>
```

Command Syntax

```
    mau-default-type
      (dot3MauType10BaseTHD|dot3MauType10BaseTFD|dot3MauType100BaseTXHD|dot3MauType100
      BaseTXFD|dot3MauType1000BaseXHD|dot3MauType1000BaseXFD|dot3MauType10GigBaseCX4|d
      ot3MauType10GbaseKX4|dot3MauType10GbaseKR|dot3MauType40GbaseCR4)
```

Configure debounce time

Use this attribute to set the interface debounce timer value

Attribute Name: debounce-time

Attribute Type: uint16

Attribute Range: 0-5000

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
            <debounce-time>0</debounce-time> <!-- operation="delete"-->
```

```
    </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
debounce-time <0-5000>
```

Configure raon aodu port

To enable RAON AODU connectivity over physical port.

Attribute Name: raon-aodu-port

Attribute Type: enum (enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
           <raon-aodu-port>enable</raon-aodu-port> <!-- operation="delete"-->
    </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
raon (enable)
```

Configure ucmp port

To enable UCMP support.

Attribute Name: ucmp-port

Attribute Type: enum (enable)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
           <ucmp-port>enable</ucmp-port> <!-- operation="delete"-->
```

```
    </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
ucmp (enable)
```

Configure revertive timer

Use this attribute to set the timer for MC-LAG switchover revertive ty. Default switchover type is revertive 10s.

Attribute Name: revertive-timer

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
           <revertive-timer>1</revertive-timer> <!-- operation="delete"-->
    </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
raon ip-switchover type revertive <1-255>
```

Configure enable non revertive

Use this attribute to set the MC-LAG switchover to non-revertive type. Do not switch back to the initially-active node after failure recovery. Default switchover type is revertive 10s.

Attribute Name: enable-non-revertive

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
```

```
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <config>
           </enable-non-revertive><!-- operation="delete"-->
    </config>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
raon ip-switchover type non-revertive
```

Configure enable re routing

Enable re-routing when the bandwidth crosses down the minimum bandwidth

Attribute Name: enable-re-routing

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <bandwidth-management>
    <config>
           </enable-re-routing><!-- operation="delete"-->
    </config>
</bandwidth-management>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
re-routing
```

Configure enable speed

This object is used to enable port-monitoring for the specified parameters, average speed of the interface

Attribute Name: enable-speed

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
```

```
    <config>
       <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <port-monitor>
    <config>
          </enable-speed><!-- operation="delete"-->
    </config>
</port-monitor>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
monitor speed
```

Configure enable queue drops

This object is used to enable queue-drops of the interface

Attribute Name: enable-queue-drops

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <port-monitor>
   <config>
          </enable-queue-drops><!-- operation="delete"-->
   </config>
</port-monitor>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
monitor queue-drops
```

Configure enable pfc mon

This object is used to enable PFC-monitoring of the interface

Attribute Name: enable-pfc-mon

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <port-monitor>
   <config>
          </enable-pfc-mon><!-- operation="delete"-->
   </config>
</port-monitor>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 monitor pfc
```

Configure enable ecn mon

This object is used to enable PFC-monitoring of the interface

Attribute Name: enable-ecn-mon

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <port-monitor>
   <config>
          </enable-ecn-mon><!-- operation="delete"-->
   </config>
</port-monitor>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 monitor ecn
```

Configure warning threshold

This object is used to specify warning threshold for port speed monitor. Warning threshold must be greater than recovery threshold. Default value of warning-threshold is 90.

Attribute Name: warning-threshold

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: recovery-threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <port-monitor>
   <port-monitor-threshold>
   <config>
          <recovery-threshold>1</recovery-threshold>
          <warning-threshold>1</warning-threshold>
   </config>
</port-monitor-threshold>
</port-monitor>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 monitor speed threshold warning <1-100> recovery <1-100>
```

Configure subif service queue

This attribute specifies the sub interface queue type

This command is supported when following feature are enabled subinterface feature

Attribute Name: subif-service-queue

Attribute Type: enum (physical|flow-id)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
```

```
          <name>IFNAME</name>
       </config>
       <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
       <service-queue>
       <config>
             <subif-service-queue>physical</subif-service-queue> <!--
operation="delete"-->
       </config>
   </service-queue>
   </extended>
   </interface>
   </interfaces>
```

Command Syntax

```
    service-queue (physical|flow-id)
```

Configure aclif type

Use this attribute to set the Hardware timestamp

Attribute Name: aclif-type

Attribute Type: enum (failover|no-failover)

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <aclif>
      <config>
             <aclif-type>failover</aclif-type> <!-- operation="delete"-->
      </config>
   </aclif>
   </extended>
   </interface>
   </interfaces>
```

Command Syntax

```
    aclif (failover|no-failover)
```

Configure encap default

Use this attribute to configure encapsulation as default

This command is supported when following feature are enabled subinterface feature

Attribute Name: encap-default

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <subinterface-encapsulation>
   <config>
          </encap-default><!-- operation="delete"-->
   </config>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 encapsulation default
```

Configure encap untagged

Use this attribute to configure encapsulation as untagged

This command is supported when following feature are enabled subinterface feature

Attribute Name: encap-untagged

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <subinterface-encapsulation>
   <config>
          </encap-untagged><!-- operation="delete"-->
   </config>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 encapsulation untagged
```

Configure vlan action

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: push-tpid

Attribute Type: union

Attribute Name: push-outer-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
   <vlan-action>pop</vlan-action>
      <push-tpid>dot1q</push-tpid>
         <push-outer-vlan-id>1</push-outer-vlan-id>
      </config>
   </rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 rewrite (push) (dot1q|dot1ad|TPID) <1-4094>
```

Configure push tpid

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: push-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: push-outer-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: push-inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
   <vlan-action>pop</vlan-action>
      <push-tpid>dot1q</push-tpid>
         <push-outer-vlan-id>1</push-outer-vlan-id>
            <push-inner-vlan-id>inner-dot1q</push-inner-vlan-id>
         </config>
      </rewrite>
   </subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite (push) (dot1q|dot1ad) <1-4094> inner-dot1q <1-4094>
```

Configure rewrite translate action

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: union

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
   <vlan-action>pop</vlan-action>
      <rewrite-translate-action>1-to-1</rewrite-translate-action>
         <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
            <outer-vlan-id>0</outer-vlan-id>
         </config>
      </rewrite>
   </subinterface-encapsulation>
</extended>
</interface>
```

```
</interfaces>
```

Command Syntax

```
 rewrite (translate) (1-to-1) (dot1q|dot1ad|TPID) <0-4094>
```

Configure dot1q dot1ad tpid

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Attribute Name: i-dot1q-dot1ad-tpid

Attribute Type: union

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
   <vlan-action>pop</vlan-action>
```

```
        <rewrite-translate-action>1-to-1</rewrite-translate-action>
           <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
              <outer-vlan-id>0</outer-vlan-id>
                 <i-dot1q-dot1ad-tpid>dot1q</i-dot1q-dot1ad-tpid>
                    <inner-vlan-id>1</inner-vlan-id>
                 </config>
              </rewrite>
           </subinterface-encapsulation>
        </extended>
     </interface>
  </interfaces>
```

Command Syntax

```
rewrite (translate) (1-to-2) (dot1q|dot1ad) <0-4094> (dot1q|TPID) <1-4094>
```

Configure outer vlan id

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Attribute Name: i-dot1q-dot1ad-tpid

Attribute Type: enum (dot1q)

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
```

```
<interface> <!-- operation="delete"-->
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
    <vlan-action>pop</vlan-action>
        <rewrite-translate-action>1-to-1</rewrite-translate-action>
            <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
                <outer-vlan-id>0</outer-vlan-id>
                    <i-dot1q-dot1ad-tpid>dot1q</i-dot1q-dot1ad-tpid>
                        <inner-vlan-id>1</inner-vlan-id>
                    </config>
                </rewrite>
            </subinterface-encapsulation>
        </extended>
    </interface>
</interfaces>
```

Command Syntax

```
 rewrite (translate) (2-to-2) (dot1q|dot1ad) <0-4094> (dot1q) <1-4094>
```

Configure interfaces name

The textual name of the interface. The value of this object should be the name of the interface as assigned by the local device and should be suitable for use in commands entered at the device's 'console'. This might be a text name, such as 'le0' or a simple port number, such as '1', depending on the interface naming syntax of the device. If several entries in the ifTable together represent a single interface as named by the device, then each will have the same value of name. Note that for an agent which responds to SNMP queries concerning an interface on some other (proxied) device, then the value of name for such an interface is the proxied device's local name for it. If there is no local name, or this object is otherwise not applicable, then this object contains a zero-length string.

This command is supported when following feature are enabled HAVE_SUBINTERFACE

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Attribute Name: rewrite-translate-action

Attribute Type: enum (1-to-1|1-to-2|2-to-2|2-to-1)

Attribute Name: dot1q-dot1ad-tpid

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: uint16

Attribute Range: 0-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<extended>
<subinterface-encapsulation>
<rewrite>
<config>
   <vlan-action>pop</vlan-action>
      <rewrite-translate-action>1-to-1</rewrite-translate-action>
         <dot1q-dot1ad-tpid>dot1q</dot1q-dot1ad-tpid>
            <outer-vlan-id>0</outer-vlan-id>
         </config>
      </rewrite>
   </subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 rewrite (translate) (2-to-1) (dot1q|dot1ad) <0-4094>
```

Configure enable pop

This attribute is used to configure pop outer and inner tag. To change the rewrite config, delete and recreate the entire rewrite config.

This command is supported when following feature are enabled subinterface feature

Attribute Name: enable-pop

Attribute Type: enum (1tag|2tag)

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <subinterface-encapsulation>
   <rewrite>
   <config>
         <vlan-action>pop</vlan-action>
         <enable-pop>1</enable-pop>
```

```
    </config>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite (pop)
```

Configure vlan action

This attribute is used to configure pop outer and inner tag. To change the rewrite config, delete and recreate the entire rewrite config.

This command is supported when following feature are enabled subinterface feature

Attribute Name: enable-pop

Attribute Type: enum (1tag|2tag)

Attribute Name: vlan-action

Attribute Type: enum (pop|push|translate)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <subinterface-encapsulation>
    <rewrite>
    <config>
           <vlan-action>1</vlan-action>
           <enable-pop>2</enable-pop>
    </config>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
rewrite pop-2tag
```

Configure disable egr pcp

This attribute is used to preserve cos-dei bits at egress

This command is supported when following feature are enabled subinterface feature,DNX feature

Attribute Name: disable-egr-pcp

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <subinterface-encapsulation>
   <rewrite>
   <egress>
   <config>
         </disable-egr-pcp><!-- operation="delete"-->
   </config>
</egress>
</rewrite>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 rewrite egr-pcp-disable
```

Configure encapsulation type

This attribute is used to configure the encapsulation type(dot1q/dot1ad).

This command is supported when following feature are enabled subinterface feature

Attribute Name: encapsulation-type

Attribute Type: enum (dot1q|dot1ad)

Attribute Name: outer-vlan-id

Attribute Type: string

Attribute Range: 1-4095

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <subinterface-encapsulation>
   <single-tag-vlan-matches>
```

```
    <single-tag-vlan-match> <!-- operation="delete"-->
        <encapsulation-type>dot1q</encapsulation-type>
        <config>
            <encapsulation-type>dot1q</encapsulation-type>
            <outer-vlan-id>VLAN_RANGE2</outer-vlan-id>
        </config>
    </single-tag-vlan-match>
</single-tag-vlan-matches>
</subinterface-encapsulation>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
encapsulation (dot1q|dot1ad) VLAN_RANGE2
```

Configure outer vlan id

This attribute is used to configure the outer VLAN tag as a single value alone

This command is supported when following feature are enabled subinterface feature

Attribute Name: outer-vlan-id

Attribute Type: string

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
    <subinterface-encapsulation>
    <double-tag-vlan-matches>
    <double-tag-vlan-match> <!-- operation="delete"-->
        <outer-vlan-id>VLAN_RANGE2</outer-vlan-id>
        <config>
            <outer-vlan-id>1</outer-vlan-id>
            <encap-type>dot1q</encap-type>
            <inner-vlan-id>VLAN_RANGE2</inner-vlan-id>
        </config>
            <encap-type>dot1q</encap-type>
    </double-tag-vlan-match>
</double-tag-vlan-matches>
```

```
   </subinterface-encapsulation>
   </extended>
   </interface>
   </interfaces>
```

Command Syntax

```
    encapsulation (dot1q|dot1ad) VLAN_RANGE2 inner-dot1q VLAN_RANGE2
```

Configure split horizon group

This attribute is used to configure the split-horizon

This command is supported when following feature are enabled subinterface feature

Attribute Name: split-horizon-group

Attribute Type: enum (network|access1|access2)

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <subinterface-split-horizon>
      <config>
            <split-horizon-group>network</split-horizon-group> <!--
operation="delete"-->
      </config>
   </subinterface-split-horizon>
   </extended>
   </interface>
   </interfaces>
```

Command Syntax

```
    split-horizon group (network|access1|access2)
```

Configure linkup debounce time

Link debounce timer value for down-up transition

Attribute Name: linkup-debounce-time

Attribute Type: uint32

Attribute Range: 0-1800000

Attribute Name: linkdown-debounce-time

Attribute Type: uint32

Attribute Range: 0-1800000

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <link-debounce-time>
   <config>
          <linkdown-debounce-time>0</linkdown-debounce-time>
          <linkup-debounce-time>0</linkup-debounce-time>
   </config>
</link-debounce-time>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
 link-debounce-time <0-1800000> <0-1800000>
```

Configure rate

Interface minimum bandwidth

This command is supported when following feature are enabled TE Enabled

Attribute Name: rate

Attribute Type: uint32

Attribute Range: 1-1000000000

Attribute Name: rate-unit

Attribute Type: enum (kbps|mbps|gbps)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <minimum-bandwidth>
   <config>
          <rate-unit>kbps</rate-unit>
          <rate>1</rate>
   </config>
</minimum-bandwidth>
</extended>
</interface>
```

```
</interfaces>
```

Command Syntax

```
minimum-bandwidth <1-1000000000> (kbps|mbps|gbps)
```

Configure l2cp type

This attribute is used to configure the layer2 control-protocol type

This command is supported when following feature are enabled Layer-2 feature

Attribute Name: l2cp-type

Attribute Type: enum (stp|lacp|dot1x|lldp|efm|elmi|synce)

Attribute Name: protocol-process

Attribute Type: enum (peer|tunnel|discard)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <extended xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <l2-control-protocol> <!-- operation="delete"-->
      <l2cp-type>stp</l2cp-type>
      <config>
         <l2cp-type>stp</l2cp-type>
         <protocol-process>peer</protocol-process>
      </config>
   </l2-control-protocol>
</extended>
</interface>
</interfaces>
```

Command Syntax

```
l2protocol (stp|lacp|dot1x|lldp|efm|elmi|synce) (peer|tunnel|discard)
```

Configure forward err correction

This Object is used to set forward-error-correction to interface

Attribute Name: forward-err-correction

Attribute Type: enum (off|on|auto|on cl74|on cl91|on cl108)

Default Value: auto

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
```

```
       <name>IFNAME</name>
       <config>
          <name>IFNAME</name>
       </config>
       <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
          <extended-ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
extended">
          <config>
                <forward-err-correction>auto</forward-err-correction> <!--
operation="delete"-->
          </config>
       </extended-ethernet>
    </ethernet>
    </interface>
    </interfaces>
```

Command Syntax

```
     fec (off|on|auto|on cl74|on cl91|on cl108)
```

Configure load interval

This attribute is used to configure load interval period in multiples of 30 seconds

Attribute Name: load-interval

Attribute Type: uint16

Default Value: 300

Attribute Range: 30-300

Netconf edit-config payload

```
    <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
    <interface>
       <name>IFNAME</name>
       <config>
          <name>IFNAME</name>
       </config>
       <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
          <extended-ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
extended">
          <config>
                <load-interval>30</load-interval> <!-- operation="delete"-->
          </config>
       </extended-ethernet>
    </ethernet>
    </interface>
    </interfaces>
```

Command Syntax

```
     load-interval <30-300>
```

Configure bcast value

This attribute is used to set the storm control configuration, Set Broadcast Rate Limiting of layer2 Interface

This command is supported when following feature are enabled rate limit feature

Attribute Name: bcast-value

Attribute Type: union

Attribute Name: bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <broadcast>
      <config>
             <bcast-rate-limit-format>0</bcast-rate-limit-format>
             <bcast-burst-value>1</bcast-burst-value>
             <bcast-value>LEVEL</bcast-value>
      </config>
   </broadcast>
</storm-control>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
 storm-control broadcast level LEVEL (burst-size <1-33292>|)
```

Configure bcast rate limit format

This attribute is used to set the storm control configuration, Set the format for units in kbps|mbps|gbps or level for threshold percentage

This command is supported when following feature are enabled rate limit feature

Attribute Name: bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: bcast-value

Attribute Type: union

Attribute Name: bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <broadcast>
      <config>
             <bcast-value>0</bcast-value>
             <bcast-burst-value>1</bcast-burst-value>
             <bcast-rate-limit-format>level</bcast-rate-limit-format>
      </config>
   </broadcast>
</storm-control>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
 storm-control broadcast <0-4294967294> (kbps|mbps|gbps) (burst-size <1-33292>|)
```

Configure mcast value

This attribute is used to set the storm control configuration,Set Multicast Rate Limiting of layer2 Interface

This command is supported when following feature are enabled rate limit feature

Attribute Name: mcast-value

Attribute Type: union

Attribute Name: mcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: mcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <multicast>
```

```
        <config>
               <mcast-rate-limit-format>0</mcast-rate-limit-format>
               <mcast-burst-value>1</mcast-burst-value>
               <mcast-value>LEVEL</mcast-value>
        </config>
     </multicast>
  </storm-control>
  </ethernet>
  </interface>
  </interfaces>
```

Command Syntax

```
 storm-control multicast level LEVEL (burst-size <1-33292>|)
```

Configure mcast rate limit format

This attribute is used to set the storm control configuration, Set the format for units in kbps|mbps|gbps or level for threshold percentage

This command is supported when following feature are enabled rate limit feature

Attribute Name: mcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: mcast-value

Attribute Type: union

Attribute Name: mcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
  <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
  <interface>
     <name>IFNAME</name>
     <config>
        <name>IFNAME</name>
     </config>
     <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
        <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
        <multicast>
        <config>
               <mcast-value>0</mcast-value>
               <mcast-burst-value>1</mcast-burst-value>
               <mcast-rate-limit-format>level</mcast-rate-limit-format>
        </config>
     </multicast>
  </storm-control>
  </ethernet>
  </interface>
  </interfaces>
```

Command Syntax

```
storm-control multicast <0-4294967294> (kbps|mbps|gbps) (burst-size <1-33292>|)
```

Configure dlf bcast value

This attribute is used to set the storm control configuration,Set DLF Broadcast Rate Limiting of layer2 Interface

This command is supported when following feature are enabled rate limit feature

Attribute Name: dlf-bcast-value

Attribute Type: union

Attribute Name: dlf-bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: dlf-bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <dlf-broadcast>
      <config>
             <dlf-bcast-rate-limit-format>0</dlf-bcast-rate-limit-format>
             <dlf-bcast-burst-value>1</dlf-bcast-burst-value>
             <dlf-bcast-value>LEVEL</dlf-bcast-value>
      </config>
   </dlf-broadcast>
</storm-control>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
storm-control dlf level LEVEL (burst-size <1-33292>|)
```

Configure dlf bcast rate limit format

This attribute is used to set the storm control configuration, Set the format for units in kbps|mbps|gbps or level for threshold percentage

This command is supported when following feature are enabled rate limit feature

Attribute Name: dlf-bcast-rate-limit-format

Attribute Type: enum (level|kbps|mbps|gbps)

Attribute Name: dlf-bcast-value

Attribute Type: union

Attribute Name: dlf-bcast-burst-value

Attribute Type: uint32

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <ethernet xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-ethernet">
      <storm-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <dlf-broadcast>
      <config>
             <dlf-bcast-value>0</dlf-bcast-value>
             <dlf-bcast-burst-value>1</dlf-bcast-burst-value>
             <dlf-bcast-rate-limit-format>level</dlf-bcast-rate-limit-format>
      </config>
   </dlf-broadcast>
</storm-control>
</ethernet>
</interface>
</interfaces>
```

Command Syntax

```
 storm-control dlf <0-4294967294> (kbps|mbps|gbps) (burst-size <1-33292>|)
```

Configure global load-interval

This attribute is used to configure load interval on all interfaces and its set period in multiples of 30 seconds

Attribute Name: load-interval

Attribute Type: uint16

Default Value: 300

Attribute Range: 30-300

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<config>
       <load-interval>30</load-interval> <!-- operation="delete"-->
</config>
</global>
</interfaces>
```

Command Syntax

```
default-interface load-interval <30-300>
```

Configure error disable stp bpdu guard

This object is used to configure error disable STP BPDU Guard

Attribute Name: error-disable-stp-bpdu-guard

Attribute Type: boolean

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <error-disable>
   <config>
          <error-disable-stp-bpdu-guard>true</error-disable-stp-bpdu-guard> <!--
operation="delete"-->
   </config>
   </error-disable>
   </global>
   </interfaces>
```

Command Syntax

```
no errdisable cause stp-bpdu-guard
```

Configure reason

This object is to enable various error-disable reasons like lag-mismatch, stp-bpdu-guard, link-flap and loopback-detection. As the datatype is BITS, 0th bit corresponds to lag-mismatch, 1st bit corresponds to stp-bpdu-guard, 2nd bit corresponds to link-flap

Attribute Name: reason

Attribute Type: bits (lag-mismatch|link-flap|mac-move-limit|storm-control)

Attribute Name: error-disable-stp-bpdu-guard

Attribute Type: boolean

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <error-disable>
   <config>
          <error-disable-stp-bpdu-guard>true</error-disable-stp-bpdu-guard> <!--
operation="delete"-->
          <reason>lag-mismatch</reason> <!-- operation="delete"-->
   </config>
   </error-disable>
   </global>
   </interfaces>
```

Command Syntax

```
errdisable cause stp-bpdu-guard {lag-mismatch|link-flap|mac-move-limit|storm-
  control}
```

Configure link flap timer interval

This object is configure timer interval for link-flap timer

Attribute Name: link-flap-timer-interval

Attribute Type: uint32

Attribute Range: 1-1800

Attribute Name: link-flap-max-count

Attribute Type: uint32

Attribute Range: 1-100

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <error-disable>
   <config>
          <link-flap-max-count>1</link-flap-max-count> <!-- operation="delete"-->
          <link-flap-timer-interval>1</link-flap-timer-interval> <!--
operation="delete"-->
   </config>
   </error-disable>
   </global>
   </interfaces>
```

Command Syntax

```
errdisable link-flap-setting max-flaps <1-100> time <1-1800>
```

Configure storm control timer interval

This attribute is configure timer interval for storm-control timer

Attribute Name: storm-control-timer-interval

Attribute Type: uint32

Attribute Range: 1-1800

Attribute Name: storm-control-max-count

Attribute Type: uint32

Attribute Range: 1-100

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <error-disable>
   <config>
```

```
          <storm-control-max-count>1</storm-control-max-count> <!-- operation="delete"-
->
          <storm-control-timer-interval>1</storm-control-timer-interval> <!--
operation="delete"-->
   </config>
   </error-disable>
   </global>
   </interfaces>
```

Command Syntax

```
    errdisable storm-control discard-hit <1-100> time <1-1800>
```

Configure error-disable reason

This object is to enable various error-disable reasons like lag-mismatch, stp-bpdu-guard, link-flap and loopback-detection. As the datatype is BITS, 0th bit corresponds to lag-mismatch, 1st bit corresponds to stp-bpdu-guard, 2nd bit corresponds to link-flap

Attribute Name: reason

Attribute Type: bits (lag-mismatch|link-flap|mac-move-limit|storm-control)

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <error-disable>
   <config>
          <reason>lag-mismatch</reason> <!-- operation="delete"-->
   </config>
   </error-disable>
   </global>
   </interfaces>
```

Command Syntax

```
    errdisable cause {lag-mismatch|link-flap|mac-move-limit|storm-control}
```

Configure error-disable error-disable-stp-bpdu-guard

This object is used to configure error disable STP BPDU Guard

Attribute Name: error-disable-stp-bpdu-guard

Attribute Type: boolean

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <error-disable>
   <config>
          <error-disable-stp-bpdu-guard>true</error-disable-stp-bpdu-guard> <!--
operation="delete"-->
   </config>
   </error-disable>
```

```
</global>
</interfaces>
```

Command Syntax

```
errdisable cause stp-bpdu-guard
```

Configure timeout interval

This object is to configure timeout for error-disable automatic recovery timer

Attribute Name: timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-1000000

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<error-disable>
<config>
       <timeout-interval>0</timeout-interval> <!-- operation="delete"-->
</config>
</error-disable>
</global>
</interfaces>
```

Command Syntax

```
errdisable timeout interval <0-1000000>
```

Configure mac move limit

This object configures threshold for mac movement

Attribute Name: mac-move-limit

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-1000

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<error-disable>
<config>
       <mac-move-limit>1</mac-move-limit> <!-- operation="delete"-->
</config>
</error-disable>
</global>
</interfaces>
```

Command Syntax

```
errdisable mac-move-limit <1-1000>
```

Configure protocol process

This attribute is used to configure the layer2 control-protocol type

This command is supported when following feature are enabled Layer-2 feature

Attribute Name: l2cp-type

Attribute Type: enum (stp|lacp|dot1x|lldp|efm|elmi|synce)

Attribute Name: protocol-process

Attribute Type: enum (peer|tunnel|discard)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<l2-control-protocols>
<l2-control-protocol> <!-- operation="delete"-->
   <l2cp-type>stp</l2cp-type>
   <config>
      <l2cp-type>stp</l2cp-type>
      <protocol-process>peer</protocol-process>
   </config>
</l2-control-protocol>
</l2-control-protocols>
</global>
</interfaces>
```

Command Syntax

```
default-interface l2protocol (stp|lacp|dot1x|lldp|efm|elmi|synce)
  (peer|tunnel|discard)
```

Configure if type

Use this attribute to set the hardware interface type

Attribute Name: if-type

Attribute Type: enum (eth-switchport|eth-routed|l2-subif|l3-subif|svi|lag|mlag|bvi|irb)

Attribute Name: mtu

Attribute Type: uint32

Attribute Range: 64-65535

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<mtus>
<mtu> <!-- operation="delete"-->
```

```
      <if-type>eth-switchport</if-type>
      <config>
         <if-type>eth-switchport</if-type>
         <mtu>64</mtu>
      </config>
   </mtu>
   </mtus>
   </global>
   </interfaces>
```

Command Syntax

```
    default-interface type (eth-switchport|eth-routed|l2-subif|l3-
      subif|svi|lag|mlag|bvi|irb) mtu <64-65535>
```

Configure mode

This attribute is used to unset the tunnel mode

This command is supported when following feature are enabled tunnel feature

Attribute Name: mode

Attribute Type: enum (vxlan)

Default Value: vxlan

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
            <mode>vxlan</mode> <!-- operation="delete"-->
      </config>
   </tunnel>
   </interface>
   </interfaces>
```

Command Syntax

```
    tunnel mode (vxlan)
```

Configure src

This attribute is used to set tunnel source

This command is supported when following feature are enabled tunnel feature

Attribute Name: src

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
            <src>A.B.C.D</src> <!-- operation="delete"-->
      </config>
   </tunnel>
   </interface>
   </interfaces>
```

Command Syntax

```
    tunnel source A.B.C.D
```

Configure multicast interface

This attribute is used to configure egress multicast interface for tunnel

This command is supported when following feature are enabled tunnel feature

Attribute Name: multicast-interface

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
      <config>
            <multicast-interface>IFNAME</multicast-interface> <!--
operation="delete"-->
      </config>
   </tunnel>
   </interface>
   </interfaces>
```

Command Syntax

```
    tunnel egress-multicast-interface IFNAME
```

Configure dst

This attribute is used to set destination of tunnel packets

This command is supported when following feature are enabled tunnel feature

Attribute Name: dst

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          <dst>A.B.C.D</dst> <!-- operation="delete"-->
   </config>
</tunnel>
</interface>
</interfaces>
```

Command Syntax

```
tunnel destination A.B.C.D
```

Configure checksum enable

This attribute is used to enable end to end checksumming of packets

This command is supported when following feature are enabled tunnel feature

Attribute Name: checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          </checksum-enable><!-- operation="delete"-->
   </config>
</tunnel>
</interface>
</interfaces>
```

Command Syntax

```
tunnel checksum
```

Configure tos byte

This attribute is used to set type of service byte

This command is supported when following feature are enabled tunnel feature

Attribute Name: tos-byte

Attribute Type: uint16

Attribute Range: 0-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          <tos-byte>0</tos-byte> <!-- operation="delete"-->
   </config>
</tunnel>
</interface>
</interfaces>
```

Command Syntax

```
 tunnel tos <0-255>
```

Configure ttl

This attribute is used to set time to live

This command is supported when following feature are enabled tunnel feature

Attribute Name: ttl

Attribute Type: uint16

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          <ttl>1</ttl> <!-- operation="delete"-->
   </config>
</tunnel>
```

```
</interface>
</interfaces>
```

Command Syntax

```
tunnel ttl <1-255>
```

Configure path mtu enable

This attribute is used to enable Path MTU Discovery on tunnel

This command is supported when following feature are enabled tunnel feature

Attribute Name: path-mtu-enable

Attribute Type: empty

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
         </path-mtu-enable><!-- operation="delete"-->
   </config>
</tunnel>
</interface>
</interfaces>
```

Command Syntax

```
tunnel path-mtu-discovery
```

Configure dst mac address

This attribute is used to set next Hop Destination MAC Address of Tunnel Packets

This command is supported when following feature are enabled tunnel feature

Attribute Name: dst-mac-address

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
```

```
            <dst-mac-address>MAC</dst-mac-address> <!-- operation="delete"-->
      </config>
   </tunnel>
   </interface>
   </interfaces>
```

Command Syntax

```
tunnel dmac MAC
```

Configure gre key

This attribute is used to set the gre-key for tunnel

This command is supported when following feature are enabled tunnel feature

Attribute Name: gre-key

Attribute Type: union

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <tunnel xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
   <config>
          <gre-key>IF_TUNNEL_KEY_T</gre-key>
   </config>
</tunnel>
</interface>
</interfaces>
```

Command Syntax

```
tunnel key (A.B.C.D|<0-4294967295>)
```

Configure link scan timer

Link timer value at which device scans its network links to check their status

Attribute Name: link-scan-timer

Attribute Type: uint16

Attribute Range: 50-1000

Netconf edit-config payload

```
<link-scan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<config>
   <link-scan-timer>50</link-scan-timer> <!-- operation="delete"-->
</config>
</link-scan>
```

Command Syntax

```
link-scan-timer <50-1000>
```

Configure snmp lower layer

Use this attribute to set the lower layer down

Attribute Name: snmp-lower-layer

Attribute Type: empty

Netconf edit-config payload

```
<link-scan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<config>
   </snmp-lower-layer><!-- operation="delete"-->
</config>
</link-scan>
```

Command Syntax

```
snmp lower-layer-down-trap enable
```

Configure protocol type

Use this attribute to set the protocol type

Attribute Name: protocol-type

Attribute Type: enum (all)

Netconf edit-config payload

```
<l2-protocol xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-extended">
<config>
   <protocol-type>all</protocol-type> <!-- operation="delete"-->
</config>
</l2-protocol>
```

Command Syntax

```
l2protocol (all) learn-disable
```

clear interface (IFNAME|) cpu counters

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
       <clear-interface-cpu-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
if-extended">
       <if-name>IFNAME</if-name>
       </clear-interface-cpu-counters>
```

Command Syntax

```
clear interface (IFNAME|) cpu counters
```

clear interface (IFNAME|) fec

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
       <clear-interface-forward-error-correction-counters xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-if-extended">
       <if-name>IFNAME</if-name>
       </clear-interface-forward-error-correction-counters>
```

Command Syntax

```
clear interface (IFNAME|) fec
```

clear interface IFNAME error-disable

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
       <clear-interface-error-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
if-extended">
       <if-name>IFNAME</if-name>
       </clear-interface-error-disable>
```

Command Syntax

```
clear interface IFNAME error-disable
```

clear l2protocol interface (IFNAME|) counters (peer|tunnel|discard|tunnel-discard|)

Attribute Name: if-name

Attribute Type: string

Attribute Name: protocol

Attribute Type: enum (peer|tunnel|discard|tunnel-discard|all)

Default Value: all

Netconf RPC payload

```
       <clear-l2protocol-interface-counter xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-if-extended">
       <if-name>IFNAME</if-name>
       <protocol>all</protocol>
       </clear-l2protocol-interface-counter>
```

Command Syntax

```
clear l2protocol interface (IFNAME|) counters (peer|tunnel|discard|tunnel-discard|)
```

no sniff

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
      <interface-sniff-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
extended">
      <interface-name>WORD</interface-name>
      </interface-sniff-disable>
```

Command Syntax

```
no sniff
```

IPI-IF-FLOWSPEC

Configure flowspec disable

disable FLOWSPEC for an interface

Attribute Name: flowspec-disable

Attribute Type: empty

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <interface-flowspec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
flowspec">
      <ipv4>
      <config>
            </flowspec-disable><!-- operation="delete"-->
      </config>
   </ipv4>
   </interface-flowspec>
   </interface>
   </interfaces>
```

Command Syntax

```
ipv4 flowspec-disable
```

IPI-SYNCE

Configure enable

Use this command to configure Synchronous Ethernet. This command changes the mode from configure mode to configure Synchronous Ethernet mode and initializes the global Synchronous Ethernet parameters.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<globals>
<config>
   </enable>
</config>
</globals>
</synce>
```

Command Syntax

```
synce
```

Configure network option

Use this command to set the synchronization option for the internal clock that is locked in frequency to an incoming signal.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: network-option

Attribute Type: enum (1|2)

Default Value: 1

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<globals>
<config>
   <network-option>1</network-option> <!-- operation="delete"-->
</config>
</globals>
</synce>
```

Command Syntax

```
synchronization option (1|2)
```

Configure clock selection mode

Use this command to determine whether to use the Quality Level (QL) as a criteria when selecting a clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-selection-mode

Attribute Type: enum (ql-enabled|ql-disabled)

Default Value: ql-enabled

Netconf edit-config payload

```
   <synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
   <globals>
   <config>
      <clock-selection-mode>ql-enabled</clock-selection-mode> <!-- operation="delete"-
->
   </config>
   </globals>
   </synce>
```

Command Syntax

```
    clock-selection mode (ql-enabled|ql-disabled)
```

Configure dpll3 select 10mhz in

Use this command to select/deselect dpll3 input

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: dpll3-select-10mhz-in

Attribute Type: empty

Netconf edit-config payload

```
   <synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
   <globals>
   <config>
      </dpll3-select-10mhz-in><!-- operation="delete"-->
   </config>
   </globals>
   </synce>
```

Command Syntax

```
    dpll3-select 10mhz-in
```

Configure holdover timer

set this command to enable synce holdover (default 120 min)

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: holdover-timer

Attribute Type: uint16

Default Value: 120

Attribute Range: 0-1440

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<globals>
<config>
   <holdover-timer>0</holdover-timer> <!-- operation="delete"-->
</config>
</globals>
</synce>
```

Command Syntax

```
holdover <0-1440>
```

Configure name

Use this command to enable Synchronous Ethernet for an interface. This command changes the mode from interface mode to interface Synchronous Ethernet mode. This command does not automatically start synchronization distribution. You must explicitly give the mode command, specifying the synchronous option

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable>
</interface>
</interfaces>
</synce>
```

Command Syntax

```
synce
```

Configure synchronous mode

Use this command to configure the interface as synchronous or non-synchronous

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: synchronous-mode

Attribute Type: enum (synchronous|non-synchronous)

Default Value: non-synchronous

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <synchronous-mode>non-synchronous</synchronous-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
mode (synchronous|non-synchronous)
```

Configure input source priority

Use this command to set an input timing source. Synchronization packets are received from this source and sent to the clock selection algorithm

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: input-source-priority

Attribute Type: uint8

Default Value: 255

Attribute Range: 0-255

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <input-source-priority>0</input-source-priority> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
input-source <0-255>
```

Configure is output source

Use this command to configures an Ethernet interface as a timing output interface

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: is-output-source

Attribute Type: boolean

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <is-output-source>true</is-output-source> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
output-source
```

Configure wait to restore timer

Use this command to set the wait-to-restore timer in minutes. The wait-to-restore time ensures that a synchronization source that previously failed is considered by the selection process again only if it is fault free for a certain time.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: wait-to-restore-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 0-12

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <wait-to-restore-timer>0</wait-to-restore-timer> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
wait-to-restore <0-12>
```

Configure vlan id

use this command to configure and unconfigure the dot1q 1-4095

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <vlan-id>1</vlan-id> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
 dot1q <1-4095>
```

Configure hold off timer

Use this command to set the hold-off time in milliseconds. The hold-off time ensures that short activation of signal fail is not passed to the selection process.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: hold-off-timer

Attribute Type: uint16

Default Value: 300

Attribute Range: 300-1800

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <hold-off-timer>300</hold-off-timer> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
hold-off <300-1800>
```

Configure quality level

Use this command to set the quality level (QL) for the timing source

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: quality-level

Attribute Type: string

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <quality-level>QL_VAL</quality-level> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
quality-level QL_VAL
```

Configure clock source id

Configure clock-source-identifier

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-source-id

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <clock-source-id>1</clock-source-id> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
clock-source-id <1-255>
```

Configure auto neg mode

Use this command to configure mode

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: auto-neg-mode

Attribute Type: enum (master|slave)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <auto-neg-mode>master</auto-neg-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</synce>
```

Command Syntax

```
base-t (master|slave)
```

Configure external synce interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
synce-interface (gps|10mhz-in|ptp|2mhz-in)
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
 synce-interface (bits-t1|bits-e1)
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>bits-t1-1</external-synce-interface>
   <config>
      <external-synce-interface>bits-t1-1</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
 synce-interface bits-t1 0
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>bits-t1-2</external-synce-interface>
   <config>
      <external-synce-interface>bits-t1-2</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
 synce-interface bits-t1 1
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>bits-e1-0</external-synce-interface>
   <config>
      <external-synce-interface>bits-e1-0</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
 synce-interface bits-t1 2
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>bits-e1-1</external-synce-interface>
   <config>
      <external-synce-interface>bits-e1-1</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
 synce-interface bits-e1 0
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>bits-e1-2</external-synce-interface>
   <config>
      <external-synce-interface>bits-e1-2</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
 synce-interface bits-e1 1
```

Configure external-interfaces external-synce-interface

synce external interface name

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-synce-interface

Attribute Type: enum (gps|10mhz-in|ptp|bits-t1|bits-e1|2mhz-in|bits-t1-0|bits-t1-1|bits-t1-2|bits-e1-0|bits-e1-1|bits-e1-2)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface> <!-- operation="delete"-->
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
synce-interface bits-e1 2
```

Configure external-interface synchronous-mode

Configure the synce interface mode

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: synchronous-mode

Attribute Type: enum (synchronous|non-synchronous)

Default Value: non-synchronous

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface>
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
   <synchronous-mode>non-synchronous</synchronous-mode> <!-- operation="delete"-->
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
mode (synchronous|non-synchronous)
```

Configure external-interface input-source-priority

Use this command to set an input timing source. Synchronization packets are received from this source and sent to the clock selection algorithm.Use the no form of this command to delete an input source.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: input-source-priority

Attribute Type: uint8

Default Value: 255

Attribute Range: 0-255

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface>
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
   <input-source-priority>0</input-source-priority> <!-- operation="delete"-->
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
input-source <0-255>
```

Configure external-interface wait-to-restore-timer

Use this command to set the wait-to-restore timer in minutes. The wait-to-restore time ensures that a synchronization source that previously failed is considered by the selection process again only if it is fault free for a certain time

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: wait-to-restore-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 0-12

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface>
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
   <wait-to-restore-timer>0</wait-to-restore-timer> <!-- operation="delete"-->
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
wait-to-restore <0-12>
```

Configure external-interface hold-off-timer

Use this command to set the hold-off time in milliseconds. The hold-off time ensures that short activation of signal fail is not passed to the selection process

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: hold-off-timer

Attribute Type: uint16

Default Value: 300

Attribute Range: 300-1800

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface>
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
   <hold-off-timer>300</hold-off-timer> <!-- operation="delete"-->
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
 hold-off <300-1800>
```

Configure external-interface quality-level

Use this command to set the quality level (QL) for the timing source

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: quality-level

Attribute Type: string

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<external-interfaces>
<external-interface>
   <external-synce-interface>gps</external-synce-interface>
   <config>
      <external-synce-interface>gps</external-synce-interface>
   </config>
   <quality-level>QL_VAL</quality-level> <!-- operation="delete"-->
</external-interface>
</external-interfaces>
</synce>
```

Command Syntax

```
quality-level QL_VAL
```

Configure options

Use this Attribute to set or unset the SyncE debug related configurations

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: options

Attribute Type: bits (event|recvd|trans|all)

Netconf edit-config payload

```
<synce xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<debug>
<config>
   <options>event</options> <!-- operation="delete"-->
</config>
</debug>
</synce>
```

Command Syntax

```
debug synce (event|recvd|trans|all)
```

clear synce stats (interface IFNAME|)

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-synce-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<interface-name>IFNAME</interface-name>
</clear-synce-stats>
```

Command Syntax

```
clear synce stats (interface IFNAME|)
```

debug synce (event|recvd|trans|all)

Attribute Name: debug-options

Attribute Type: bits (event|recvd|trans|all)

Netconf RPC payload

```
<synce-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-synce">
<debug-options>event</debug-options>
</synce-terminal-debug-on>
```

Command Syntax

```
debug synce (event|recvd|trans|all)
```

no debug synce (event|recvd|trans|all)

Attribute Name: debug-options

Attribute Type: bits (event|recvd|trans|all)

Netconf RPC payload

```
       <synce-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
synce">
       <debug-options>event</debug-options>
       </synce-terminal-debug-off>
```

Command Syntax

```
    no debug synce (event|recvd|trans|all)
```

IPI-SYSTEM

Configure hostname

Use this command to set the network name for the device. OcNOS uses this name in system prompts and default configuration filenames. Setting a host name using this command also sets the host name in the kernel.After giving the hostname command, you must write to memory using the write command. If you do not write to memory, the change made by this command (the new host name) is not set after the device reboots.

Attribute Name: hostname

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <system-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-system">
   <config>
      <hostname>WORD</hostname> <!-- operation="delete"-->
   </config>
   </system-info>
```

Command Syntax

```
    hostname WORD
```

Configure disable

disable system request

Attribute Name: disable

Attribute Type: boolean

Default Value: true

Netconf edit-config payload

```
   <system-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-system">
```

```
<sysrq>
<config>
   <disable>true</disable> <!-- operation="delete"-->
</config>
</sysrq>
</system-info>
```

Command Syntax

```
sysrq disable
```

Configure timezone name

The attribute display timezone name used for the system

Attribute Name: timezone-name

Attribute Type: string

Netconf edit-config payload

```
<system-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-system">
<clock>
<config>
   <timezone-name>WORD</timezone-name> <!-- operation="delete"-->
</config>
</clock>
</system-info>
```

Command Syntax

```
clock timezone WORD
```

IPI-NETWORK-SERVICES-MANAGER

Configure options

Use this attribute to debug nsm

Attribute Name: options

Attribute Type: bits (addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)

Netconf edit-config payload

```
   <network-services-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
   <debug>
   <nsm>
   <config>
      <options>addressmonitor</options> <!-- operation="delete"-->
   </config>
```

```
</nsm>
</debug>
</network-services-manager>
```

Command Syntax

```
debug nsm ((addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet
  detail|packet recv|packet recv detail|packet send|packet send
  detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp
  ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)|)
```

Configure pkt-mgr options

Use this attribute to debug vlan packet

Attribute Name: options

Attribute Type: bits (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol mstp|l2 protocol ptp|l2 protocol all)

Netconf edit-config payload

```
<network-services-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
<debug>
<pkt-mgr>
<config>
   <options>l2 protocol cfm</options> <!-- operation="delete"-->
</config>
</pkt-mgr>
</debug>
</network-services-manager>
```

Command Syntax

```
debug pktmgr (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-
  snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol
  mstp|l2 protocol ptp|l2 protocol all)
```

Configure module name

Use this attribute to set debug HSL module

This command is supported when following feature are enabled HSL feature

Attribute Name: module-name

Attribute Type: enum (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)

Attribute Name: level

Attribute Type: bits (all|default|info|debug|warn|error|fatal|admin|counter|pkt)

Netconf edit-config payload

```
<network-services-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
```

```
<debug>
<hsl>
<hsl-module> <!-- operation="delete"-->
   <module-name>general</module-name>
   <config>
      <module-name>general</module-name>
      <level>all</level>
   </config>
</hsl-module>
</hsl>
</debug>
</network-services-manager>
```

Command Syntax

```
debug hsl
  (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper
  |rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
  {all|default|info|debug|warn|error|fatal|admin|counter|pkt}
```

debug nsm ((addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)|)

Attribute Name: terminal-debug-options

Attribute Type: bits (addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)

Netconf RPC payload

```
      <nsm-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager">
      <terminal-debug-options>addressmonitor</terminal-debug-options>
      </nsm-terminal-debug-on>
```

Command Syntax

```
debug nsm ((addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet
  detail|packet recv|packet recv detail|packet send|packet send
  detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp
  ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)|)
```

no debug nsm ((addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)|)

Attribute Name: terminal-debug-options

Attribute Type: bits (addressmonitor|bfd|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)

Netconf RPC payload

```
       <nsm-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager">
       <terminal-debug-options>addressmonitor</terminal-debug-options>
       </nsm-terminal-debug-off>
```

Command Syntax

```
    no debug nsm ((addressmonitor|bfd|events|hal events|hal
      ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet
      send|packet send detail|vxlan|ipsec|mpls|mpls sr ftn|mpls sr ilm|mpls ldp
      ftn|mpls ldp ilm|evpn|mpls rsvp ftn|mpls rsvp ilm|all)|)
```

debug hsl (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy) {all|default|info|debug|warn|error|fatal|admin|counter|pkt}

Attribute Name: module-name

Attribute Type: enum (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)

Attribute Name: level

Attribute Type: bits (all|default|info|debug|warn|error|fatal|admin|counter|pkt)

Netconf RPC payload

```
       <hsl-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager">
       <module-name>general</module-name>
       <level>all</level>
       </hsl-terminal-debug-on>
```

Command Syntax

```
    debug hsl
      (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper
      |rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
      {all|default|info|debug|warn|error|fatal|admin|counter|pkt}
```

no debug hsl (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy) {all|default|info|debug|warn|error|fatal|admin|counter|pkt}

Attribute Name: module-name

Attribute Type: enum (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper|rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)

Attribute Name: level

Attribute Type: bits (all|default|info|debug|warn|error|fatal|admin|counter|pkt)

Netconf RPC payload

```
       <hsl-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager">
       <module-name>general</module-name>
       <level>all</level>
       </hsl-terminal-debug-off>
```

Command Syntax

```
    no debug hsl
      (general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|bfd|lacp|qos|helper
      |rbridge|nvo|ofl|mlag|mpls|srv6|ptp|extphy)
      {all|default|info|debug|warn|error|fatal|admin|counter|pkt}
```

debug pktmgr (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol mstp|l2 protocol ptp|l2 protocol all)

Attribute Name: terminal-debug-options

Attribute Type: bits (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol mstp|l2 protocol ptp|l2 protocol all)

Netconf RPC payload

```
       <pktmgr-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager">
       <terminal-debug-options>l2 protocol cfm</terminal-debug-options>
       </pktmgr-terminal-debug-on>
```

Command Syntax

```
    debug pktmgr (l2 protocol cfm|l2 protocol eapol|l2 protocol efm|l2 protocol igmp-
      snoop|l2 protocol lacp|l2 protocol lldp|l2 protocol mldp-snoop|l2 protocol
      mstp|l2 protocol ptp|l2 protocol all)
```

no debug pktmgr

Netconf RPC payload

```
       <pktmgr-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
    no debug pktmgr
```

debug pktmgr enable

Netconf RPC payload

```
       <pktmgr-debug-statistics-enable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
debug pktmgr enable
```

debug pktmgr disable

Netconf RPC payload

```
       <pktmgr-debug-statistics-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
debug pktmgr disable
```

debug pktmgr stats

Netconf RPC payload

```
       <pktmgr-debug-statistics-get xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
debug pktmgr stats
```

debug pktmgr (stats|pkt-errors)

Attribute Name: debug-error-statistics

Attribute Type: enum (stats|pkt-errors)

Netconf RPC payload

```
       <pktmgr-debug-error-statistics-get xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager">
       <debug-error-statistics>stats</debug-error-statistics>
       </pktmgr-debug-error-statistics-get>
```

Command Syntax

```
debug pktmgr (stats|pkt-errors)
```

clear nsm ipc stats

Netconf RPC payload

```
       <clear-nsm-ipc-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
clear nsm ipc stats
```

clear nsm server ipc-stats

Netconf RPC payload

```
<clear-nsm-server-ipc-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-network-services-manager"/>
```

Command Syntax

```
clear nsm server ipc-stats
```

snmp restart nsm

Netconf RPC payload

```
<nsm-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
services-manager"/>
```

Command Syntax

```
snmp restart nsm
```

debug nsm mpls dev

Netconf RPC payload

```
<nsm-terminal-debug-nsm-mpls-dev-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-network-services-manager"/>
```

Command Syntax

```
debug nsm mpls dev
```

no debug nsm mpls dev

Netconf RPC payload

```
<nsm-terminal-debug-nsm-mpls-dev-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-network-services-manager"/>
```

Command Syntax

```
no debug nsm mpls dev
```

IPI-BRIDGE

Configure enable

Use this attribute to enable global bridge vlan check

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<global-bridge-vlan-check xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
<global>
<config>
   </enable><!-- operation="delete"-->
</config>
</global>
</global-bridge-vlan-check>
```

Command Syntax

```
global-bridge-vlan-check enable
```

Configure protocol

Bridge protocol type

Attribute Name: protocol

Attribute Type: enum (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|provider-rstp|provider-mstp|rstp ring|mstp ring|provider-rstp edge|provider-mstp edge|rstp vlan-bridge ring)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <config>
            <protocol>ieee</protocol>
      </config>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge <1-32> protocol (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|rstp
  ring|mstp ring|rstp vlan-bridge ring)
```

Configure instance name

Bridge protocol type

Attribute Name: protocol

Attribute Type: enum (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|provider-rstp|provider-mstp|rstp ring|mstp ring|provider-rstp edge|provider-mstp edge|rstp vlan-bridge ring)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <config>
            <protocol>ieee</protocol>
      </config>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge <1-32> protocol (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|provider-rstp|provider-mstp|rstp ring|mstp ring|provider-rstp edge|provider-mstp edge|rstp vlan-bridge ring)
```

Configure disable dynamic learning

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: disable-dynamic-learning

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-instance">
   <network-instance>
      <instance-type>vrf</instance-type>
      <config>
         <instance-type>vrf</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <bridge>
   <config>
```

```
      </disable-dynamic-learning>
   </config>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    no bridge <1-32> acquire
```

Configure l2 protocol destination mac

This attribute changes L2 protocol destination MAC

Attribute Name: l2-protocol-destination-mac

Attribute Type: string

Default Value: 0100.C2CD.CDD0

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <config>
            <l2-protocol-destination-mac>XXXX.XXXX.XXXX</l2-protocol-destination-mac>
<!-- operation="delete"-->
      </config>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    bridge <1-32> l2protocol encapsulation dest-mac XXXX.XXXX.XXXX
```

Configure dot1ad encapsulation

Configure to use encapsulated dot1ad value for switching and routing by bridge ports

Attribute Name: dot1ad-encapsulation

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
```

```
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <config>
            </dot1ad-encapsulation><!-- operation="delete"-->
      </config>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> encapsulation dot1ad
```

Configure spanning tree protocol status

Attribute specifies to enable/disable Spanning Tree Protocol on a interface

Attribute Name: spanning-tree-protocol-status

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <bridge-ports>
      <interface>
         <name>WORD</name>
         <config>
            <name>WORD</name>
         </config>
            <spanning-tree-protocol-status>enable</spanning-tree-protocol-status>
      </interface>
   </bridge-ports>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge-group <1-32> (spanning-tree (enable|disable)|)
```

Configure disable mac learning

Use this attribute to disable MAC learning on a interface

Attribute Name: disable-mac-learning

Attribute Type: uint8

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <fdb>
      <interfaces>
      <interface>
         <interface-name>IFNAME</interface-name>
         <config>
            <interface-name>WORD</interface-name>
         </config>
            </disable-mac-learning><!-- operation="delete"-->
      </interface>
   </interfaces>
   </fdb>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 no mac-address-table learning bridge <1-32> interface IFNAME
```

Configure interface name

The textual name of the interface

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: action

Attribute Type: enum (discard|forward)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```
<network-instance>
    <instance-name>1</instance-name>
    <config>
        <instance-name>WORD</instance-name>
        <instance-type>l2ni</instance-type>
    </config>
        <instance-type>l2ni</instance-type>
    <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
    <fdb>
    <static-mac-table>
    <entry>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
        <config>
            <mac-address>XXXX.XXXX.XXXX</mac-address>
            <action>discard</action>
        </config>
            <interface-name>IFNAME</interface-name>
    </entry>
</static-mac-table>
</fdb>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME
```

clear mac address-table (multicast) cvlan VID svlan VID bridge <1-32>

Attribute Name: mac-type

Attribute Type: enum (multicast)

Attribute Name: cvlan-id

Attribute Type: uint16

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <bridge-clear-provider-edge-mac-address-table xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-bridge">
       <mac-type>multicast</mac-type>
       <cvlan-id>VID</cvlan-id>
       <svlan-id>VID</svlan-id>
       <bridge-id>1</bridge-id>
       </bridge-clear-provider-edge-mac-address-table>
```

Command Syntax

```
clear mac address-table (multicast) cvlan VID svlan VID bridge <1-32>
```

clear mac address-table (multicast) (interface IFNAME|) (address MACADDR|) (vlan VID|) bridge <1-32>

Attribute Name: mac-type

Attribute Type: enum (multicast)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: mac-address

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <bridge-clear-mac-address-table xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
bridge">
       <mac-type>multicast</mac-type>
       <interface-name>IFNAME</interface-name>
       <mac-address>MACADDR</mac-address>
       <vlan-id>VID</vlan-id>
       <bridge-id>1</bridge-id>
       </bridge-clear-mac-address-table>
```

Command Syntax

```
clear mac address-table (multicast) (interface IFNAME|) (address MACADDR|) (vlan
  VID|) bridge <1-32>
```

clear mac address-table dynamic cvlan VID svlan VID bridge <1-32>

Attribute Name: cvlan-id

Attribute Type: uint16

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <bridge-clear-provider-edge-dynamic-mac-address-table xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bridge">
```

```
<cvlan-id>VID</cvlan-id>
<svlan-id>VID</svlan-id>
<bridge-id>1</bridge-id>
</bridge-clear-provider-edge-dynamic-mac-address-table>
```

Command Syntax

```
clear mac address-table dynamic cvlan VID svlan VID bridge <1-32>
```

clear mac address-table dynamic (interface IFNAME|) (address MACADDR|) (vlan VID|) bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: mac-address

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
<bridge-clear-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-bridge">
<interface-name>IFNAME</interface-name>
<mac-address>MACADDR</mac-address>
<vlan-id>VID</vlan-id>
<bridge-id>1</bridge-id>
</bridge-clear-dynamic-mac-address-table>
```

Command Syntax

```
clear mac address-table dynamic (interface IFNAME|) (address MACADDR|) (vlan VID|)
  bridge <1-32>
```

clear mac address-table dynamic interface IFNAME instance INST bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: instance-id

Attribute Type: uint32

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <bridge-clear-mstp-port-dynamic-mac-address-table xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bridge">
       <interface-name>IFNAME</interface-name>
       <instance-id>INST</instance-id>
       <bridge-id>1</bridge-id>
       </bridge-clear-mstp-port-dynamic-mac-address-table>
```

Command Syntax

```
    clear mac address-table dynamic interface IFNAME instance INST bridge <1-32>
```

IPI-VLAN

Configure disable mac learning

Use attribute to disable mac address learning

Attribute Name: disable-mac-learning

Attribute Type: uint8

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
         <vlan>
            <vlan-id>VLAN_RANGE</vlan-id>
            <config>
               <vlan-id>VLAN_RANGE</vlan-id>
            </config>
               </disable-mac-learning><!-- operation="delete"-->
         </vlan>
      </vlans>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    no mac-address-table learning bridge <1-32> vlan VLAN_RANGE
```

Configure vlan id

Vlan identifier

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 2-4094

Attribute Name: type

Attribute Type: enum (customer)

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
         <vlan> <!-- operation="delete"-->
            <vlan-id>VLAN_RANGE</vlan-id>
            <config>
               <vlan-id>VLAN_RANGE</vlan-id>
            </config>
            <customer-vlan>
            <config>
               <type>customer</type>
                  <name>WORD</name>
                     <state>disable</state>
                  </config>
               </customer-vlan>
            </vlan>
         </vlans>
      </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vlan VLAN_RANGE (type (customer)|) bridge <1-32> (name WORD|) (state
  (disable|enable)|)
```

Configure type

Vlan identifier

This command is supported when following feature are enabled Provider Bridging feature

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 2-4094

Attribute Name: type

Attribute Type: enum (point-point|multipoint-multipoint|rooted-multipoint)

Attribute Name: state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
         <vlan> <!-- operation="delete"-->
            <vlan-id>VLAN_RANGE</vlan-id>
            <config>
               <vlan-id>VLAN_RANGE</vlan-id>
            </config>
            <service-vlan>
            <config>
               <type>point-point</type>
                  <state>disable</state>
               </config>
            </service-vlan>
         </vlan>
      </vlans>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vlan VLAN_RANGE type service (point-point|multipoint-multipoint|rooted-multipoint)
  bridge <1-32> (state (disable|enable)|)
```

Configure instance name

Vlan identifier

This command is supported when following feature are enabled Provider Bridging feature

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 2-4094

Attribute Name: type

Attribute Type: enum (point-point|multipoint-multipoint|rooted-multipoint)

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
         <vlan> <!-- operation="delete"-->
            <vlan-id>VLAN_RANGE</vlan-id>
            <config>
               <vlan-id>VLAN_RANGE</vlan-id>
            </config>
            <service-vlan>
            <config>
               <type>point-point</type>
                  <name>WORD</name>
                     <state>disable</state>
                  </config>
               </service-vlan>
            </vlan>
         </vlans>
      </bridge>
```

```
</network-instance>
</network-instances>
```

Command Syntax

```
vlan VLAN_RANGE type service (point-point|multipoint-multipoint|rooted-multipoint)
  bridge <1-32> name WORD (state (disable|enable)|)
```

Configure instance type

private vlan type

This command is supported when following feature are enabled PVLAN feature

Attribute Name: type

Attribute Type: enum (community|isolated|primary)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>1</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
   </config>
      <instance-type>l2ni</instance-type>
   <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
      <vlan>
         <vlan-id>VLAN_RANGE</vlan-id>
         <config>
            <vlan-id>VLAN_RANGE</vlan-id>
         </config>
         <private-vlan>
         <config>
                <type>community</type>
         </config>
      </private-vlan>
   </vlan>
</vlans>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
private-vlan <2-4094> (community|isolated|primary) bridge <1-32>
```

Configure secondary vlan

Use this attribute to configure associated secondary vlan for private vlan

This command is supported when following feature are enabled PVLAN feature

Attribute Name: secondary-vlan

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <vlans xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
         <vlan>
            <vlan-id>VLAN_RANGE</vlan-id>
            <config>
               <vlan-id>VLAN_RANGE</vlan-id>
            </config>
            <private-vlan>
            <association>
            <config>
                  <secondary-vlan>VLAN_ID</secondary-vlan> <!-- operation="delete"-->
            </config>
         </association>
      </private-vlan>
   </vlan>
   </vlans>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 private-vlan <2-4094> association add VLAN_ID bridge <1-32>
```

Configure mac address

Use this attribute to configure classifier for given MAC address

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
   <vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
   <classifier-rules>
   <classifier-rule>
```

```
      <rule-id>1</rule-id>
      <config>
         <rule-id>1</rule-id>
      </config>
   <rule-criteria>
   <config>
         <mac-address>WORD</mac-address> <!-- operation="delete"-->
   </config>
   </rule-criteria>
   </classifier-rule>
   </classifier-rules>
   </vlan-classifier>
```

Command Syntax

```
vlan classifier rule <1-256> mac WORD
```

Configure ipv4 address

Use this attribute to configure classifier for given IPv4 address

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: ipv4-address

Attribute Type: string

Netconf edit-config payload

```
   <vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
   <classifier-rules>
   <classifier-rule>
      <rule-id>1</rule-id>
      <config>
         <rule-id>1</rule-id>
      </config>
   <rule-criteria>
   <config>
         <ipv4-address>A.B.C.D/M</ipv4-address> <!-- operation="delete"-->
   </config>
   </rule-criteria>
   </classifier-rule>
   </classifier-rules>
   </vlan-classifier>
```

Command Syntax

```
vlan classifier rule <1-256> ipv4 A.B.C.D/M
```

Configure ether type

Use this attribute to configure classifier for protocols based on Ethertype value

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: ether-type

Attribute Type: union

Netconf edit-config payload

```
<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
<classifier-rules>
<classifier-rule>
   <rule-id>1</rule-id>
   <config>
      <rule-id>1</rule-id>
   </config>
<rule-criteria>
<config>
      <ether-type>VLAN_CLASSIFIER_ETHERTYPE_T</ether-type>
</config>
</rule-criteria>
</classifier-rule>
</classifier-rules>
</vlan-classifier>
```

Command Syntax

```
 vlan classifier rule <1-256> proto
   (ETHERTYPE|ip|x25|arp|g8bpqx25|ieeepup|ieeeaddrtrans|dec|decdnadumpload|decdnare
   moteconsole|decdnarouting|declat|decdiagnostics|rarp|atalkddp|atalkaarp|ipx|ipv6
   |atmmulti|pppdiscovery|pppsession|atmtransport)
```

Configure group id

Classifier group ID

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: group-id

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```
<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
<classifier-groups>
<classifier-group> <!-- operation="delete"-->
   <rule-id>1</rule-id>
   <config>
      <rule-id>1</rule-id>
      <group-id>1</group-id>
   </config>
   <group-id>1</group-id>
</classifier-group>
</classifier-groups>
</vlan-classifier>
```

Command Syntax

```
vlan classifier group <1-16> add rule <1-256>
```

Configure port name

VLAN classifier group ID

This command is supported when following feature are enabled VLAN Classifier feature

Attribute Name: group-id

Attribute Type: uint8

Attribute Range: 1-16

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<vlan-classifier xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
<ports>
<port> <!-- operation="delete"-->
   <group-id>1</group-id>
   <config>
      <group-id>1</group-id>
      <port-name>WORD</port-name>
      <vlan-id>2</vlan-id>
   </config>
   <port-name>WORD</port-name>
</port>
</ports>
</vlan-classifier>
```

Command Syntax

```
vlan classifier activate <1-16> vlan <2-4094>
```

Configure disable vlan classifier feature

Use this command to enable or disable VLAN classifier feature.

Attribute Name: disable-vlan-classifier-feature

Attribute Type: uint8

Netconf edit-config payload

```
<layer2-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
<config>
   </disable-vlan-classifier-feature><!-- operation="delete"-->
</config>
</layer2-global>
```

Command Syntax

```
no feature vlan classifier
```

Configure disable port security

Use this attribute to disable or enable port-security globally.

Attribute Name: disable-port-security

Attribute Type: uint8

Netconf edit-config payload

```
<layer2-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
<config>
   </disable-port-security>
</config>
</layer2-global>
```

Command Syntax

```
port-security disable
```

Configure vlan xlate 1

Use this attribute to set vlan xlate

Attribute Name: vlan-xlate-1

Attribute Type: empty

Netconf edit-config payload

```
<layer2-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
<config>
   </vlan-xlate-1><!-- operation="delete"-->
</config>
</layer2-global>
```

Command Syntax

```
vlan-xlate-1 large
```

Configure table name

Use this to configure the name of the CVLAN registration table.

This command is supported when following feature are enabled VLAN feature,Provider Bridging feature

Attribute Name: table-name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
```

```
       <instance-name>WORD</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>l2ni</instance-type>
       </config>
          <instance-type>l2ni</instance-type>
       <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
          <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
          <cvlan-registration-table> <!-- operation="delete"-->
             <table-name>WORD</table-name>
             <config>
                <table-name>WORD</table-name>
             </config>
          </cvlan-registration-table>
       </cvlan-registration-tables>
    </bridge>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 cvlan registration table WORD bridge <1-32>
```

Configure svlan id

Service VLAN ID in registration table

This command is supported when following feature are enabled VLAN feature,Provider Bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>WORD</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
          <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
          <cvlan-registration-table>
```

```
            <table-name>WORD</table-name>
            <config>
               <table-name>WORD</table-name>
            </config>
            <cvlan-mappings>
            <cvlan-mapping>
               <cvlan-id>VLAN_RANGE2</cvlan-id>
               <config>
                  <cvlan-id>VLAN_RANGE2</cvlan-id>
                  <svlan-id>1</svlan-id>
                  <translated-cvlan-id>1</translated-cvlan-id>
               </config>
                  <svlan-id>1</svlan-id>
            </cvlan-mapping>
         </cvlan-mappings>
      </cvlan-registration-table>
   </cvlan-registration-tables>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 cvlan VLAN_RANGE2 cvlan <1-4095> svlan <1-4095>
```

Configure cvlan id

Service VLAN ID in registration table

This command is supported when following feature are enabled VLAN feature,Provider Bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
         <cvlan-registration-table>
            <table-name>WORD</table-name>
            <config>
               <table-name>WORD</table-name>
```

```
            </config>
            <cvlan-mappings>
            <cvlan-mapping>
               <cvlan-id>VLAN_RANGE2</cvlan-id>
               <config>
                  <cvlan-id>VLAN_RANGE2</cvlan-id>
                  <svlan-id>1</svlan-id>
               </config>
                  <svlan-id>1</svlan-id>
            </cvlan-mapping>
         </cvlan-mappings>
      </cvlan-registration-table>
   </cvlan-registration-tables>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 cvlan VLAN_RANGE2 svlan <1-4095>
```

Configure cos to queue

Name of CoS to queue profile to map to CVLAN ID

This command is supported when following feature are enabled VLAN feature,Provider Bridging feature

Attribute Name: cos-to-queue

Attribute Type: string

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: remark-cos

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
         <cvlan-registration-table>
            <table-name>WORD</table-name>
```

```
            <config>
               <table-name>WORD</table-name>
            </config>
            <cvlan-mappings>
            <cvlan-mapping>
               <cvlan-id>VLAN_RANGE2</cvlan-id>
               <config>
                  <cvlan-id>VLAN_RANGE2</cvlan-id>
                  <svlan-id>1</svlan-id>
                  <translated-cvlan-id>1</translated-cvlan-id>
                  </remark-cos>
               </config>
                  <svlan-id>1</svlan-id>
                  <cos-to-queue>NAME</cos-to-queue>
            </cvlan-mapping>
         </cvlan-mappings>
      </cvlan-registration-table>
   </cvlan-registration-tables>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 cvlan VLAN_RANGE2 cvlan <1-4095> svlan <1-4095> ({ remark-cos| cos-to-queue NAME
   }|)
```

Configure untagged ep

Customer/provider edge port is untagged for specified CVLAN

This command is supported when following feature are enabled VLAN feature,Provider Bridging feature

Attribute Name: untagged-ep

Attribute Type: bits (default|untagged-pep|untagged-cep)

Attribute Name: remark-cos

Attribute Type: empty

Attribute Name: cos-to-queue

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
```

```
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <cvlan-registration-tables xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan">
         <cvlan-registration-table>
            <table-name>WORD</table-name>
            <config>
               <table-name>WORD</table-name>
            </config>
            <cvlan-mappings>
            <cvlan-mapping>
               <cvlan-id>VLAN_RANGE2</cvlan-id>
               <config>
                  <cvlan-id>VLAN_RANGE2</cvlan-id>
                  <svlan-id>1</svlan-id>
                  </remark-cos>
                  <cos-to-queue>NAME</cos-to-queue>
               </config>
                  <svlan-id>1</svlan-id>
                  <untagged-ep>untagged-pep</untagged-ep>
            </cvlan-mapping>
         </cvlan-mappings>
      </cvlan-registration-table>
   </cvlan-registration-tables>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
cvlan VLAN_RANGE2 svlan <1-4095> ({ remark-cos| cos-to-queue NAME| untagged-
  pep|untagged-cep }|)
```

IPI-PORT-VLAN

Configure isolated vlan id

Isolated VLAN identifier

Attribute Name: isolated-vlan-id

Attribute Type: string

Attribute Range: 2-4094,2-4094

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
```

```
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <global>
      <config>
            <isolated-vlan-id>2</isolated-vlan-id> <!-- operation="delete"-->
      </config>
   </global>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
    switchport (provider-network) isolated-vlan WORD
```

Configure cvlan registration table

cvlan registration table

Attribute Name: cvlan-registration-table

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <global>
      <config>
            <cvlan-registration-table>WORD</cvlan-registration-table> <!--
operation="delete"-->
      </config>
   </global>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
    switchport (customer-edge) vlan registration WORD
```

Configure interface mode

Set the interface to access or trunk or hybrid mode for VLANs

Attribute Name: interface-mode

Attribute Type: enum (access|hybrid|trunk|customer-network|provider-network|customer-edge access|customer-edge hybrid|customer-edge trunk)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan> <!-- operation="delete"-->
      <interface-mode>access</interface-mode>
      <config>
         <interface-mode>access</interface-mode>
      </config>
   </switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport mode (access|hybrid|trunk|provider-network|customer-edge
  access|customer-edge hybrid|customer-edge trunk)
```

Configure name

Set the interface to access or trunk or hybrid mode for VLANs

Attribute Name: interface-mode

Attribute Type: enum (access|hybrid|trunk|customer-network|provider-network|customer-edge access|customer-edge hybrid|customer-edge trunk)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan> <!-- operation="delete"-->
      <interface-mode>access</interface-mode>
      <config>
         <interface-mode>access</interface-mode>
      </config>
   </switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
```

```
   </interfaces>
```

Command Syntax

```
    switchport mode (customer-network)
```

Configure acceptable frame type

Use this attribute to set the interface acceptable frame types. This processing occurs after VLAN classification

Attribute Name: acceptable-frame-type

Attribute Type: enum (vlan-tagged|all)

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
      <switched-vlan>
         <interface-mode>access</interface-mode>
         <config>
            <interface-mode>access</interface-mode>
         </config>
            <acceptable-frame-type>all</acceptable-frame-type> <!--
operation="delete"-->
      </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
    switchport mode (hybrid) acceptable-frame-type (vlan-tagged|all)
```

Configure switched-vlan acceptable-frame-type

Use this attribute to set the interface acceptable frame types. This processing occurs after VLAN classification

Attribute Name: acceptable-frame-type

Attribute Type: enum (vlan-tagged|all)

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
```

```
       </config>
       <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
       <switched-vlans>
       <switched-vlan>
          <interface-mode>access</interface-mode>
          <config>
             <interface-mode>access</interface-mode>
          </config>
             <acceptable-frame-type>all</acceptable-frame-type> <!--
operation="delete"-->
       </switched-vlan>
    </switched-vlans>
    </port-vlan>
    </interface>
    </interfaces>
```

Command Syntax

```
     switchport mode (customer-edge hybrid) acceptable-frame-type (vlan-tagged|all)
```

Configure disable native vlan

Use this attribute to disable native VLAN for the port. Untagged frames will be dropped.

Attribute Name: disable-native-vlan

Attribute Type: uint8

Netconf edit-config payload

```
    <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
    <interface>
       <name>IFNAME</name>
       <config>
          <name>IFNAME</name>
       </config>
       <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
       <switched-vlans>
       <switched-vlan>
          <interface-mode>access</interface-mode>
          <config>
             <interface-mode>access</interface-mode>
          </config>
             </disable-native-vlan><!-- operation="delete"-->
       </switched-vlan>
    </switched-vlans>
    </port-vlan>
    </interface>
    </interfaces>
```

Command Syntax

```
     switchport mode (trunk) disable-native-vlan
```

Configure remove default vlan

Use this attribute to remove default VLAN for the port. Untagged frames will be dropped.

Attribute Name: remove-default-vlan

Attribute Type: uint8

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
         <interface-mode>access</interface-mode>
      </config>
         </remove-default-vlan><!-- operation="delete"-->
   </switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
 switchport mode (trunk) remove-default-vlan
```

Configure vlan id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
```

```
            <interface-mode>access</interface-mode>
         </config>
         <vlans>
         <config>
                <vlan-id>2</vlan-id> <!-- operation="delete"-->
         </config>
      </vlans>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
switchport (access|hybrid) vlan <2-4094>
```

Configure vlans vlan-id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
         <interface-mode>access</interface-mode>
      </config>
      <vlans>
      <config>
             <vlan-id>2</vlan-id> <!-- operation="delete"-->
      </config>
   </vlans>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport (customer-network) vlan <2-4094>
```

Configure vlans vlan-id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
         <interface-mode>access</interface-mode>
      </config>
      <vlans>
      <config>
            <vlan-id>2</vlan-id> <!-- operation="delete"-->
      </config>
   </vlans>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
 switchport (customer-edge access) vlan <2-4094>
```

Configure vlans vlan-id

Default VLAN identifier

Attribute Name: vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
```

```
    <switched-vlans>
    <switched-vlan>
       <interface-mode>access</interface-mode>
       <config>
          <interface-mode>access</interface-mode>
       </config>
       <vlans>
       <config>
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
       </config>
    </vlans>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport (customer-edge hybrid) vlan <1-4094>
```

Configure native vlan id

Native VLAN ID

Attribute Name: native-vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
         <interface-mode>access</interface-mode>
      </config>
      <vlans>
      <config>
             <native-vlan-id>2</native-vlan-id> <!-- operation="delete"-->
      </config>
   </vlans>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
```

```
   </interfaces>
```

Command Syntax

```
    switchport (trunk) native vlan <2-4094>
```

Configure translated svlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
      <switched-vlan>
         <interface-mode>access</interface-mode>
         <config>
            <interface-mode>access</interface-mode>
         </config>
         <svlan-translations>
         <svlan-translation>
            <original-svlan-id>VLAN_ID</original-svlan-id>
            <config>
               <original-svlan-id>VLAN_ID</original-svlan-id>
            </config>
               <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
         </svlan-translation>
      </svlan-translations>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
    switchport (provider-network) vlan translation svlan VLAN_ID svlan VLAN_ID
```

Configure original svlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
      <switched-vlan>
         <interface-mode>access</interface-mode>
         <config>
            <interface-mode>access</interface-mode>
         </config>
         <svlan-translations>
         <svlan-translation>
            <original-svlan-id>VLAN_ID</original-svlan-id>
            <config>
               <original-svlan-id>VLAN_ID</original-svlan-id>
            </config>
               <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
         </svlan-translation>
      </svlan-translations>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
    switchport (customer-network) vlan translation svlan VLAN_ID svlan VLAN_ID
```

Configure translated cvlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
      <switched-vlan>
         <interface-mode>access</interface-mode>
         <config>
            <interface-mode>access</interface-mode>
         </config>
         <svlan-translations>
         <svlan-translation>
            <original-svlan-id>VLAN_ID</original-svlan-id>
            <config>
               <original-svlan-id>VLAN_ID</original-svlan-id>
               <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"--
>
            </config>
               <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
         </svlan-translation>
      </svlan-translations>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
    switchport (provider-network) vlan translation svlan VLAN_ID cvlan <1-4095> svlan
      VLAN_ID
```

Configure svlan-translation translated-svlan-id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
```

```
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
      <switched-vlan>
         <interface-mode>access</interface-mode>
         <config>
            <interface-mode>access</interface-mode>
         </config>
         <svlan-translations>
         <svlan-translation>
            <original-svlan-id>VLAN_ID</original-svlan-id>
            <config>
               <original-svlan-id>VLAN_ID</original-svlan-id>
               <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"--
>
            </config>
               <translated-svlan-id>VLAN_ID</translated-svlan-id> <!--
operation="delete"-->
         </svlan-translation>
      </svlan-translations>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
switchport (customer-network) vlan translation svlan VLAN_ID cvlan <1-4095> svlan
  VLAN_ID
```

Configure cvlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
```

```
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <switched-vlans>
    <switched-vlan>
       <interface-mode>access</interface-mode>
       <config>
          <interface-mode>access</interface-mode>
       </config>
       <cvlan-svlan-translations>
       <cvlan-svlan-translation>
          <svlan-id>1</svlan-id>
          <config>
             <svlan-id>1</svlan-id>
             <cvlan-id>1</cvlan-id>
          </config>
             <cvlan-id>1</cvlan-id>
             <translated-svlan-id>1</translated-svlan-id>
       </cvlan-svlan-translation>
    </cvlan-svlan-translations>
</switched-vlan>
</switched-vlans>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport (provider-network) vlan translation cvlan <1-4095> svlan <1-4095> svlan
  <1-4095>
```

Configure svlan id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <switched-vlans>
   <switched-vlan>
      <interface-mode>access</interface-mode>
      <config>
```

```
            <interface-mode>access</interface-mode>
         </config>
         <cvlan-svlan-translations>
         <cvlan-svlan-translation>
            <svlan-id>1</svlan-id>
            <config>
               <svlan-id>1</svlan-id>
               <cvlan-id>1</cvlan-id>
            </config>
               <cvlan-id>1</cvlan-id>
               <translated-svlan-id>1</translated-svlan-id>
         </cvlan-svlan-translation>
      </cvlan-svlan-translations>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
switchport (customer-network) vlan translation cvlan <1-4095> svlan <1-4095> svlan
  <1-4095>
```

Configure cvlan-svlan-translation translated-svlan-id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
      <switched-vlan>
         <interface-mode>access</interface-mode>
         <config>
            <interface-mode>access</interface-mode>
```

```
          </config>
          <cvlan-svlan-translations>
          <cvlan-svlan-translation>
             <svlan-id>1</svlan-id>
             <config>
                <svlan-id>1</svlan-id>
                <cvlan-id>1</cvlan-id>
                <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"--
>
             </config>
                <cvlan-id>1</cvlan-id>
                <translated-svlan-id>1</translated-svlan-id> <!-- operation="delete"--
>
          </cvlan-svlan-translation>
       </cvlan-svlan-translations>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
switchport (provider-network) vlan translation cvlan <1-4095> svlan <1-4095> cvlan
  <1-4095> svlan <1-4095>
```

Configure cvlan-svlan-translation translated-svlan-id

Specifies translated service VLAN identifier

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: translated-svlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlans>
      <switched-vlan>
         <interface-mode>access</interface-mode>
         <config>
```

```
            <interface-mode>access</interface-mode>
         </config>
         <cvlan-svlan-translations>
         <cvlan-svlan-translation>
            <svlan-id>1</svlan-id>
            <config>
               <svlan-id>1</svlan-id>
               <cvlan-id>1</cvlan-id>
               <translated-cvlan-id>1</translated-cvlan-id> <!-- operation="delete"--
>
            </config>
               <cvlan-id>1</cvlan-id>
               <translated-svlan-id>1</translated-svlan-id> <!-- operation="delete"--
>
         </cvlan-svlan-translation>
       </cvlan-svlan-translations>
   </switched-vlan>
   </switched-vlans>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
switchport (customer-network) vlan translation cvlan <1-4095> svlan <1-4095> cvlan
  <1-4095> svlan <1-4095>
```

Configure logging

port security logging

Attribute Name: logging

Attribute Type: uint8

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <port-security>
      <config>
             </logging><!-- operation="delete"-->
      </config>
   </port-security>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
switchport port-security logging enable
```

Configure mode

port security mode type

Attribute Name: mode

Attribute Type: enum (static|default)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <port-security>
   <config>
         <mode>2</mode>
   </config>
</port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security
```

Configure port-security mode

port security mode type

Attribute Name: mode

Attribute Type: enum (static|default)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <port-security>
   <config>
         <mode>static</mode>
   </config>
</port-security>
```

```
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security (static)
```

Configure maximum limit

Maximum limit for port security

Attribute Name: maximum-limit

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-1000

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <port-security>
   <config>
          <maximum-limit>1</maximum-limit> <!-- operation="delete"-->
   </config>
</port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security maximum <1-1000>
```

Configure mac address

Use this attribute to configure the static forwarding entry for port-security

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
```

```
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <port-security>
    <secure-mac>
    <default-vlan-mappings>
    <default-vlan-mapping> <!-- operation="delete"-->
        <mac-address>XXXX.XXXX.XXXX</mac-address>
        <config>
            <mac-address>XXXX.XXXX.XXXX</mac-address>
        </config>
    </default-vlan-mapping>
</default-vlan-mappings>
</secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX
```

Configure vlan-mapping cvlan-id

Use this attribute to configure the port-security with static forwarding entry and CVLAN ID

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: cvlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <port-security>
    <secure-mac>
    <vlan-mappings>
    <vlan-mapping>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
        <config>
            <mac-address>XXXX.XXXX.XXXX</mac-address>
        </config>
            <cvlan-id>2</cvlan-id> <!-- operation="delete"-->
    </vlan-mapping>
</vlan-mappings>
</secure-mac>
```

```
</port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX vlanId <2-4094>
```

Configure vlan-mapping svlan-id

Use this attribute to configure the port-security with static forwarding entry and SVLAN ID

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <port-security>
   <secure-mac>
   <vlan-mappings>
   <vlan-mapping>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
      <config>
         <mac-address>XXXX.XXXX.XXXX</mac-address>
      </config>
         <svlan-id>2</svlan-id> <!-- operation="delete"-->
   </vlan-mapping>
</vlan-mappings>
</secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX svlanId <2-4094>
```

Configure cvlan-svlan-mappings svlan-id

Use this attribute to configure the port-security with static forwarding entry and SVLAN ID

This command is supported when following feature are enabled Provider bridging feature

Attribute Name: svlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <port-security>
   <secure-mac>
   <cvlan-svlan-mappings>
   <cvlan-svlan-mapping> <!-- operation="delete"-->
      <svlan-id>2</svlan-id>
      <config>
         <svlan-id>2</svlan-id>
         <cvlan-id>2</cvlan-id>
         <mac-address>XXXX.XXXX.XXXX</mac-address>
      </config>
         <cvlan-id>2</cvlan-id>
         <mac-address>XXXX.XXXX.XXXX</mac-address>
   </cvlan-svlan-mapping>
</cvlan-svlan-mappings>
</secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX vlanId <2-4094> svlanId <2-
  4094>
```

Configure private-vlan mode

Use this attribute to make a layer2 port as a host port or promiscuous port or pvlan-trunk port

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: mode

Attribute Type: enum (host|promiscuous|trunk)

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
```

```
    <private-vlan>
    <config>
           <mode>host</mode>
    </config>
</private-vlan>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport mode private-vlan (host|promiscuous|trunk)
```

Configure associate vlan id

Private VLAN Association

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: associate-vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
    <private-vlan>
    <associations>
    <association>
        <vlan-id>2</vlan-id>
        <config>
            <vlan-id>2</vlan-id>
        </config>
            <associate-vlan-id>2</associate-vlan-id>
    </association>
</associations>
</private-vlan>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport private-vlan host-association <2-4094> add <2-4094>
```

Configure mapping vlan id

Primary vlan identifier

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Name: mapping-vlan-id

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
   <private-vlan>
   <associations>
   <association> <!-- operation="delete"-->
      <vlan-id>2</vlan-id>
      <config>
         <vlan-id>2</vlan-id>
         <mapping-vlan-id>VLAN_ID</mapping-vlan-id>
      </config>
   </association>
</associations>
</private-vlan>
</port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport private-vlan mapping <2-4094> add VLAN_ID
```

Configure association trunk vlan id

private-vlan Mapping

This command is supported when following feature are enabled Private VLAN feature

Attribute Name: association-trunk-vlan-id

Attribute Type: uint16

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
```

```
      <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <private-vlan>
      <associations>
      <association>
         <vlan-id>2</vlan-id>
         <config>
            <vlan-id>2</vlan-id>
         </config>
            <association-trunk-vlan-id>2</association-trunk-vlan-id>
      </association>
   </associations>
   </private-vlan>
   </port-vlan>
   </interface>
   </interfaces>
```

Command Syntax

```
switchport private-vlan association-trunk <2-4094> <2-4094>
```

Configure instance name

Specifies service VLAN identifier for static MAC entry

Attribute Name: svlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: action

Attribute Type: enum (discard|forward)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <vlan-static-fdb xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
         <entries>
         <entry>
            <vlan-id>2</vlan-id>
            <config>
```

```
                <vlan-id>2</vlan-id>
                <mac-address>XXXX.XXXX.XXXX</mac-address>
                <action>discard</action>
                <interface-name>IFNAME</interface-name>
             </config>
                <mac-address>XXXX.XXXX.XXXX</mac-address>
                <svlan-id>2</svlan-id>
          </entry>
       </entries>
   </vlan-static-fdb>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME vlan <2-4094> svlan
  <2-4094>
```

Configure instance type

Specifies VLAN identifier for static MAC entry in case of provider-network VLAN will be considered as service VLAN

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: action

Attribute Type: enum (discard|forward)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <vlan-static-fdb xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
         <entries>
         <entry>
            <vlan-id>2</vlan-id>
            <config>
               <vlan-id>2</vlan-id>
```

```
                <mac-address>XXXX.XXXX.XXXX</mac-address>
                <action>discard</action>
                <interface-name>IFNAME</interface-name>
             </config>
                <mac-address>XXXX.XXXX.XXXX</mac-address>
          </entry>
       </entries>
   </vlan-static-fdb>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME vlan <2-4094>
```

IPI-XSTP

Configure ageing time

Use this attribute to specify the aging-out time for a learned MAC address. The learned MAC address persists until this specified time. Setting value to 0 would disable ageing of the bridge.

Attribute Name: ageing-time

Attribute Type: union

Default Value: 300

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                <ageing-time>300</ageing-time> <!-- operation="delete"-->
         </config>
      </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge <1-32> ageing disable
```

Configure instance name

Use this attribute to specify the aging-out time for a learned MAC address. The learned MAC address persists until this specified time. Setting value to 0 would disable ageing of the bridge.

Attribute Name: ageing-time

Attribute Type: union

Default Value: 300

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                <ageing-time>300</ageing-time> <!-- operation="delete"-->
         </config>
      </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    bridge <1-32> ageing-time (0|<10-572>)
```

Configure enable cisco interoperability

Use this attribute to enable/disable Cisco interoperability for MSTP (Multiple Spanning Tree Protocol). If Cisco interoperability is required, all devices in the switched LAN must be Cisco-interoperability enabled. When router interoperates with Cisco, the only criteria used to classify a region are the region name and revision level. VLAN-to-instance mapping is not used to classify regions when interoperating with Cisco.

Attribute Name: enable-cisco-interoperability

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
```

```
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                </enable-cisco-interoperability><!-- operation="delete"-->
         </config>
      </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge <1-32> cisco-interoperability enable
```

Configure forwarding delay

Use this attribute to set the time (in seconds) after which (if this bridge is the root bridge) each port changes states to learning and forwarding. This value is used by all instances

Attribute Name: forwarding-delay

Attribute Type: uint8

Default Value: 15

Attribute Range: 4-30

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                <forwarding-delay>4</forwarding-delay> <!-- operation="delete"-->
         </config>
      </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge <1-32> forward-time <4-30>
```

Configure hello time

Use this attribute to set the hello-time, the time in seconds after which (if this bridge is the root bridge) all the bridges in a bridged LAN exchange Bridge Protocol Data Units (BPDUs). A very low value of this parameter leads to excessive traffic on the network, while a higher value delays the detection of topology change.This value is used by all instances.Configure the bridge instance name beforeusing this attribute. The allowable range of values is 1-10 seconds. However, make sure that the value of hello time is always greater than the value of hold time (2 seconds by default)

Attribute Name: hello-time

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                <hello-time>1</hello-time> <!-- operation="delete"-->
         </config>
      </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> hello-time <1-10>
```

Configure max age

Use this attribute to set the maximum age for a bridge. This value is used by all instances. Maximum age is the maximum time in seconds for which (if a bridge is the root bridge) a message is considered valid. This prevents the frames from looping indefinitely. The value of maximum age should be greater than twice the value of hello time plus 1, but less than twice the value of forward delay minus 1. The allowable range for max-age is 6-40 seconds. Configure this value sufficiently high, so that a frame generated by root can be propagated to the leaf nodes without exceeding the maximum age.

Attribute Name: max-age

Attribute Type: uint8

Default Value: 20

Attribute Range: 6-40

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                <max-age>6</max-age> <!-- operation="delete"-->
         </config>
      </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> max-age <6-40>
```

Configure max hops

Use this attribute to specify the maximum allowed hops for a BPDU in an MST region. This parameter is used by all the instances of the MST. Specifying the maximum hops for a BPDU prevents the messages from looping indefinitely in the network. When a bridge receives an MST BPDU that has exceeded the allowed maximum hops, it discards the BPDU.

Attribute Name: max-hops

Attribute Type: uint8

Default Value: 20

Attribute Range: 1-40

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                <max-hops>1</max-hops> <!-- operation="delete"-->
         </config>
      </stp>
```

```
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> max-hops <1-40>
```

Configure bridge priority

Use this attribute to set the bridge priority for the common instance. Using a lower priority indicates a greater likelihood of the bridge becoming root. The priority values can be set only in increments of 4096.

Attribute Name: bridge-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-61440

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>1</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
   </config>
      <instance-type>l2ni</instance-type>
   <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <config>
             <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
      </config>
   </stp>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> priority <0-61440>
```

Configure transmit hold count

Use this attribute to set the maximum number of transmissions of BPDUs by the transmit state machine

Attribute Name: transmit-hold-count

Attribute Type: uint8

Default Value: 6

Attribute Range: 1-10

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <config>
                <transmit-hold-count>1</transmit-hold-count> <!-- operation="delete"--
>
         </config>
      </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> transmit-holdcount <1-10>
```

Configure enable bpdu filter

All ports that have their BPDU filter set to default take the same value of BPDU filter as that of the bridge. The Spanning Tree Protocol sends BPDUs from all ports. Enabling the BPDU Filter feature ensures that PortFast-enabled ports do not transmit or receive any BPDUs.

Attribute Name: enable-bpdu-filter

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <global>
         <config>
                </enable-bpdu-filter><!-- operation="delete"-->
         </config>
      </global>
   </stp>
```

```
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    bridge <1-32> spanning-tree portfast bpdu-filter
```

Configure enable bpdu guard

Use this attribute to set the portfast BPDU (Bridge Protocol Data Unit) guard or filter for the bridge

Attribute Name: enable-bpdu-guard

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <global>
         <config>
                </enable-bpdu-guard><!-- operation="delete"-->
         </config>
      </global>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    bridge <1-32> spanning-tree portfast bpdu-guard
```

Configure enable error disable timeout

Use this attribute to enable the error-disable-timeout facility, which sets a timeout for ports that are disabled due to the BPDU guard feature. The BPDU guard feature shuts down the port on receiving a BPDU on a BPDU-guard enabled port. This attribute associates a timer with the feature such that the port gets enabled back without manual intervention after a set interval.

Attribute Name: enable-error-disable-timeout

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <global>
         <config>
                </enable-error-disable-timeout><!-- operation="delete"-->
         </config>
      </global>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> spanning-tree errdisable-timeout enable
```

Configure force version

Use this attribute to set the version for the bridge. A version identifier of less than a value of 2 enforces the spanning tree protocol. Although the attribute supports an input range of 0-4, for RSTP, the valid range is 0-2. When the force-version is set for a bridge, all ports of the bridge have the same spanning tree version set.

Attribute Name: force-version

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-4

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <global>
         <config>
```

```
                <force-version>0</force-version> <!-- operation="delete"-->
          </config>
       </global>
    </stp>
    </bridge>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 bridge <1-32> spanning-tree force-version <0-4>
```

Configure path cost method

Use this attribute to set a spanning-tree path cost method. If the short parameter is used, the switch uses a value for the default path cost a number in the range 1 through 65,535. If the long parameter is used, the switch uses a value for the default path cost a number in the range 1 through 200,000,000.

Attribute Name: path-cost-method

Attribute Type: enum (short|long|default)

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>1</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>l2ni</instance-type>
       </config>
          <instance-type>l2ni</instance-type>
       <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
          <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
          <global>
          <config>
                <path-cost-method>default</path-cost-method> <!-- operation="delete"--
>
          </config>
       </global>
    </stp>
    </bridge>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 bridge <1-32> spanning-tree pathcost method (short|long)
```

Configure bridge type

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number

between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <stp>
   <global>
   <bridge-admins>
   <bridge-admin>
      <bridge-type>spanning-tree</bridge-type>
         </disable-spanning-tree>
      </bridge-admin>
   </bridge-admins>
   </global>
   </stp>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 no bridge <1-32> (rapid-spanning-tree|multiple-spanning-tree) enable
```

Configure disable spanning tree

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Attribute Name: bridge-forwarding

Attribute Type: enum (bridge-blocked|bridge-forward)

Default Value: bridge-blocked

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <stp>
   <global>
   <bridge-admins>
   <bridge-admin>
      <bridge-type>spanning-tree</bridge-type>
         </disable-spanning-tree>
         <config>
            <bridge-forwarding>bridge-blocked</bridge-forwarding>
         </config>
      </bridge-admin>
   </bridge-admins>
   </global>
   </stp>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    no bridge <1-32> (rapid-spanning-tree|multiple-spanning-tree) enable (bridge-
      blocked|bridge-forward)
```

Configure network-instances instance-name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <stp>
   <global>
   <bridge-admins>
   <bridge-admin>
      <bridge-type>spanning-tree</bridge-type>
         </disable-spanning-tree>
      </bridge-admin>
   </bridge-admins>
   </global>
   </stp>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    no bridge <1-32> spanning-tree enable
```

Configure bridge forwarding

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree)

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Attribute Name: bridge-forwarding

Attribute Type: enum (bridge-blocked|bridge-forward)

Default Value: bridge-blocked

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
```

```
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <stp>
   <global>
   <bridge-admins>
   <bridge-admin>
      <bridge-type>spanning-tree</bridge-type>
         </disable-spanning-tree>
         <config>
            <bridge-forwarding>bridge-blocked</bridge-forwarding>
         </config>
      </bridge-admin>
   </bridge-admins>
   </global>
   </stp>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 no bridge <1-32> spanning-tree enable (bridge-blocked|bridge-forward)
```

Configure enable shutdown

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: enable-shutdown

Attribute Type: uint8

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <stp>
   <global>
   <bridge-shutdowns>
   <bridge-shutdown>
```

```
      </enable-shutdown>
   </bridge-shutdown>
   </bridge-shutdowns>
   </global>
   </stp>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge shutdown <1-32>
```

Configure network-instances instance-name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: enable-shutdown

Attribute Type: uint8

Attribute Name: bridge-forwarding

Attribute Type: enum (bridge-blocked|bridge-forward)

Default Value: bridge-blocked

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <stp>
   <global>
   <bridge-shutdowns>
   <bridge-shutdown>
      </enable-shutdown>
      <config>
         <bridge-forwarding>bridge-blocked</bridge-forwarding>
      </config>
   </bridge-shutdown>
   </bridge-shutdowns>
   </global>
   </stp>
   </network-instance>
```

```
   </network-instances>
```

Command Syntax

```
    bridge shutdown <1-32> (bridge-blocked|bridge-forward)
```

Configure region name

Use this attribute to create an MST region and specify its name. MST bridges of a region form different spanning trees for different VLANs.

Attribute Name: region-name

Attribute Type: string

Default Value: Default

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <config>
                <region-name>REGION_NAME</region-name> <!-- operation="delete"-->
         </config>
      </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    bridge <1-32> region REGION_NAME
```

Configure revision number

Use this attribute to specify the number for configuration information.

Attribute Name: revision-number

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <config>
                <revision-number>0</revision-number> <!-- operation="delete"-->
         </config>
      </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> revision <0-65535>
```

Configure vlan id

Use this attribute to simultaneously add multiple VLANs for the corresponding instance of a bridge.The VLANs must be created before being associated with an MST instance (MSTI). If the VLAN range is not specified,the MSTI will not be created.

Attribute Name: vlan-id

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <te-mst-instance>
         <config>
```

```
                <vlan-id>VLAN_RANGE</vlan-id> <!-- operation="delete"-->
          </config>
       </te-mst-instance>
    </mst-instances>
    </mstp>
    </stp>
    </bridge>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 bridge <1-32> te-msti vlan VLAN_RANGE
```

Configure disable spanning tree

Use this attribute to diasble spanning tree for TE MSTI instance

Attribute Name: disable-spanning-tree

Attribute Type: uint8

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>1</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>l2ni</instance-type>
       <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
          <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
          <mstp>
          <mst-instances>
          <te-mst-instance>
          <config>
                 </disable-spanning-tree><!-- operation="delete"-->
          </config>
       </te-mst-instance>
    </mst-instances>
    </mstp>
    </stp>
    </bridge>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 no bridge <1-32> te-msti
```

Configure name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <te-mst-instance>
         <interfaces>
         <interface> <!-- operation="delete"-->
            <name>WORD</name>
            <config>
               <name>WORD</name>
            </config>
         </interface>
      </interfaces>
   </te-mst-instance>
   </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    bridge-group <1-32> instance te-msti
```

Configure instance id

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: instance-id

Attribute Type: union

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <stp>
   <mstp>
   <mst-instances>
   <mst-instance>
      <instance-id>MSTP_INSTANCE_T</instance-id>
   </mst-instance>
   </mst-instances>
   </mstp>
   </stp>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> instance <1-63>
```

Configure network-instances instance-name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: instance-id

Attribute Type: uint16

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>l2ni</instance-type>
      <config>
         <instance-type>l2ni</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
```

```
<stp>
<mstp>
<mst-instances>
<mst-instance>
   <instance-id>MSTP_INSTANCE_T</instance-id>
</mst-instance>
</mst-instances>
</mstp>
</stp>
</network-instance>
</network-instances>
```

Command Syntax

```
 bridge <1-32> instance <1-62>
```

Configure instance type

Use this attribute to simultaneously add multiple VLANs for the corresponding instance of a bridge.The VLANs must be created before being associated with an MST instance (MSTI). If the VLAN range is not specified,the MSTI will not be created.

Attribute Name: vlan-id

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
               <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
               <vlan-id>VLAN_RANGE</vlan-id> <!-- operation="delete"-->
         </mst-instance>
      </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
```

```
   </network-instances>
```

Command Syntax

```
    bridge <1-32> instance <1-63> vlan VLAN_RANGE
```

Configure instance id

Use this attribute to simultaneously add multiple VLANs for the corresponding instance of a bridge.The VLANs must be created before being associated with an MST instance (MSTI). If the VLAN range is not specified,the MSTI will not be created.

Attribute Name: vlan-id

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
               <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
               <vlan-id>VLAN_RANGE</vlan-id> <!-- operation="delete"-->
         </mst-instance>
      </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    bridge <1-32> instance <1-62> vlan VLAN_RANGE
```

Configure mst-instance bridge-priority

Use this attribute to set the bridge instance priority.

Attribute Name: bridge-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-61440

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
               <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
               <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
         </mst-instance>
      </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> instance <1-63> priority <0-61440>
```

Configure mst-instance bridge-priority

Use this attribute to set the bridge instance priority.

Attribute Name: bridge-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-61440

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
```

```
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
               <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
               <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
         </mst-instance>
      </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge <1-32> instance <1-62> priority <0-61440>
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
```

```
                <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
            <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                    <name>WORD</name>
                </config>
            </interface>
        </interfaces>
    </mst-instance>
</mst-instances>
</mstp>
</stp>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance <1-63>
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
               <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
            <interface> <!-- operation="delete"-->
               <name>WORD</name>
```

```
                <config>
                   <name>WORD</name>
                </config>
             </interface>
          </interfaces>
       </mst-instance>
    </mst-instances>
    </mstp>
    </stp>
    </bridge>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 bridge-group <1-32> instance <1-62>
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>1</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>l2ni</instance-type>
       </config>
          <instance-type>l2ni</instance-type>
       <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
          <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
          <mstp>
          <mst-instances>
          <mst-instance>
             <instance-id>4092</instance-id>
             <config>
                <instance-id>4092</instance-id>
             </config>
             <interfaces>
             <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                   <name>WORD</name>
                </config>
             </interface>
          </interfaces>
```

```
      </mst-instance>
   </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge-group <1-32> instance spbm
```

Configure interfaces name

The textual name of the interface

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>4093</instance-id>
            <config>
               <instance-id>4093</instance-id>
            </config>
            <interfaces>
            <interface> <!-- operation="delete"-->
               <name>WORD</name>
               <config>
                  <name>WORD</name>
               </config>
            </interface>
         </interfaces>
      </mst-instance>
   </mst-instances>
   </mstp>
   </stp>
   </bridge>
```

```
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance spbv
```

Configure path cost

Use this attribute to set a path cost for a multiple spanning tree instance. Before using this attribute, you must explicitly add an MST instance to a port using the bridge-group instance attribute.

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 20000000

Attribute Range: 1-200000000

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>1</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
   </config>
      <instance-type>l2ni</instance-type>
   <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
      <mst-instances>
      <mst-instance>
         <instance-id>MSTP_INSTANCE_T</instance-id>
         <config>
            <instance-id>MSTP_INSTANCE_T</instance-id>
         </config>
         <interfaces>
         <interface>
            <name>WORD</name>
            <config>
               <name>WORD</name>
            </config>
               <path-cost>1</path-cost> <!-- operation="delete"-->
         </interface>
      </interfaces>
   </mst-instance>
</mst-instances>
</mstp>
</stp>
</bridge>
</network-instance>
```

```
   </network-instances>
```

Command Syntax

```
    bridge-group <1-32> instance <1-63> path-cost <1-200000000>
```

Configure interface path-cost

Use this attribute to set a path cost for a multiple spanning tree instance. Before using this attribute, you must explicitly add an MST instance to a port using the bridge-group instance attribute.

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 20000000

Attribute Range: 1-200000000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
               <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
            <interface>
               <name>WORD</name>
               <config>
                  <name>WORD</name>
               </config>
                  <path-cost>1</path-cost> <!-- operation="delete"-->
            </interface>
         </interfaces>
      </mst-instance>
   </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bridge-group <1-32> instance <1-62> path-cost <1-200000000>
```

Configure port priority

Use this attribute to set the bridge instance priority.The Multiple Spanning Tree Protocol uses port priority as a tiebreaker to determine which port should forward frames for a particular instance on a LAN, or which port should be the root port for an instance. A lower value implies a better priority. In the case of the same priority, the interface index will serve as the tiebreaker, with the lower-numbered interface being preferred over others.

Attribute Name: port-priority

Attribute Type: int16

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
         <mstp>
         <mst-instances>
         <mst-instance>
            <instance-id>MSTP_INSTANCE_T</instance-id>
            <config>
               <instance-id>MSTP_INSTANCE_T</instance-id>
            </config>
            <interfaces>
            <interface>
               <name>WORD</name>
               <config>
                  <name>WORD</name>
               </config>
                  <port-priority>0</port-priority> <!-- operation="delete"-->
            </interface>
         </interfaces>
      </mst-instance>
   </mst-instances>
   </mstp>
   </stp>
   </bridge>
   </network-instance>
```

```
</network-instances>
```

Command Syntax

```
 bridge-group <1-32> instance <1-63> priority <0-240>
```

Configure interface port-priority

Use this attribute to set the bridge instance priority.The Multiple Spanning Tree Protocol uses port priority as a tiebreaker to determine which port should forward frames for a particular instance on a LAN, or which port should be the root port for an instance. A lower value implies a better priority. In the case of the same priority, the interface index will serve as the tiebreaker, with the lower-numbered interface being preferred over others.

Attribute Name: port-priority

Attribute Type: int16

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>1</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
   </config>
      <instance-type>l2ni</instance-type>
   <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <stp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mstp>
      <mst-instances>
      <mst-instance>
         <instance-id>MSTP_INSTANCE_T</instance-id>
         <config>
            <instance-id>MSTP_INSTANCE_T</instance-id>
         </config>
         <interfaces>
         <interface>
            <name>WORD</name>
            <config>
               <name>WORD</name>
            </config>
               <port-priority>0</port-priority> <!-- operation="delete"-->
         </interface>
      </interfaces>
   </mst-instance>
</mst-instances>
</mstp>
</stp>
</bridge>
```

```
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance <1-62> priority <0-240>
```

Configure port-bridge path-cost

Use this attribute to set the cost of a path. Before you can use this attribute to set a path-cost in a VLAN configuration, you must explicitly add an MST instance to a port using the bridge-group instance attribute..

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 20000000

Attribute Range: 1-200000000

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>1</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>l2ni</instance-type>
   </config>
      <instance-type>l2ni</instance-type>
   <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
      <bridge-ports>
         <interface>
            <name>WORD</name>
            <config>
               <name>WORD</name>
            </config>
            <mstp-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
            <port-bridge>
            <config>
                  <path-cost>1</path-cost> <!-- operation="delete"-->
            </config>
         </port-bridge>
      </mstp-port>
   </interface>
</bridge-ports>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> path-cost <1-200000000>
```

Configure port-bridge port-priority

Use this attribute to set the port priority for a bridge group. The Multiple Spanning Tree Protocol uses port priority as a tiebreaker to determine which port should forward frames for a particular instance on a LAN, or which port should be the root port for an instance. A lower value implies a better priority. In the case of the same priority, the interface index will serve as the tiebreaker, with the lower-numbered interface being preferred over others.

Attribute Name: port-priority

Attribute Type: int16

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>1</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>l2ni</instance-type>
      </config>
         <instance-type>l2ni</instance-type>
      <bridge xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge">
         <bridge-ports>
            <interface>
               <name>WORD</name>
               <config>
                  <name>WORD</name>
               </config>
               <mstp-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
               <port-bridge>
               <config>
                      <port-priority>0</port-priority> <!-- operation="delete"-->
               </config>
            </port-bridge>
         </mstp-port>
      </interface>
   </bridge-ports>
   </bridge>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge-group <1-32> priority <0-240>
```

Configure interface hello-time

Use this attribute to set the hello-time, the time in seconds after which (if this bridge is the root bridge) all the default bridges in a bridged LAN exchange Bridge Protocol Data Units (BPDUs). A very low value of this parameter leads to

excessive traffic on the network, while a higher value delays the detection of topology change. This value is used by all instances.

Attribute Name: hello-time

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <hello-time>1</hello-time> <!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 spanning-tree hello-time <1-10>
```

Configure port configuration

Use this attribute to set a port as an edge-port and to enable rapid transitions.

Attribute Name: port-configuration

Attribute Type: enum (edgeport|portfast)

Default Value: portfast

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <port-configuration>portfast</port-configuration> <!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 spanning-tree (edgeport|portfast)
```

Configure enable automatic edge detection

Use this attribute to enable automatic edge detection.

Attribute Name: enable-automatic-edge-detection

Attribute Type: empty

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-automatic-edge-detection><!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree autoedge
```

Configure bpdu guard

Use this attribute to set the portfast BPDU (Bridge Protocol Data Unit) guard or filter for the bridge.When the BPDU guard feature is set for a bridge, all portfast-enabled ports of the bridge that have the BPDU guard set to default shut down the port on receiving a BPDU. In this case, the BPDU is not processed. You can configure the errdisable-timeout feature to enable the port after the specified time interval.

Attribute Name: bpdu-guard

Attribute Type: enum (enable|disable|default)

Default Value: default

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <bpdu-guard>default</bpdu-guard> <!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree bpdu-guard (enable|disable|default)
```

Configure bpdu filter

Use this attribute to set the portfast BPDU (Bridge Protocol Data Unit) guard or filter for the bridge.All ports that have their BPDU filter set to default take the same value of BPDU filter as that of the bridge. The Spanning Tree Protocol sends BPDUs from all ports. Enabling the BPDU Filter feature ensures that PortFast-enabled ports do not transmit or receive any BPDUs

Attribute Name: bpdu-filter

Attribute Type: enum (enable|disable|default)

Default Value: default

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <bpdu-filter>default</bpdu-filter> <!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 spanning-tree bpdu-filter (enable|disable|default)
```

Configure enable root guard

Use this attribute to enable the root guard feature for the port. This feature disables reception of superior BPDUs.The root guard feature makes sure that the port on which it is enabled is a designated port. If the root guard enabled port receives a superior BPDU, it goes to a Listening state (for STP) or discarding state (for RSTP and MSTP).

Attribute Name: enable-root-guard

Attribute Type: empty

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-root-guard><!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree guard root
```

Configure link type

Use this attribute to enable or disable point-to-point or shared link types. RSTP has a backward-compatible STP , spanning-tree link-type shared. An alternative is the spanning-tree force-version 0

Attribute Name: link-type

Attribute Type: enum (shared|point-to-point|auto)

Default Value: point-to-point

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <link-type>point-to-point</link-type> <!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree link-type (shared|point-to-point|auto)
```

Configure enable restricted domain role

Use this attribute to set the restricted-domain-role value of the port to TRUE.

Attribute Name: enable-restricted-domain-role

Attribute Type: empty

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-restricted-domain-role><!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree restricted-domain-role
```

Configure enable restricted role

Use this attribute to set the restricted-role value of the port to TRUE

Attribute Name: enable-restricted-role

Attribute Type: empty

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-restricted-role><!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree restricted-role
```

Configure enable restricted tcn

Use this attribute to set the restricted TCN value of the port to TRUE

Attribute Name: enable-restricted-tcn

Attribute Type: empty

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-restricted-tcn><!-- operation="delete"-->
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree restricted-tcn
```

Configure enable instance restricted tcn

Use this attribute to set the restricted TCN value for the instance to TRUE

Attribute Name: enable-instance-restricted-tcn

Attribute Type: uint8

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mstp>
<mst-instances>
<mst-instance>
   <instance-id>MSTP_INSTANCE_T</instance-id>
   <config>
      <instance-id>MSTP_INSTANCE_T</instance-id>
   </config>
      </enable-instance-restricted-tcn><!-- operation="delete"-->
</mst-instance>
</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 spanning-tree instance <1-63> restricted-tcn
```

Configure mst-instance enable-instance-restricted-tcn

Use this attribute to set the restricted TCN value for the instance to TRUE

Attribute Name: enable-instance-restricted-tcn

Attribute Type: uint8

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mstp>
<mst-instances>
```

```
<mst-instance>
   <instance-id>MSTP_INSTANCE_T</instance-id>
   <config>
      <instance-id>MSTP_INSTANCE_T</instance-id>
   </config>
      </enable-instance-restricted-tcn><!-- operation="delete"-->
</mst-instance>
</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 spanning-tree instance <1-62> restricted-tcn
```

Configure enable instance restricted role

Use this attribute to set the restricted role value for the instance to TRUE

Attribute Name: enable-instance-restricted-role

Attribute Type: uint8

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mstp>
<mst-instances>
<mst-instance>
   <instance-id>MSTP_INSTANCE_T</instance-id>
   <config>
      <instance-id>MSTP_INSTANCE_T</instance-id>
   </config>
      </enable-instance-restricted-role><!-- operation="delete"-->
</mst-instance>
</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 spanning-tree instance <1-63> restricted-role
```

Configure mst-instance enable-instance-restricted-role

Use this attribute to set the restricted role value for the instance to TRUE

Attribute Name: enable-instance-restricted-role

Attribute Type: uint8

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mstp>
<mst-instances>
<mst-instance>
   <instance-id>MSTP_INSTANCE_T</instance-id>
   <config>
      <instance-id>MSTP_INSTANCE_T</instance-id>
   </config>
      </enable-instance-restricted-role><!-- operation="delete"-->
</mst-instance>
</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 spanning-tree instance <1-62> restricted-role
```

Configure customer-spanning-tree bridge-priority

Use this attribute to set the bridge priority for the common instance. Using a lower priority indicates a greater likelihood of the bridge becoming root. The priority values can be set only in increments of 4096.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: bridge-priority

Attribute Type: uint16

Default Value: 61440

Attribute Range: 0-61440

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
```

```
    <config>
       <name>WORD</name>
    </config>
<customer-spanning-tree>
<config>
       <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
</config>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree priority <0-61440>
```

Configure customer-spanning-tree max-age

Use this attribute to set the maximum age for a bridge. This value is used by all instances. Maximum age is the maximum time in seconds for which (if a bridge is the root bridge) a message is considered valid. This prevents the frames from looping indefinitely. The value of maximum age should be greater than twice the value of hello time plus 1, but less than twice the value of forward delay minus 1. The allowable range for max-age is 6-40 seconds. Configure this value sufficiently high, so that a frame generated by root can be propagated to the leaf nodes without exceeding the maximum age.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: max-age

Attribute Type: uint8

Default Value: 20

Attribute Range: 6-40

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<customer-spanning-tree>
<config>
       <max-age>6</max-age> <!-- operation="delete"-->
</config>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree max-age <6-40>
```

Configure customer-spanning-tree hello-time

Use this attribute to set the hello-time, the time in seconds after which (if this bridge is the root bridge) all the bridges.in a bridged LAN exchange Bridge Protocol Data Units (BPDUs). A very low value of this parameter leads to excessive traffic on the network, while a higher value delays the detection of topology change.This value is used by all instances. Configure the bridge instance name before using this attribute. The allowable range of values is 1-10 seconds. However, make sure that the value of hello time is always greater than the value of hold time (2 seconds by default)

This command is supported when following feature are enabled provider bridge feature

Attribute Name: hello-time

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<customer-spanning-tree>
<config>
       <hello-time>1</hello-time> <!-- operation="delete"-->
</config>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
 customer-spanning-tree hello-time <1-10>
```

Configure forward delay

Use this attribute to set the time (in seconds) after which (if this bridge is the root bridge) each port changes states to learning and forwarding. This value is used by all instances

This command is supported when following feature are enabled provider bridge feature

Attribute Name: forward-delay

Attribute Type: uint8

Default Value: 15

Attribute Range: 4-30

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
```

```
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<customer-spanning-tree>
<config>
       <forward-delay>4</forward-delay> <!-- operation="delete"-->
</config>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree forward-time <4-30>
```

Configure customer-spanning-tree transmit-hold-count

Use this attribute to set the maximum number of transmissions of BPDUs by the transmit state machine

This command is supported when following feature are enabled provider bridge feature

Attribute Name: transmit-hold-count

Attribute Type: uint8

Default Value: 6

Attribute Range: 1-10

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<customer-spanning-tree>
<config>
       <transmit-hold-count>1</transmit-hold-count> <!-- operation="delete"-->
</config>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree transmit-holdcount <1-10>
```

Configure customer-edge path-cost

Use this attribute to set the bridge path cost.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-200000000

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<customer-spanning-tree>
<customer-edge>
<config>
       <path-cost>1</path-cost> <!-- operation="delete"-->
</config>
</customer-edge>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree customer-edge path-cost <1-200000000>
```

Configure customer-edge port-priority

Use this attribute to set the port instance priority.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: port-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
```

```
        <name>WORD</name>
    </config>
<customer-spanning-tree>
<customer-edge>
<config>
       <port-priority>0</port-priority> <!-- operation="delete"-->
</config>
</customer-edge>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree customer-edge priority <0-240>
```

Configure svlan id

Use this attribute to set the bridge path cost.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-200000000

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<customer-spanning-tree>
<provider-edge>
<vlans>
<vlan>
    <svlan-id>0</svlan-id>
    <config>
        <svlan-id>2</svlan-id>
    </config>
        <path-cost>1</path-cost> <!-- operation="delete"-->
</vlan>
</vlans>
</provider-edge>
</customer-spanning-tree>
</interface>
</interfaces>
```

```
</xstp>
```

Command Syntax

```
customer-spanning-tree provider-edge svlan <2-4094> path-cost <1-200000000>
```

Configure vlan port-priority

Use this attribute to set the port instance priority.

This command is supported when following feature are enabled provider bridge feature

Attribute Name: port-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-240

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<customer-spanning-tree>
<provider-edge>
<vlans>
<vlan>
   <svlan-id>0</svlan-id>
   <config>
      <svlan-id>2</svlan-id>
   </config>
      <port-priority>0</port-priority> <!-- operation="delete"-->
</vlan>
</vlans>
</provider-edge>
</customer-spanning-tree>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
customer-spanning-tree provider-edge svlan <2-4094> priority <0-240>
```

Configure options

Debug configuration flag

Attribute Name: options

Attribute Type: bits (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Netconf edit-config payload

```
<xstp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<mstp>
<debug>
<config>
   <options>mstp protocol</options> <!-- operation="delete"-->
</config>
</debug>
</mstp>
</xstp>
```

Command Syntax

```
debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet
  tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)
```

debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Attribute Name: terminal-debug-options

Attribute Type: bits (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Netconf RPC payload

```
<mstp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<terminal-debug-options>mstp protocol</terminal-debug-options>
</mstp-terminal-debug-on>
```

Command Syntax

```
debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet
  tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)
```

no debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Attribute Name: terminal-debug-options

Attribute Type: bits (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)

Netconf RPC payload

```
<mstp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
<terminal-debug-options>mstp protocol</terminal-debug-options>
</mstp-terminal-debug-off>
```

Command Syntax

```
no debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp
  packet tx|mstp packet rx|mstp cli|mstp bpdu|mstp mcec|mstp all)
```

clear spanning-tree detected protocols bridge <1-32>

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
      <clear-spanning-tree-detected-protocols-per-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <bridge-id>1</bridge-id>
      </clear-spanning-tree-detected-protocols-per-bridge>
```

Command Syntax

```
clear spanning-tree detected protocols bridge <1-32>
```

clear spanning-tree detected protocols interface INTERFACE

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
      <clear-spanning-tree-detected-protocols-per-interface xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <interface-name>INTERFACE</interface-name>
      </clear-spanning-tree-detected-protocols-per-interface>
```

Command Syntax

```
clear spanning-tree detected protocols interface INTERFACE
```

clear spanning-tree statistics (spbm|<1-63>) bridge <1-32>

Attribute Name: mst-instance-id

Attribute Type: union

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
      <clear-spanning-tree-statistics-per-instance-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <mst-instance-id>MSTP_INSTANCE_SPBM_TYPE_T</mst-instance-id>
      <bridge-id>1</bridge-id>
      </clear-spanning-tree-statistics-per-instance-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics (spbm|<1-63>) bridge <1-32>
```

clear spanning-tree statistics interface IFNAME vlan <2-4094> bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
      <clear-spanning-tree-statistics-per-interface-vlan-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <interface-name>IFNAME</interface-name>
      <vlan-id>2</vlan-id>
      <bridge-id>1</bridge-id>
      </clear-spanning-tree-statistics-per-interface-vlan-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics interface IFNAME vlan <2-4094> bridge <1-32>
```

clear spanning-tree statistics interface IFNAME bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
      <clear-spanning-tree-statistics-per-interface-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
      <interface-name>IFNAME</interface-name>
      <bridge-id>1</bridge-id>
      </clear-spanning-tree-statistics-per-interface-and-bridge>
```

Command Syntax

```
clear spanning-tree statistics interface IFNAME bridge <1-32>
```

clear spanning-tree statistics bridge <1-32>

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <clear-spanning-tree-statistics-per-bridge xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-xstp">
       <bridge-id>1</bridge-id>
       </clear-spanning-tree-statistics-per-bridge>
```

Command Syntax

```
    clear spanning-tree statistics bridge <1-32>
```

clear spanning-tree statistics vlan <2-4094> bridge <1-32>

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <clear-spanning-tree-statistics-per-vlan-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
       <vlan-id>2</vlan-id>
       <bridge-id>1</bridge-id>
       </clear-spanning-tree-statistics-per-vlan-and-bridge>
```

Command Syntax

```
    clear spanning-tree statistics vlan <2-4094> bridge <1-32>
```

clear spanning-tree statistics interface IFNAME (spbm|<1-63>) bridge <1-32>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mst-instance-id

Attribute Type: union

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <clear-spanning-tree-statistics-per-interface-instance-and-bridge xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-xstp">
       <interface-name>IFNAME</interface-name>
       <mst-instance-id>MSTP_INSTANCE_SPBM_TYPE_T</mst-instance-id>
       <bridge-id>1</bridge-id>
       </clear-spanning-tree-statistics-per-interface-instance-and-bridge>
```

Command Syntax

```
    clear spanning-tree statistics interface IFNAME (spbm|<1-63>) bridge <1-32>
```

snmp restart mstp

Netconf RPC payload

```
<mstp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp"/>
```

Command Syntax

```
snmp restart mstp
```

IPI-IF-AGGREGATE

Configure aggregate id

Channel group identifier

Attribute Name: aggregate-id

Attribute Type: uint16

Attribute Range: 1-16383

Attribute Name: agg-type

Attribute Type: enum (lacp|static)

Attribute Name: lacp-mode

Attribute Type: enum (passive|active)

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <member-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
aggregate">
      <config>
            <agg-type>2</agg-type>
            <lacp-mode>1</lacp-mode>
            <aggregate-id>1</aggregate-id>
      </config>
   </member-aggregation>
   </interface>
   </interfaces>
```

Command Syntax

```
static-channel-group <1-16383>
```

Configure lacp mode

Use this command to add a port to a channel group specified by the channel group number (1-12). This command enables link aggregation on a port, so that it may be selected for aggregation by the local system.

Attribute Name: lacp-mode

Attribute Type: enum (passive|active)

Attribute Name: agg-type

Attribute Type: enum (lacp|static)

Attribute Name: aggregate-id

Attribute Type: uint16

Attribute Range: 1-16383

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <member-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
aggregate">
      <config>
             <agg-type>1</agg-type>
             <aggregate-id>1</aggregate-id>
             <lacp-mode>passive</lacp-mode>
      </config>
   </member-aggregation>
   </interface>
   </interfaces>
```

Command Syntax

```
    channel-group <1-16383> mode (passive|active)
```

Configure weight

Set the port channel weight

Attribute Name: weight

Attribute Type: uint16

Attribute Range: 1-16

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
```

```
       </config>
       <member-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-
aggregate">
       <port-channel-weight>
       <config>
              <weight>1</weight> <!-- operation="delete"-->
       </config>
   </port-channel-weight>
   </member-aggregation>
   </interface>
   </interfaces>
```

Command Syntax

```
    port-channel weight <1-16>
```

Configure min links

Minimum number of active links required in this aggregator

Attribute Name: min-links

Attribute Type: uint8

Attribute Range: 2-32

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
   <interface>
      <name>IFNAME</name>
      <config>
         <name>IFNAME</name>
      </config>
      <aggregator xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-aggregate">
      <config>
             <min-links>2</min-links> <!-- operation="delete"-->
      </config>
   </aggregator>
   </interface>
   </interfaces>
```

Command Syntax

```
    port-channel min-links <2-32>
```

Configure min bandwidth

Minimum number of bandwidth required in this aggregator

Attribute Name: min-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
```

```
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <aggregator xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-if-aggregate">
   <config>
         <min-bandwidth>BANDWIDTH</min-bandwidth> <!-- operation="delete"-->
   </config>
</aggregator>
</interface>
</interfaces>
```

Command Syntax

```
port-channel min-bandwidth BANDWIDTH
```

IPI-LACP

Configure system priority

Use this attribute to the system priority of this switch. This priority is used for determining the system that is responsible for resolving conflicts in the choice of aggregation groups. A lower numerical value has a higher priority.

Attribute Name: system-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 0-65535

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<global>
<config>
   <system-priority>0</system-priority> <!-- operation="delete"-->
</config>
</global>
</lacp>
```

Command Syntax

```
lacp system-priority <0-65535>
```

Configure options

This attribute returns the terminal debug options which are enabled

Attribute Name: options

Attribute Type: bits (event|cli|timer|packet|rx|tx|sync|ha|all)

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<debug>
<config>
   <options>event</options> <!-- operation="delete"-->
</config>
</debug>
</lacp>
```

Command Syntax

```
debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)
```

Configure port priority

Use this attribute to set the priority of a channel. Channels are selected for aggregation based on their priority with the higher priority (numerically lower) channels selected first

Attribute Name: port-priority

Attribute Type: uint32

Default Value: 32768

Attribute Range: 1-65535

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<member-aggregation>
<config>
      <port-priority>1</port-priority> <!-- operation="delete"-->
</config>
</member-aggregation>
</interface>
</interfaces>
</lacp>
```

Command Syntax

```
lacp port-priority <1-65535>
```

Configure timeout

Use this attribute to set either a short or long timeout value on a port. The timeout value is the number of seconds before invalidating a received LACP data unit (DU). If the LACP_timeout bit (encoded in Actor_State and Partner_State fields) is set to 1, the short timeout takes effect; if set to 0, the long timeout takes effect.

Attribute Name: timeout

Attribute Type: enum (long|short)

Default Value: long

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<member-aggregation>
<config>
      <timeout>long</timeout> <!-- operation="delete"-->
</config>
</member-aggregation>
</interface>
</interfaces>
</lacp>
```

Command Syntax

```
 lacp timeout (long|short)
```

Configure bridge type

Use this attribute to set the address type to use for sending LACPDUs (Link Aggregation Control Protocol Data Units).

Attribute Name: bridge-type

Attribute Type: enum (customer-bridge-group-address|multicast-group-address|non-tmpr-group-address)

Default Value: multicast-group-address

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<member-aggregation>
<config>
      <bridge-type>multicast-group-address</bridge-type> <!-- operation="delete"-->
</config>
</member-aggregation>
</interface>
</interfaces>
</lacp>
```

Command Syntax

```
lacp destination-mac (customer-bridge-group-address|multicast-group-address|non-
  tmpr-group-address)
```

Configure force up

Use this attribute to enable the port as force-up in a channel group. Setting this attribute makes the port logically operational even if link aggregation goes down.

Attribute Name: force-up

Attribute Type: empty

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<member-aggregation>
<config>
       </force-up><!-- operation="delete"-->
</config>
</member-aggregation>
</interface>
</interfaces>
</lacp>
```

Command Syntax

```
lacp force-up
```

Configure agg force up

Use this attribute to enable the port as lacp agg force-up

Attribute Name: agg-force-up

Attribute Type: empty

Netconf edit-config payload

```
<lacp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<member-aggregation>
<config>
       </agg-force-up><!-- operation="delete"-->
```

```
</config>
</member-aggregation>
</interface>
</interfaces>
</lacp>
```

Command Syntax

```
lacp agg force-up
```

snmp restart lacp

Netconf RPC payload

```
<lacp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp"/>
```

Command Syntax

```
snmp restart lacp
```

clear lacp (<1-65535>|) counters

Attribute Name: aggregate-id

Attribute Type: uint16

Attribute Range: 1-65535

Netconf RPC payload

```
<clear-lacp-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<aggregate-id>1</aggregate-id>
</clear-lacp-counters>
```

Command Syntax

```
clear lacp (<1-65535>|) counters
```

debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|cli|timer|packet|rx|tx|sync|ha|all)

Netconf RPC payload

```
<lacp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<terminal-debug-options>event</terminal-debug-options>
</lacp-terminal-debug-on>
```

Command Syntax

```
debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)
```

no debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|cli|timer|packet|rx|tx|sync|ha|all)

Netconf RPC payload

```
<lacp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lacp">
<terminal-debug-options>event</terminal-debug-options>
</lacp-terminal-debug-off>
```

Command Syntax

```
no debug lacp (event|cli|timer|packet|rx|tx|sync|ha|all)
```

IPI-LLDPV2

Configure enable

Enable or disable the LLDP protocol at node level

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<config>
   </enable><!-- operation="delete"-->
</config>
</global>
</lldp>
```

Command Syntax

```
lldp run
```

Configure enable tx rx only

Specifies to only send or receive LLDP frames

Attribute Name: enable-tx-rx-only

Attribute Type: enum (rxonly|txonly)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<config>
   <enable-tx-rx-only>rxonly</enable-tx-rx-only> <!-- operation="delete"-->
</config>
</global>
</lldp>
```

Command Syntax

```
set lldp enable (rxonly|txonly)
```

Configure notification interval

This object controls the interval between transmission of LLDP notifications during normal transmission periods

Attribute Name: notification-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 5-3600

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<config>
   <notification-interval>5</notification-interval> <!-- operation="delete"-->
</config>
</global>
</lldp>
```

Command Syntax

```
lldp notification-interval <5-3600>
```

Configure port description

This attribute specifies to include basic management port description information in LLDP TLV

Attribute Name: port-description

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
   </port-description><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select basic-mgmt port-description
```

Configure system description

This attribute specifies to include basic management system description information in LLDP TLV

Attribute Name: system-description

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
   </system-description><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select basic-mgmt system-description
```

Configure system name

This attribute specifies to include basic management system name information in LLDP TLV

Attribute Name: system-name

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
   </system-name><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select basic-mgmt system-name
```

Configure system capabilities

This attribute specifies to include basic management system capabilities information in LLDP TLV

Attribute Name: system-capabilities

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
   </system-capabilities><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select basic-mgmt system-capabilities
```

Configure management address

This attribute specifies to include basic management management-address information in LLDP TLV

Attribute Name: management-address

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-basic-management>
<config>
   </management-address><!-- operation="delete"-->
</config>
</global-basic-management>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select basic-mgmt management-address
```

Configure port vlan id

This attribute specifies to include ieee-8021-org-specific port vlan-id information in LLDP TLV

Attribute Name: port-vlan-id

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8021-org-specific>
<config>
   </port-vlan-id><!-- operation="delete"-->
</config>
</global-ieee-8021-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific port-vlanid
```

Configure port protocol vlan id

This attribute specifies to include ieee-8021-org-specific port protocol vlan-id information in LLDP TLV

Attribute Name: port-protocol-vlan-id

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8021-org-specific>
<config>
   </port-protocol-vlan-id><!-- operation="delete"-->
</config>
</global-ieee-8021-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific port-ptcl-vlanid
```

Configure vlan name

This attribute specifies to include ieee-8021-org-specific vlan name information in LLDP TLV

Attribute Name: vlan-name

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
```

```
<global-ieee-8021-org-specific>
<config>
   </vlan-name><!-- operation="delete"-->
</config>
</global-ieee-8021-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific vlan-name
```

Configure protocol identifier

This attribute specifies to include ieee-8021-org-specific protocol identifier information in LLDP TLV

Attribute Name: protocol-identifier

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8021-org-specific>
<config>
   </protocol-identifier><!-- operation="delete"-->
</config>
</global-ieee-8021-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific ptcl-identity
```

Configure vid digest

This attribute specifies to include ieee-8021-org-specific vid usage digest information in LLDP TLV

Attribute Name: vid-digest

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8021-org-specific>
<config>
   </vid-digest><!-- operation="delete"-->
</config>
```

```
</global-ieee-8021-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific vid-digest
```

Configure management vlan id

This attribute specifies to include ieee-8021-org-specific management vlan-id information in LLDP TLV

Attribute Name: management-vlan-id

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8021-org-specific>
<config>
   </management-vlan-id><!-- operation="delete"-->
</config>
</global-ieee-8021-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific mgmt-vid
```

Configure link aggregation

This attribute specifies to include ieee-8021-org-specific link aggregation information in LLDP TLV

Attribute Name: link-aggregation

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8021-org-specific>
<config>
   </link-aggregation><!-- operation="delete"-->
</config>
</global-ieee-8021-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8021-org-specific link-agg
```

Configure mac phy

This attribute specifies to include ieee-8023-org-specific MAC or PHY information in LLDP TLV

Attribute Name: mac-phy

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8023-org-specific>
<config>
   </mac-phy><!-- operation="delete"-->
</config>
</global-ieee-8023-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8023-org-specific mac-phy
```

Configure max mtu size

This attribute specifies to include ieee-8023-org-specific maximum mtu size information in LLDP TLV

Attribute Name: max-mtu-size

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<global-tlv-control>
<global-ieee-8023-org-specific>
<config>
   </max-mtu-size><!-- operation="delete"-->
</config>
</global-ieee-8023-org-specific>
</global-tlv-control>
</global>
</lldp>
```

Command Syntax

```
lldp tlv-select ieee-8023-org-specific max-mtu-size
```

Configure locally assigned chassis id

This attribute used to identify the chassis component associated with the local system

Attribute Name: locally-assigned-chassis-id

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <global>
   <management-if>
   <config>
      <locally-assigned-chassis-id>NAME</locally-assigned-chassis-id> <!--
operation="delete"-->
   </config>
   </management-if>
   </global>
   </lldp>
```

Command Syntax

```
    set lldp chassis locally-assigned NAME
```

Configure reinit delay

The minimum time interval an LLDP port waits before re-initializing an LLDP transmission

Attribute Name: reinit-delay

Attribute Type: uint32

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <global>
   <transmit>
   <config>
      <reinit-delay>1</reinit-delay> <!-- operation="delete"-->
   </config>
   </transmit>
   </global>
   </lldp>
```

Command Syntax

```
    set lldp timer reinit-delay <1-10>
```

Configure message tx interval

The delay between successive LLDP frame transmissions during normal transmission periods

Attribute Name: message-tx-interval

Attribute Type: uint32

Default Value: 30

Attribute Range: 5-3600

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <global>
   <transmit>
   <config>
      <message-tx-interval>5</message-tx-interval> <!-- operation="delete"-->
   </config>
   </transmit>
   </global>
   </lldp>
```

Command Syntax

```
    set lldp timer msg-tx-interval <5-3600>
```

Configure message tx hold multiplier

Multiplier of message-tx-interval to determine the Time To Live (TTL) that is carried in LLDP frames transmitted by the LLDP agent

Attribute Name: message-tx-hold-multiplier

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-100

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <global>
   <transmit>
   <config>
      <message-tx-hold-multiplier>1</message-tx-hold-multiplier> <!--
operation="delete"-->
   </config>
   </transmit>
   </global>
   </lldp>
```

Command Syntax

```
    set lldp msg-tx-hold <1-100>
```

Configure message fast tx

The interval at which LLDP frames are transmitted on behalf of LLDP agent during fast transmission periods

Attribute Name: message-fast-tx

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<transmit>
<config>
   <message-fast-tx>1</message-fast-tx> <!-- operation="delete"-->
</config>
</transmit>
</global>
</lldp>
```

Command Syntax

```
set lldp timer msg-fast-tx <1-3600>
```

Configure tx credit max

The maximum number of consecutive LLDPDUs that can be transmitted at any time

Attribute Name: tx-credit-max

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-10

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<transmit>
<config>
   <tx-credit-max>1</tx-credit-max> <!-- operation="delete"-->
</config>
</transmit>
</global>
</lldp>
```

Command Syntax

```
set lldp tx-max-credit <1-10>
```

Configure tx fast init

The number of LLDPDUs to send during the fast transmission periods

Attribute Name: tx-fast-init

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-8

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<transmit>
<config>
   <tx-fast-init>1</tx-fast-init> <!-- operation="delete"-->
</config>
</transmit>
</global>
</lldp>
```

Command Syntax

```
set lldp tx-fast-init <1-8>
```

Configure neighbor timer

This attribute configures timer to discard received message when remote table is full

Attribute Name: neighbor-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<receive>
<config>
   <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
   <neighbor-timer>1</neighbor-timer> <!-- operation="delete"-->
</config>
</receive>
</global>
</lldp>
```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard received-info timer <1-65535>
```

Configure port timer

This attribute configures timer to discard or delete existing info for received message port MAC when the remote table is full

Attribute Name: port-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: port-mac

Attribute Type: string

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<receive>
<config>
   <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
   <port-mac>MAC</port-mac> <!-- operation="delete"-->
   <port-timer>1</port-timer> <!-- operation="delete"-->
</config>
</receive>
</global>
</lldp>
```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard existing-info MAC timer <1-
  65535>
```

Configure port address

This attribute specifies sub type of the Management Address TLV. Can be configured as mac-address, ip-address or ipv6-address

Attribute Name: port-address

Attribute Type: enum (mac-address|ip-address|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<agent-tlv>
<config>
   <port-address>mac-address</port-address> <!-- operation="delete"-->
</config>
</agent-tlv>
</global>
</lldp>
```

Command Syntax

```
set lldp management-address-tlv (mac-address|ip-address|ipv6-address)
```

Configure chassis id

This attribute specifies chassis ID subtype for the LLDP agent on a port. Can be configured as if-alias or ip-address or ipv6-address or mac-address or if-name or locally-assgined name

Attribute Name: chassis-id

Attribute Type: enum (if-alias|ip-address|mac-address|if-name|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<agent-tlv>
<config>
   <chassis-id>mac-address</chassis-id> <!-- operation="delete"-->
</config>
</agent-tlv>
</global>
</lldp>
```

Command Syntax

```
set lldp chassis-id-tlv (if-alias|ip-address|mac-address|if-name|locally-
  assigned|ipv6-address)
```

Configure port id

This attribute specifies sub type of the port id TLV. Can be configured as if-alias or mac-address or ip-address or ipv6-address or if-name or agent-circuit-id or locally assigned name

Attribute Name: port-id

Attribute Type: enum (if-alias|mac-address|ip-address|if-name|agt-circuit-id|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<global>
<agent-tlv>
<config>
   <port-id>mac-address</port-id> <!-- operation="delete"-->
</config>
</agent-tlv>
</global>
</lldp>
```

Command Syntax

```
set lldp port-id-tlv (if-alias|mac-address|ip-address|if-name|agt-circuit-
  id|locally-assigned|ipv6-address)
```

Configure options

This attribute returns the terminal debug options which are enabled

Attribute Name: options

Attribute Type: bits (event|rx|tx|message|ha|all)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<debug>
<config>
   <options>event</options> <!-- operation="delete"-->
</config>
</debug>
</lldp>
```

Command Syntax

```
debug lldp (event|rx|tx|message|ha|all)
```

Configure disable lldp agent

Use this attribute to disable LLDP on interface when it is enabled globally

Attribute Name: disable-lldp-agent

Attribute Type: uint8

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </disable-lldp-agent><!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp disable default-agent
```

Configure agent circuit id

DHCP agent circuit ID association on interface

Attribute Name: agent-circuit-id

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <agent-circuit-id>VALUE</agent-circuit-id> <!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
 set lldp agt-circuit-id VALUE
```

Configure med device type

LLDP-MED type of interface. Class-0 is not defined, Class-1 is for generic endpoints and is applicable to all endpoints that require the base LLDP discovery services. Class-2 is for media endpoints and it includes endpoints that have IP media capabilities. Class-3 is for communication endpoints i.e., devices acting as end user communication applicances. Calss-4 is for Network Connectivity Device. Class 5-255 are Reserved

Attribute Name: med-device-type

Attribute Type: enum (ep-class1|ep-class2|ep-class3|net-connect)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <med-device-type>ep-class1</med-device-type> <!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
 set lldp med-devtype (ep-class1|ep-class2|ep-class3|net-connect)
```

Configure local name

Interface sub type with local name

Attribute Name: local-name

Attribute Type: string

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <local-name>NAME</local-name> <!-- operation="delete"-->
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
 set lldp locally-assigned NAME
```

Configure agent type

LLDP agent type on this interface

Attribute Name: agent-type

Attribute Type: enum (non-tpmr-bridge|customer-bridge|default)

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent> <!-- operation="delete"-->
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
 lldp-agent (non-tpmr-bridge|customer-bridge|)
```

Configure enable tx rx

Enables interface with LLDP protocol and specifies to send and(or) receive packets on interface

Attribute Name: enable-tx-rx

Attribute Type: enum (rxonly|txonly|txrx)

Default Value: rxonly

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
      <enable-tx-rx>rxonly</enable-tx-rx> <!-- operation="delete"-->
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
 set lldp enable (rxonly|txonly|txrx)
```

Configure disable tx rx

Disables interface with LLDP protocol

Attribute Name: disable-tx-rx

Attribute Type: empty

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
```

```
        </disable-tx-rx><!-- operation="delete"-->
    </agent>
    </agents>
    </interface>
    </interfaces>
    </lldp>
```

Command Syntax

```
set lldp disable
```

Configure name

The minimum time interval an LLDP port waits before re-initializing an LLDP transmission

Attribute Name: reinit-delay

Attribute Type: uint32

Default Value: 2

Attribute Range: 1-10

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <transmit>
    <config>
           <reinit-delay>1</reinit-delay> <!-- operation="delete"-->
    </config>
</transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp timer reinit-delay <1-10>
```

Configure transmit message-tx-interval

The delay between successive LLDP frame transmissions during normal transmission periods

Attribute Name: message-tx-interval

Attribute Type: uint32

Default Value: 30

Attribute Range: 5-3600

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <transmit>
    <config>
           <message-tx-interval>5</message-tx-interval> <!-- operation="delete"-->
    </config>
</transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
 set lldp timer msg-tx-interval <5-3600>
```

Configure transmit message-tx-hold-multiplier

Multiplier of message-tx-interval to determine the Time To Live (TTL) that is carried in LLDP frames transmitted by the LLDP agent

Attribute Name: message-tx-hold-multiplier

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-100

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
```

```
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <agents>
   <agent>
      <agent-type>default</agent-type>
      <config>
         <agent-type>default</agent-type>
      </config>
      <transmit>
      <config>
            <message-tx-hold-multiplier>1</message-tx-hold-multiplier> <!--
operation="delete"-->
      </config>
   </transmit>
   </agent>
   </agents>
   </interface>
   </interfaces>
   </lldp>
```

Command Syntax

```
    set lldp msg-tx-hold <1-100>
```

Configure transmit message-fast-tx

The interval at which LLDP frames are transmitted on behalf of LLDP agent during fast transmission periods

Attribute Name: message-fast-tx

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <agents>
   <agent>
      <agent-type>default</agent-type>
      <config>
         <agent-type>default</agent-type>
      </config>
```

```
    <transmit>
    <config>
           <message-fast-tx>1</message-fast-tx> <!-- operation="delete"-->
    </config>
</transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp timer msg-fast-tx <1-3600>
```

Configure transmit tx-credit-max

The maximum number of consecutive LLDPDUs that can be transmitted at any time

Attribute Name: tx-credit-max

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-10

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <transmit>
    <config>
           <tx-credit-max>1</tx-credit-max> <!-- operation="delete"-->
    </config>
</transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp tx-max-credit <1-10>
```

Configure transmit tx-fast-init

The number of LLDPDUs to send during the fast transmission periods

Attribute Name: tx-fast-init

Attribute Type: uint32

Default Value: 4

Attribute Range: 1-8

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <transmit>
   <config>
         <tx-fast-init>1</tx-fast-init> <!-- operation="delete"-->
   </config>
</transmit>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp tx-fast-init <1-8>
```

Configure neighbor limit

This attribute configures timer to discard received message when remote table is full

Attribute Name: neighbor-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <receive>
    <config>
           <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
           <neighbor-timer>1</neighbor-timer> <!-- operation="delete"-->
    </config>
</receive>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard received-info timer <1-65535>
```

Configure port mac

This attribute configures timer to discard or delete existing info for received message port MAC when the remote table is full

Attribute Name: port-timer

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: neighbor-limit

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: port-mac

Attribute Type: string

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <receive>
   <config>
         <neighbor-limit>1</neighbor-limit> <!-- operation="delete"-->
         <port-mac>MAC</port-mac> <!-- operation="delete"-->
         <port-timer>1</port-timer> <!-- operation="delete"-->
   </config>
</receive>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp too-many-neighbors limit <1-65535> discard existing-info MAC timer <1-
  65535>
```

Configure agent-tlv port-address

This attribute specifies sub type of the Management Address TLV. Can be configured as mac-address, ip-address or ipv6-address

Attribute Name: port-address

Attribute Type: enum (mac-address|ip-address|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
```

```
    <agent-type>default</agent-type>
    <config>
       <agent-type>default</agent-type>
    </config>
    <agent-tlv>
    <config>
          <port-address>mac-address</port-address> <!-- operation="delete"-->
    </config>
</agent-tlv>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp management-address-tlv (mac-address|ip-address|ipv6-address)
```

Configure agent-tlv chassis-id

This attribute specifies chassis ID subtype for the LLDP agent on a port. Can be configured as if-alias or ip-address or ipv6-address or mac-address or if-name or locally-assgined name

Attribute Name: chassis-id

Attribute Type: enum (if-alias|ip-address|mac-address|if-name|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
       <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
       <agent-type>default</agent-type>
    </config>
    <agent-tlv>
    <config>
          <chassis-id>mac-address</chassis-id> <!-- operation="delete"-->
    </config>
</agent-tlv>
</agent>
</agents>
</interface>
</interfaces>
```

```
</lldp>
```

Command Syntax

```
set lldp chassis-id-tlv (if-alias|ip-address|mac-address|if-name|locally-
  assigned|ipv6-address)
```

Configure agent-tlv port-id

This attribute specifies sub type of the port id TLV. Can be configured as if-alias or mac-address or ip-address or ipv6-address or if-name or agent-circuit-id or locally assigned name

Attribute Name: port-id

Attribute Type: enum (if-alias|mac-address|ip-address|if-name|agt-circuit-id|locally-assigned|ipv6-address)

Default Value: mac-address

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <agent-tlv>
   <config>
         <port-id>mac-address</port-id> <!-- operation="delete"-->
   </config>
</agent-tlv>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp port-id-tlv (if-alias|mac-address|ip-address|if-name|agt-circuit-
  id|locally-assigned|ipv6-address)
```

Configure basic-management port-description

This attribute specifies to include basic management port description information in LLDP TLV

Attribute Name: port-description

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <tlv-control>
   <basic-management>
   <config>
         <port-description>not-set</port-description> <!-- operation="delete"-->
   </config>
</basic-management>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv basic-mgmt port-description (select|unselect)
```

Configure basic-management system-description

This attribute specifies to include basic management system description information in LLDP TLV

Attribute Name: system-description

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
```

```
       <agent-type>default</agent-type>
       <config>
          <agent-type>default</agent-type>
       </config>
       <tlv-control>
       <basic-management>
       <config>
              <system-description>not-set</system-description> <!-- operation="delete"-
->
       </config>
   </basic-management>
   </tlv-control>
   </agent>
   </agents>
   </interface>
   </interfaces>
   </lldp>
```

Command Syntax

```
lldp tlv basic-mgmt system-description (select|unselect)
```

Configure basic-management system-name

This attribute specifies to include basic management system name information in LLDP TLV

Attribute Name: system-name

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <agents>
   <agent>
      <agent-type>default</agent-type>
      <config>
         <agent-type>default</agent-type>
      </config>
      <tlv-control>
      <basic-management>
      <config>
             <system-name>not-set</system-name> <!-- operation="delete"-->
      </config>
   </basic-management>
   </tlv-control>
```

```
   </agent>
   </agents>
   </interface>
   </interfaces>
   </lldp>
```

Command Syntax

```
    lldp tlv basic-mgmt system-name (select|unselect)
```

Configure basic-management system-capabilities

This attribute specifies to include basic management system capabilities information in LLDP TLV

Attribute Name: system-capabilities

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <agents>
   <agent>
      <agent-type>default</agent-type>
      <config>
         <agent-type>default</agent-type>
      </config>
      <tlv-control>
      <basic-management>
      <config>
            <system-capabilities>not-set</system-capabilities> <!--
operation="delete"-->
      </config>
   </basic-management>
   </tlv-control>
   </agent>
   </agents>
   </interface>
   </interfaces>
   </lldp>
```

Command Syntax

```
    lldp tlv basic-mgmt system-capabilities (select|unselect)
```

Configure basic-management management-address

This attribute specifies to include basic management management-address information in LLDP TLV

Attribute Name: management-address

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <agents>
   <agent>
      <agent-type>default</agent-type>
      <config>
         <agent-type>default</agent-type>
      </config>
      <tlv-control>
      <basic-management>
      <config>
            <management-address>not-set</management-address> <!-- operation="delete"-
->
      </config>
   </basic-management>
   </tlv-control>
   </agent>
   </agents>
   </interface>
   </interfaces>
   </lldp>
```

Command Syntax

```
    lldp tlv basic-mgmt management-address (select|unselect)
```

Configure ieee-8021-org-specific port-vlan-id

This attribute specifies to include ieee-8021-org-specific port vlan-id information in LLDP TLV

Attribute Name: port-vlan-id

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
```

```
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <tlv-control>
   <ieee-8021-org-specific>
   <config>
         <port-vlan-id>not-set</port-vlan-id> <!-- operation="delete"-->
   </config>
</ieee-8021-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific port-vlanid (select|unselect)
```

Configure ieee-8021-org-specific port-protocol-vlan-id

This attribute specifies to include ieee-8021-org-specific port protocol vlan-id information in LLDP TLV

Attribute Name: port-protocol-vlan-id

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
```

```
       <tlv-control>
       <ieee-8021-org-specific>
       <config>
              <port-protocol-vlan-id>not-set</port-protocol-vlan-id> <!--
operation="delete"-->
       </config>
   </ieee-8021-org-specific>
   </tlv-control>
   </agent>
   </agents>
   </interface>
   </interfaces>
   </lldp>
```

Command Syntax

```
    lldp tlv ieee-8021-org-specific port-ptcl-vlanid (select|unselect)
```

Configure ieee-8021-org-specific vlan-name

This attribute specifies to include ieee-8021-org-specific vlan name information in LLDP TLV

Attribute Name: vlan-name

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <agents>
   <agent>
      <agent-type>default</agent-type>
      <config>
         <agent-type>default</agent-type>
      </config>
      <tlv-control>
      <ieee-8021-org-specific>
      <config>
             <vlan-name>not-set</vlan-name> <!-- operation="delete"-->
      </config>
   </ieee-8021-org-specific>
   </tlv-control>
   </agent>
   </agents>
   </interface>
   </interfaces>
```

```
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific vlan-name (select|unselect)
```

Configure ieee-8021-org-specific protocol-identifier

This attribute specifies to include ieee-8021-org-specific protocol identifier information in LLDP TLV

Attribute Name: protocol-identifier

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <tlv-control>
   <ieee-8021-org-specific>
   <config>
         <protocol-identifier>not-set</protocol-identifier> <!--
operation="delete"-->
   </config>
</ieee-8021-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific ptcl-identity (select|unselect)
```

Configure ieee-8021-org-specific vid-digest

This attribute specifies to include ieee-8021-org-specific vid usage digest information in LLDP TLV

Attribute Name: vid-digest

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <tlv-control>
   <ieee-8021-org-specific>
   <config>
         <vid-digest>not-set</vid-digest> <!-- operation="delete"-->
   </config>
</ieee-8021-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific vid-digest (select|unselect)
```

Configure ieee-8021-org-specific management-vlan-id

This attribute specifies to include ieee-8021-org-specific management vlan-id information in LLDP TLV

Attribute Name: management-vlan-id

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
```

```
       <agent-type>default</agent-type>
       <config>
          <agent-type>default</agent-type>
       </config>
       <tlv-control>
       <ieee-8021-org-specific>
       <config>
             <management-vlan-id>not-set</management-vlan-id> <!-- operation="delete"-
->
       </config>
    </ieee-8021-org-specific>
    </tlv-control>
    </agent>
    </agents>
    </interface>
    </interfaces>
    </lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific mgmt-vid (select|unselect)
```

Configure ieee-8021-org-specific link-aggregation

This attribute specifies to include ieee-8021-org-specific link aggregation information in LLDP TLV

Attribute Name: link-aggregation

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
    <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
    <interfaces>
    <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
    <agents>
    <agent>
       <agent-type>default</agent-type>
       <config>
          <agent-type>default</agent-type>
       </config>
       <tlv-control>
       <ieee-8021-org-specific>
       <config>
             <link-aggregation>not-set</link-aggregation> <!-- operation="delete"-->
       </config>
    </ieee-8021-org-specific>
    </tlv-control>
```

```
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific link-agg (select|unselect)
```

Configure ieee-8023-org-specific mac-phy

This attribute specifies to include ieee-8023-org-specific MAC or PHY information in LLDP TLV

Attribute Name: mac-phy

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <tlv-control>
   <ieee-8023-org-specific>
   <config>
         <mac-phy>not-set</mac-phy> <!-- operation="delete"-->
   </config>
</ieee-8023-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8023-org-specific mac-phy (select|unselect)
```

Configure ieee-8023-org-specific max-mtu-size

This attribute specifies to include ieee-8023-org-specific maximum mtu size information in LLDP TLV

Attribute Name: max-mtu-size

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<agents>
<agent>
   <agent-type>default</agent-type>
   <config>
      <agent-type>default</agent-type>
   </config>
   <tlv-control>
   <ieee-8023-org-specific>
   <config>
         <max-mtu-size>not-set</max-mtu-size> <!-- operation="delete"-->
   </config>
</ieee-8023-org-specific>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8023-org-specific max-mtu-size (select|unselect)
```

Configure network policy

Network policy information configured on the port for connected media endpoint. Following network policy will be supported VLAN ID, Priority Tagging, VLAN DSCP

Attribute Name: network-policy

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
```

```
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <tlv-control>
    <tlv-media-capabilities>
    <config>
           <network-policy>not-set</network-policy> <!-- operation="delete"-->
    </config>
</tlv-media-capabilities>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv med network-policy (select|unselect)
```

Configure location

Media Tlv type Location information configured for the port

Attribute Name: location

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
```

```
    <tlv-control>
    <tlv-media-capabilities>
    <config>
           <location>not-set</location> <!-- operation="delete"-->
    </config>
</tlv-media-capabilities>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv med location (select|unselect)
```

Configure inventory

Includes the TLV for information like hardware revision, software revision etc based on the current hardware platform and the software version

Attribute Name: inventory

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
<lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<agents>
<agent>
    <agent-type>default</agent-type>
    <config>
        <agent-type>default</agent-type>
    </config>
    <tlv-control>
    <tlv-media-capabilities>
    <config>
           <inventory>not-set</inventory> <!-- operation="delete"-->
    </config>
</tlv-media-capabilities>
</tlv-control>
</agent>
</agents>
</interface>
</interfaces>
```

```
   </lldp>
```

Command Syntax

```
    lldp tlv med inventory (select|unselect)
```

Configure media capabilities

Includes various media-capabilities of the box for the neighbor

Attribute Name: media-capabilities

Attribute Type: enum (not-set|select|unselect)

Default Value: not-set

Netconf edit-config payload

```
   <lldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <agents>
   <agent>
      <agent-type>default</agent-type>
      <config>
         <agent-type>default</agent-type>
      </config>
      <tlv-control>
      <tlv-media-capabilities>
      <config>
            <media-capabilities>not-set</media-capabilities> <!-- operation="delete"-
->
      </config>
   </tlv-media-capabilities>
   </tlv-control>
   </agent>
   </agents>
   </interface>
   </interfaces>
   </lldp>
```

Command Syntax

```
    lldp tlv med media-capabilities (select|unselect)
```

debug lldp (event|rx|tx|message|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|message|ha|all)

Netconf RPC payload

```
<lldp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<terminal-debug-options>event</terminal-debug-options>
</lldp-terminal-debug-on>
```

Command Syntax

```
debug lldp (event|rx|tx|message|ha|all)
```

no debug lldp (event|rx|tx|message|ha|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|message|ha|all)

Netconf RPC payload

```
<lldp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
lldpv2">
<terminal-debug-options>event</terminal-debug-options>
</lldp-terminal-debug-off>
```

Command Syntax

```
no debug lldp (event|rx|tx|message|ha|all)
```

clear lldp counters ((IFNAME|)|)

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-lldp-counter xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interface-name>IFNAME</interface-name>
</clear-lldp-counter>
```

Command Syntax

```
clear lldp counters ((IFNAME|)|)
```

clear lldp neighbors ((IFNAME|)|)

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<clear-lldp-neighbors xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2">
<interface-name>IFNAME</interface-name>
</clear-lldp-neighbors>
```

Command Syntax

```
clear lldp neighbors ((IFNAME|)|)
```

snmp restart lldp

Netconf RPC payload

```
<lldp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-lldpv2"/>
```

Command Syntax

```
snmp restart lldp
```

IPI-RIB

Configure prefix

Use this attribute to configure a prefix for an IPv4 static route (e.g. 10.0.0.0/8)

Attribute Name: prefix

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route> <!-- operation="delete"-->
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         <config>
            <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         </config>
      </static-route>
   </ipv4>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure gateway

Use this attribute to configure an IPv4 gateway address for next hop for this destination prefix

Attribute Name: gateway

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
       <ipv4>
       <static-route>
          <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          <config>
             <prefix>A.B.C.D/M</prefix>
          </config>
          <next-hops-gateway>
          <next-hop-gateway> <!-- operation="delete"-->
             <gateway>A.B.C.D</gateway>
             <config>
                <gateway>A.B.C.D</gateway>
             </config>
          </next-hop-gateway>
       </next-hops-gateway>
    </static-route>
    </ipv4>
    </static-routing>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D
```

Configure bfd state

Use this attribute to set fall-over detection.

Attribute Name: bfd-state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
```

```
        <instance-type>vrf</instance-type>
      </config>
        <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route>
        <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
        <config>
          <prefix>A.B.C.D/M</prefix>
        </config>
        <next-hops-gateway>
        <next-hop-gateway>
          <gateway>A.B.C.D</gateway>
          <config>
            <gateway>A.B.C.D</gateway>
          </config>
            <bfd-state>disable</bfd-state> <!-- operation="delete"-->
        </next-hop-gateway>
      </next-hops-gateway>
  </static-route>
  </ipv4>
  </static-routing>
  </network-instance>
  </network-instances>
```

Command Syntax

```
ip static (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D fall-over-bfd
  (disable|enable)
```

Configure description

Use this attribute to set the description of this static route.

Attribute Name: description

Attribute Type: string

Attribute Name: interface

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route>
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         <config>
            <prefix>A.B.C.D/M</prefix>
         </config>
         <next-hops-gateway>
         <next-hop-gateway>
            <gateway>A.B.C.D</gateway>
            <config>
               <gateway>A.B.C.D</gateway>
               <interface>IFNAME</interface> <!-- operation="delete"-->
               <distance>1</distance> <!-- operation="delete"-->
               <tag>0</tag> <!-- operation="delete"-->
               <track-id>1</track-id> <!-- operation="delete"-->
               </recursive><!-- operation="delete"-->
            </config>
               <description>LINE</description> <!-- operation="delete"-->
         </next-hop-gateway>
      </next-hops-gateway>
   </static-route>
   </ipv4>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D IFNAME (<1-255>|) (tag <0-
      4294967295>|) (track <1-500>|) (recursive|) (description LINE|)
```

Configure instance name

Use this attribute to set the description of this static route.

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route>
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         <config>
            <prefix>A.B.C.D/M</prefix>
         </config>
         <next-hops-gateway>
         <next-hop-gateway>
            <gateway>A.B.C.D</gateway>
            <config>
               <gateway>A.B.C.D</gateway>
               <distance>1</distance> <!-- operation="delete"-->
               <tag>0</tag> <!-- operation="delete"-->
               <track-id>1</track-id> <!-- operation="delete"-->
               </recursive><!-- operation="delete"-->
            </config>
               <description>LINE</description> <!-- operation="delete"-->
         </next-hop-gateway>
```

```
      </next-hops-gateway>
   </static-route>
   </ipv4>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D (<1-255>|) (tag <0-
      4294967295>|) (track <1-500>|) (recursive|) (description LINE|)
```

Configure recursive

Use this attribute to enable recursive resolution for this route.

Attribute Name: recursive

Attribute Type: empty

Attribute Name: interface

Attribute Type: string

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route>
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         <config>
            <prefix>A.B.C.D/M</prefix>
         </config>
         <next-hops-gateway>
         <next-hop-gateway>
            <gateway>A.B.C.D</gateway>
            <config>
               <gateway>A.B.C.D</gateway>
               <interface>IFNAME</interface> <!-- operation="delete"-->
```

```
                </enable-global-table-lookup><!-- operation="delete"-->
                <track-id>1</track-id> <!-- operation="delete"-->
             </config>
                </recursive><!-- operation="delete"-->
          </next-hop-gateway>
       </next-hops-gateway>
    </static-route>
    </ipv4>
    </static-routing>
    </network-instance>
    </network-instances>
```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D IFNAME global (track <1-
  500>|) (recursive|)
```

Configure enable global table lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
       <ipv4>
       <static-route>
          <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
          <config>
             <prefix>A.B.C.D/M</prefix>
          </config>
          <next-hops-gateway>
          <next-hop-gateway>
             <gateway>A.B.C.D</gateway>
             <config>
                <gateway>A.B.C.D</gateway>
             </config>
                </enable-global-table-lookup><!-- operation="delete"-->
          </next-hop-gateway>
       </next-hops-gateway>
    </static-route>
```

```
   </ipv4>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D global
```

Configure interface

Use this attribute to configure a interface for next hop for this destination prefix

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route>
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         <config>
            <prefix>A.B.C.D/M</prefix>
         </config>
         <next-hops-interface>
         <next-hop-interface> <!-- operation="delete"-->
            <interface>IFNAME</interface>
            <config>
               <interface>IFNAME</interface>
            </config>
         </next-hop-interface>
      </next-hops-interface>
   </static-route>
   </ipv4>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME
```

Configure instance type

Use this attribute to set the description of this static route.

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route>
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         <config>
            <prefix>A.B.C.D/M</prefix>
         </config>
         <next-hops-interface>
         <next-hop-interface>
            <interface>IFNAME</interface>
            <config>
               <interface>IFNAME</interface>
               <distance>1</distance> <!-- operation="delete"-->
               <tag>0</tag> <!-- operation="delete"-->
               <track-id>1</track-id> <!-- operation="delete"-->
            </config>
               <description>LINE</description> <!-- operation="delete"-->
         </next-hop-interface>
```

```
      </next-hops-interface>
   </static-route>
   </ipv4>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME (<1-255>|) (tag <0-
      4294967295>|) (track <1-500>|) (description LINE|)
```

Configure track id

Use this attribute to track a object.

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv4>
      <static-route>
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
         <config>
            <prefix>A.B.C.D/M</prefix>
         </config>
         <next-hops-interface>
         <next-hop-interface>
            <interface>IFNAME</interface>
            <config>
               <interface>IFNAME</interface>
               </enable-global-table-lookup><!-- operation="delete"-->
            </config>
               <track-id>1</track-id> <!-- operation="delete"-->
         </next-hop-interface>
      </next-hops-interface>
   </static-route>
```

```
</ipv4>
</static-routing>
</network-instance>
</network-instances>
```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME global (track <1-500>|)
```

Configure next-hop-interface enable-global-table-lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>NAME</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
   </config>
      <instance-type>vrf</instance-type>
   <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
   <ipv4>
   <static-route>
      <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
      <config>
         <prefix>A.B.C.D/M</prefix>
      </config>
      <next-hops-interface>
      <next-hop-interface>
         <interface>IFNAME</interface>
         <config>
            <interface>IFNAME</interface>
         </config>
            </enable-global-table-lookup><!-- operation="delete"-->
      </next-hop-interface>
   </next-hops-interface>
</static-route>
</ipv4>
</static-routing>
</network-instance>
</network-instances>
```

Command Syntax

```
ip route (vrf NAME|) (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME global
```

Configure ipv6 prefix

Use this attribute to configure a prefix for an IPv6 static route (e.g. 3ffe:506::/32)

This command is supported when following feature are enabled ipv6 feature

Attribute Name: prefix

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
      <static-route> <!-- operation="delete"-->
         <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
         <config>
            <prefix>X:X::X:X/M</prefix>
         </config>
      </static-route>
   </ipv6>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X)
```

Configure next-hops-gateway gateway

Use this attribute to configure an IPv6 gateway address for next hop for this destination prefix

This command is supported when following feature are enabled ipv6 feature

Attribute Name: gateway

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
```

```
    </config>
       <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv6>
    <static-route>
       <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
       <config>
          <prefix>X:X::X:X/M</prefix>
       </config>
       <next-hops-gateway>
       <next-hop-gateway> <!-- operation="delete"-->
          <gateway>X:X::X:X</gateway>
          <config>
             <gateway>X:X::X:X</gateway>
          </config>
       </next-hop-gateway>
    </next-hops-gateway>
 </static-route>
 </ipv6>
 </static-routing>
 </network-instance>
 </network-instances>
```

Command Syntax

```
 ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X
```

Configure next-hop-gateway bfd-state

Use this attribute to set fall-over detection.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: bfd-state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
       <ipv6>
       <static-route>
          <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
          <config>
             <prefix>X:X::X:X/M</prefix>
```

```
          </config>
          <next-hops-gateway>
          <next-hop-gateway>
             <gateway>X:X::X:X</gateway>
             <config>
                <gateway>X:X::X:X</gateway>
             </config>
                <bfd-state>disable</bfd-state> <!-- operation="delete"-->
          </next-hop-gateway>
       </next-hops-gateway>
    </static-route>
    </ipv6>
    </static-routing>
    </network-instance>
    </network-instances>
```

Command Syntax

```
ipv6 static (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X fall-over-bfd
  (disable|enable)
```

Configure distance

Use this attribute to set the description of this static route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: description

Attribute Type: string

Attribute Name: interface

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
```

```
        <instance-type>vrf</instance-type>
    </config>
        <instance-type>vrf</instance-type>
    <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
    <ipv6>
    <static-route>
        <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
        <config>
            <prefix>X:X::X:X/M</prefix>
        </config>
        <next-hops-gateway>
        <next-hop-gateway>
            <gateway>X:X::X:X</gateway>
            <config>
                <gateway>X:X::X:X</gateway>
                <interface>IFNAME</interface> <!-- operation="delete"-->
                <distance>1</distance> <!-- operation="delete"-->
                <track-id>1</track-id> <!-- operation="delete"-->
                </recursive><!-- operation="delete"-->
            </config>
                <description>LINE</description> <!-- operation="delete"-->
        </next-hop-gateway>
    </next-hops-gateway>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>
```

Command Syntax

```
ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X IFNAME (<1-255>|)
  (track <1-500>|) (recursive|) (description LINE|)
```

Configure next-hop-gateway description

Use this attribute to set the description of this static route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: recursive

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
      <static-route>
         <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
         <config>
            <prefix>X:X::X:X/M</prefix>
         </config>
         <next-hops-gateway>
         <next-hop-gateway>
            <gateway>X:X::X:X</gateway>
            <config>
               <gateway>X:X::X:X</gateway>
               <distance>1</distance> <!-- operation="delete"-->
               <track-id>1</track-id> <!-- operation="delete"-->
               </recursive><!-- operation="delete"-->
            </config>
               <description>LINE</description> <!-- operation="delete"-->
         </next-hop-gateway>
      </next-hops-gateway>
   </static-route>
   </ipv6>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X (<1-255>|) (track
      <1-500>|) (recursive|) (description LINE|)
```

Configure next-hop-gateway recursive

Use this attribute to enable recursive resolution for this route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: recursive

Attribute Type: empty

Attribute Name: interface

Attribute Type: string

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
      <static-route>
         <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
         <config>
            <prefix>X:X::X:X/M</prefix>
         </config>
         <next-hops-gateway>
         <next-hop-gateway>
            <gateway>X:X::X:X</gateway>
            <config>
               <gateway>X:X::X:X</gateway>
               <interface>IFNAME</interface> <!-- operation="delete"-->
               </enable-global-table-lookup><!-- operation="delete"-->
               <track-id>1</track-id> <!-- operation="delete"-->
            </config>
               </recursive><!-- operation="delete"-->
         </next-hop-gateway>
      </next-hops-gateway>
   </static-route>
   </ipv6>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X IFNAME global (track
   <1-500>|) (recursive|)
```

Configure next-hop-gateway enable-global-table-lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
      <static-route>
         <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
         <config>
            <prefix>X:X::X:X/M</prefix>
         </config>
         <next-hops-gateway>
         <next-hop-gateway>
            <gateway>X:X::X:X</gateway>
            <config>
               <gateway>X:X::X:X</gateway>
            </config>
               </enable-global-table-lookup><!-- operation="delete"-->
         </next-hop-gateway>
      </next-hops-gateway>
   </static-route>
   </ipv6>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) X:X::X:X global
```

Configure next-hops-interface interface

Use this attribute to configure a interface for next hop for this destination prefix

This command is supported when following feature are enabled ipv6 feature

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
      <static-route>
         <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
         <config>
            <prefix>X:X::X:X/M</prefix>
         </config>
         <next-hops-interface>
         <next-hop-interface> <!-- operation="delete"-->
            <interface>IFNAME</interface>
            <config>
               <interface>IFNAME</interface>
            </config>
         </next-hop-interface>
      </next-hops-interface>
   </static-route>
   </ipv6>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME
```

Configure next-hop-interface description

Use this attribute to set the description of this static route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: description

Attribute Type: string

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
       <ipv6>
       <static-route>
          <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
          <config>
             <prefix>X:X::X:X/M</prefix>
          </config>
          <next-hops-interface>
          <next-hop-interface>
             <interface>IFNAME</interface>
             <config>
                <interface>IFNAME</interface>
                <distance>1</distance> <!-- operation="delete"-->
                <track-id>1</track-id> <!-- operation="delete"-->
             </config>
                <description>LINE</description> <!-- operation="delete"-->
          </next-hop-interface>
       </next-hops-interface>
    </static-route>
    </ipv6>
    </static-routing>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME (<1-255>|) (track <1-
   500>|) (description LINE|)
```

Configure next-hop-interface track-id

Use this attribute to track a object.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
      <ipv6>
      <static-route>
         <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
         <config>
            <prefix>X:X::X:X/M</prefix>
         </config>
         <next-hops-interface>
         <next-hop-interface>
            <interface>IFNAME</interface>
            <config>
               <interface>IFNAME</interface>
               </enable-global-table-lookup><!-- operation="delete"-->
            </config>
               <track-id>1</track-id> <!-- operation="delete"-->
         </next-hop-interface>
      </next-hops-interface>
   </static-route>
   </ipv6>
   </static-routing>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME global (track <1-
      500>|)
```

Configure next-hop-interface enable-global-table-lookup

Use this attribute to create an VRF static route with gateway in default VRF table.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: enable-global-table-lookup

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```
<network-instance>
   <instance-name>NAME</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
   </config>
      <instance-type>vrf</instance-type>
   <static-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
   <ipv6>
   <static-route>
      <prefix>X:X::X:X/M|X:X::X:X X:X::X:X</prefix>
      <config>
         <prefix>X:X::X:X/M</prefix>
      </config>
      <next-hops-interface>
      <next-hop-interface>
         <interface>IFNAME</interface>
         <config>
            <interface>IFNAME</interface>
         </config>
            </enable-global-table-lookup><!-- operation="delete"-->
      </next-hop-interface>
   </next-hops-interface>
</static-route>
</ipv6>
</static-routing>
</network-instance>
</network-instances>
```

Command Syntax

```
ipv6 route (vrf NAME|) (X:X::X:X/M|X:X::X:X X:X::X:X) IFNAME global
```

Configure fib retain

Use this attribute to configure retain time for stale routes (forever or specific time in seconds) in FIB after RIB restarts

Attribute Name: fib-retain

Attribute Type: union

Default Value: 60

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<global>
<config>
   <fib-retain>60</fib-retain> <!-- operation="delete"-->
</config>
</global>
</routing>
```

Command Syntax

```
fib retain (time <1-65535>|forever|)
```

Configure max ecmp paths

Use this attribute to set the maximum number of paths to install in the FIB (Forwarding Information Base) for the ECMP (Equal-Cost MultiPath) feature.

Attribute Name: max-ecmp-paths

Attribute Type: uint8

Default Value: 8

Attribute Range: 1-64

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<global>
<config>
   <max-ecmp-paths>1</max-ecmp-paths> <!-- operation="delete"-->
</config>
</global>
</routing>
```

Command Syntax

```
maximum-paths <1-64>
```

Configure max static routes

Use this attribute to set the maximum number of static routes.

Attribute Name: max-static-routes

Attribute Type: uint32

Default Value: 4294967294

Attribute Range: 1-4294967294

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<global>
<config>
   <max-static-routes>1</max-static-routes> <!-- operation="delete"-->
</config>
</global>
</routing>
```

Command Syntax

```
max-static-routes <1-4294967294>
```

Configure max fib routes

Use this attribute to set the maximum number of FIB (Forwarding Information Base) routes excluding kernel, connected, and static routes.

Attribute Name: max-fib-routes

Attribute Type: uint32

Attribute Range: 1-16384

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<global>
<config>
   <max-fib-routes>1</max-fib-routes> <!-- operation="delete"-->
</config>
</global>
</routing>
```

Command Syntax

```
max-fib-routes <1-16384>
```

Configure ipv4 enable bfd all interfaces

Use this attribute to enable static BFD on all interfaces.

Attribute Name: ipv4-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<global>
<config>
   </ipv4-enable-bfd-all-interfaces><!-- operation="delete"-->
</config>
</global>
</routing>
```

Command Syntax

```
ip bfd static all-interfaces
```

Configure ipv6 enable bfd all interfaces

Use this attribute to enable ipv6 static BFD on all interfaces.

Attribute Name: ipv6-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
```

```
<global>
<config>
   </ipv6-enable-bfd-all-interfaces><!-- operation="delete"-->
</config>
</global>
</routing>
```

Command Syntax

```
ipv6 bfd static all-interfaces
```

Configure rib options

Use this attribute to debug the ribd process.

Attribute Name: rib-options

Attribute Type: bits (all|events|packet|packet send|packet recv|packet detail|packet send detail|packet recv detail|nsm|bfd|monitor|hal events)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<debug>
<config>
   <rib-options>all</rib-options> <!-- operation="delete"-->
</config>
</debug>
</routing>
```

Command Syntax

```
debug rib (all|events|packet|packet send|packet recv|packet detail|packet send
  detail|packet recv detail|nsm|bfd|monitor|hal events)
```

Configure ipv4 routing options

Use this attribute to debug ip route.

Attribute Name: ipv4-routing-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<debug>
<config>
   <ipv4-routing-options>all</ipv4-routing-options> <!-- operation="delete"-->
</config>
</debug>
</routing>
```

Command Syntax

```
debug ip routing (all|add-route|delete-route|mod-route)
```

Configure ipv6 routing options

Use this attribute to debug ipv6 route.

Attribute Name: ipv6-routing-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<debug>
<config>
   <ipv6-routing-options>all</ipv6-routing-options> <!-- operation="delete"-->
</config>
</debug>
</routing>
```

Command Syntax

```
 debug ipv6 routing (all|add-route|delete-route|mod-route)
```

Configure source prefix

Use this attribute to configure administrative distance for mroute.

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<static-routes>
<ipv4>
<multicast-routes>
<multicast-route>
   <protocol-type>default</protocol-type>
   <config>
      <protocol-type>default</protocol-type>
      <source-prefix>A.B.C.D/M</source-prefix>
      <gateway-address>A.B.C.D</gateway-address>
   </config>
   <source-prefix>A.B.C.D/M</source-prefix>
   <distance>0</distance>
</multicast-route>
</multicast-routes>
</ipv4>
</static-routes>
</routing>
```

Command Syntax

```
ip mroute A.B.C.D/M ((static|rip|ospf|bgp|isis)|) A.B.C.D (<0-255>|)
```

Configure protocol type

Use this attribute to configure administrative distance for mroute.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-mroute

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<static-routes>
<ipv6>
<multicast-routes>
<multicast-route>
   <protocol-type>default</protocol-type>
   <config>
      <protocol-type>default</protocol-type>
      <source-prefix>X:X::X:X/M</source-prefix>
   </config>
   <source-prefix>X:X::X:X/M</source-prefix>
<nexthop>
<config>
      <gateway-mroute>X:X::X:X</gateway-mroute>
      <distance>0</distance>
</config>
</nexthop>
</multicast-route>
</multicast-routes>
</ipv6>
</static-routes>
</routing>
```

Command Syntax

```
ipv6 mroute X:X::X:X/M ((static|rip|ospf|bgp|isis)|) X:X::X:X (<0-255>|)
```

Configure ipv4 enable bfd

Use this attribute to enable or disable Bidirectional Forwarding Detection static routes.

This command is supported when following feature are enabled bfd feature

Attribute Name: ipv4-enable-bfd

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<bfd>
<config>
      <ipv4-enable-bfd>enable</ipv4-enable-bfd> <!-- operation="delete"-->
</config>
</bfd>
</interface>
</interfaces>
</routing>
```

Command Syntax

```
ip static bfd (enable|disable)
```

Configure ipv6 enable bfd

Use this attribute to enable or disable Bidirectional Forwarding Detection static routes.

This command is supported when following feature are enabled bfd feature

Attribute Name: ipv6-enable-bfd

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<bfd>
<config>
      <ipv6-enable-bfd>enable</ipv6-enable-bfd> <!-- operation="delete"-->
</config>
</bfd>
</interface>
</interfaces>
</routing>
```

Command Syntax

```
ipv6 static bfd (enable|disable)
```

snmp restart rib

Netconf RPC payload

```
<rib-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
snmp restart rib
```

clear ip route kernel

Netconf RPC payload

```
<clear-ip-stale-kernel-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ip route kernel
```

clear ip kernel route

Netconf RPC payload

```
<clear-ip-kernel-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ip kernel route
```

clear ipv6 route kernel

Netconf RPC payload

```
<clear-ipv6-stale-kernel-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ipv6 route kernel
```

clear ip route *

Netconf RPC payload

```
<clear-ip-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ip route *
```

clear ip route A.B.C.D/M

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<clear-ip-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<prefix-address>A.B.C.D/M</prefix-address>
</clear-ip-route>
```

Command Syntax

```
clear ip route A.B.C.D/M
```

clear ipv4 route *

Netconf RPC payload

```
<clear-ipv4-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ipv4 route *
```

clear ipv4 route A.B.C.D/M

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv4-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<prefix-address>A.B.C.D/M</prefix-address>
</clear-ipv4-route>
```

Command Syntax

```
clear ipv4 route A.B.C.D/M
```

clear ipv6 route *

Netconf RPC payload

```
<clear-ipv6-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib"/>
```

Command Syntax

```
clear ipv6 route *
```

clear ipv6 route X:X::X:X/M

Attribute Name: prefix-ipv6-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
```

```
<prefix-ipv6-address>X:X::X:X/M</prefix-ipv6-address>
</clear-ipv6-route>
```

Command Syntax

```
clear ipv6 route X:X::X:X/M
```

debug rib (all|events|packet|packet send|packet recv|packet detail|packet send detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet send|packet recv|packet detail|packet send detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)

Netconf RPC payload

```
<rib-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-on>
```

Command Syntax

```
debug rib (all|events|packet|packet send|packet recv|packet detail|packet send
  detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)
```

no debug rib (all|events|packet|packet send|packet recv|packet detail|packet send detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet send|packet recv|packet detail|packet send detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)

Netconf RPC payload

```
<rib-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-off>
```

Command Syntax

```
no debug rib (all|events|packet|packet send|packet recv|packet detail|packet send
  detail|packet recv detail|nsm|bfd|monitor|hal events|hal ipc)
```

debug ip routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv4-routing-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rib">
<terminal-debug-options>all</terminal-debug-options>
</rib-terminal-debug-ipv4-routing-on>
```

Command Syntax

```
debug ip routing (all|add-route|delete-route|mod-route)
```

no debug ip routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
      <rib-terminal-debug-ipv4-routing-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rib">
      <terminal-debug-options>all</terminal-debug-options>
      </rib-terminal-debug-ipv4-routing-off>
```

Command Syntax

```
no debug ip routing (all|add-route|delete-route|mod-route)
```

debug ipv6 routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
      <rib-terminal-debug-ipv6-routing-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rib">
      <terminal-debug-options>all</terminal-debug-options>
      </rib-terminal-debug-ipv6-routing-on>
```

Command Syntax

```
debug ipv6 routing (all|add-route|delete-route|mod-route)
```

no debug ipv6 routing (all|add-route|delete-route|mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|add-route|delete-route|mod-route)

Netconf RPC payload

```
      <rib-terminal-debug-ipv6-routing-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rib">
      <terminal-debug-options>all</terminal-debug-options>
      </rib-terminal-debug-ipv6-routing-off>
```

Command Syntax

```
no debug ipv6 routing (all|add-route|delete-route|mod-route)
```

IPI-RIB-VRF

Configure ipv4 enable bfd all interfaces

Use this attribute to enable static BFD on all interfaces.

Attribute Name: ipv4-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
         <config>
                </ipv4-enable-bfd-all-interfaces><!-- operation="delete"-->
         </config>
      </global>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 ip bfd vrf NAME static all-interfaces
```

Configure ipv6 enable bfd all interfaces

Use this attribute to enable ipv6 static BFD on all interfaces.

Attribute Name: ipv6-enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
```

```
          <instance-type>vrf</instance-type>
       <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
          <global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
          <config>
                 </ipv6-enable-bfd-all-interfaces><!-- operation="delete"-->
          </config>
       </global>
    </vrf>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 ipv6 bfd vrf NAME static all-interfaces
```

Configure distance

Use this attribute to configure administrative distance for mroute.

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
          <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
          <ipv4>
          <multicast-routes>
          <multicast-route>
             <protocol-type>default</protocol-type>
             <config>
                <protocol-type>default</protocol-type>
                <source-prefix>A.B.C.D/M</source-prefix>
                <gateway-address>A.B.C.D</gateway-address>
             </config>
                <source-prefix>A.B.C.D/M</source-prefix>
                <distance>0</distance>
          </multicast-route>
       </multicast-routes>
```

```
   </ipv4>
   </static-routes>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    ip mroute vrf NAME A.B.C.D/M ((static|rip|ospf|bgp|isis)|) A.B.C.D (<0-255>|)
```

Configure instance name

Use this attribute to configure administrative distance for mroute.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: distance

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: gateway-mroute

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
         <ipv6>
         <multicast-routes>
         <multicast-route>
            <protocol-type>default</protocol-type>
            <config>
               <protocol-type>default</protocol-type>
               <source-prefix>X:X::X:X/M</source-prefix>
            </config>
               <source-prefix>X:X::X:X/M</source-prefix>
            <nexthop>
            <config>
                  <gateway-mroute>X:X::X:X</gateway-mroute>
                  <distance>0</distance>
            </config>
         </nexthop>
      </multicast-route>
   </multicast-routes>
```

```
</ipv6>
</static-routes>
</vrf>
</network-instance>
</network-instances>
```

Command Syntax

```
ipv6 mroute vrf NAME X:X::X:X/M ((static|rip|ospf|bgp|isis)|) X:X::X:X (<0-255>|)
```

Configure max limit

Use this attribute to limit the maximum number of routes to be installed in VRF FIB.

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: limit-action

Attribute Type: enum (stop-install|warning-only)

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>WORD</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>vrf</instance-type>
   </config>
      <instance-type>vrf</instance-type>
   <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
      <ipv4>
      <config>
             <limit-action>stop-install</limit-action>
             <max-limit>1</max-limit>
      </config>
   </ipv4>
</maximum-fib-routes>
</vrf>
</network-instance>
</network-instances>
```

Command Syntax

```
maximum-fib-routes ipv4 <1-2147483647> (stop-install|warning-only)
```

Configure warning threshold

Use this attribute to define a percentage of the maximum route limit which when crossed results in a warning message and Netconf notification being raised. Default is 80%.

Attribute Name: warning-threshold

Attribute Type: uint8

Default Value: 80

Attribute Range: 1-100

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
         <ipv4>
         <config>
                <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
         </config>
      </ipv4>
   </maximum-fib-routes>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 maximum-fib-routes ipv4 threshold <1-100>
```

Configure instance type

Use this attribute to limit the maximum number of routes to be installed in VRF FIB.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: limit-action

Attribute Type: enum (stop-install|warning-only)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
```

```
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
          <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
          <ipv6>
          <config>
                 <limit-action>stop-install</limit-action>
                 <max-limit>1</max-limit>
          </config>
       </ipv6>
    </maximum-fib-routes>
    </vrf>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 maximum-fib-routes ipv6 <1-2147483647> (stop-install|warning-only)
```

Configure ipv6 warning-threshold

Use this attribute to define a percentage of the maximum route limit which when crossed results in a warning message and Netconf notification being raised. Default is 80%.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: warning-threshold

Attribute Type: uint8

Default Value: 80

Attribute Range: 1-100

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>WORD</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vrf</instance-type>
       <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
          <maximum-fib-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
          <ipv6>
          <config>
                 <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
          </config>
       </ipv6>
    </maximum-fib-routes>
    </vrf>
```

```
   </network-instance>
   </network-instances>
```

Command Syntax

```
    maximum-fib-routes ipv6 threshold <1-100>
```

clear ip route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <clear-ip-vrf-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-
vrf">
       <vrf-name>NAME</vrf-name>
       </clear-ip-vrf-route-all>
```

Command Syntax

```
    clear ip route vrf NAME *
```

clear ip route vrf NAME A.B.C.D/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
       <clear-ip-vrf-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
       <vrf-name>NAME</vrf-name>
       <prefix-address>A.B.C.D/M</prefix-address>
       </clear-ip-vrf-route>
```

Command Syntax

```
    clear ip route vrf NAME A.B.C.D/M
```

clear ipv4 route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <clear-ipv4-vrf-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-
vrf">
       <vrf-name>NAME</vrf-name>
       </clear-ipv4-vrf-route-all>
```

Command Syntax

```
clear ipv4 route vrf NAME *
```

clear ipv4 route vrf NAME A.B.C.D/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv4-vrf-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
<vrf-name>NAME</vrf-name>
<prefix-address>A.B.C.D/M</prefix-address>
</clear-ipv4-vrf-route>
```

Command Syntax

```
clear ipv4 route vrf NAME A.B.C.D/M
```

clear ipv6 route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-vrf-route-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-
vrf">
<vrf-name>NAME</vrf-name>
</clear-ipv6-vrf-route-all>
```

Command Syntax

```
clear ipv6 route vrf NAME *
```

clear ipv6 route vrf NAME X:X::X:X/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix-ipv6-address

Attribute Type: string

Netconf RPC payload

```
<clear-ipv6-vrf-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
<vrf-name>NAME</vrf-name>
<prefix-ipv6-address>X:X::X:X/M</prefix-ipv6-address>
</clear-ipv6-vrf-route>
```

Command Syntax

```
clear ipv6 route vrf NAME X:X::X:X/M
```

IPI-OSPF

Configure area interface config mode

Use this attribute to set the OSPF area interface mode operation. Enabling this makes OSPF compatible with OpenConfig datamodel.

Attribute Name: area-interface-config-mode

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<config>
   </area-interface-config-mode><!-- operation="delete"-->
</config>
</global>
</ospfv2>
```

Command Syntax

```
ospf area-interface-config-mode
```

Configure enable multi instance capability

Use this attribute to enable OSPF multiple instances capability.

Attribute Name: enable-multi-instance-capability

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<config>
   </enable-multi-instance-capability><!-- operation="delete"-->
</config>
</global>
</ospfv2>
```

Command Syntax

```
enable ext-ospf-multi-inst
```

Configure grace period

Use this attribute to set the grace period for restarting the router OSPF.

This command is supported when following feature are enabled Restart capability

Attribute Name: grace-period

Attribute Type: uint16

Default Value: 120

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<graceful-restart>
<config>
   <grace-period>2</grace-period> <!-- operation="delete"-->
</config>
</graceful-restart>
</global>
</ospfv2>
```

Command Syntax

```
ospf restart grace-period <2-1800>
```

Configure max grace period

Use this attribute to set the maximum grace period. Act as helper only if received grace-period is less than this value.

This command is supported when following feature are enabled Restart capability

Attribute Name: max-grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<graceful-restart>
<helper>
<config>
   <max-grace-period>2</max-grace-period> <!-- operation="delete"-->
</config>
</helper>
</graceful-restart>
</global>
</ospfv2>
```

Command Syntax

```
ospf restart helper max-grace-period <2-1800>
```

Configure disable all neighbors

Use this attribute to prevent the router OSPF from acting as helper for any neighbor.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-all-neighbors

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<graceful-restart>
<helper>
<config>
   </disable-all-neighbors><!-- operation="delete"-->
</config>
</helper>
</graceful-restart>
</global>
</ospfv2>
```

Command Syntax

```
ospf restart helper never
```

Configure disable neighbor

Use this attribute to set the neighbor router-id for which never act as helper.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-neighbor

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<graceful-restart>
<helper>
<config>
   <disable-neighbor>A.B.C.D</disable-neighbor> <!-- operation="delete"-->
</config>
</helper>
</graceful-restart>
</global>
</ospfv2>
```

Command Syntax

```
ospf restart helper never router-id A.B.C.D
```

Configure tie break method

Use this attribute to set the CSPF (Constrained Shortest Path First) tie-break method.

This command is supported when following feature are enabled OSPF Constrained Shortest Path First (CSPF)

Attribute Name: tie-break-method

Attribute Type: enum (random|most-fill|least-fill)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<cspf>
<config>
   <tie-break-method>random</tie-break-method> <!-- operation="delete"-->
</config>
</cspf>
</global>
</ospfv2>
```

Command Syntax

```
ospf cspf tie-break (random|most-fill|least-fill)
```

Configure default retry interval

Use this attribute to set the CSPF (Constrained Shortest Path First) default computation retry-interval.

This command is supported when following feature are enabled OSPF Constrained Shortest Path First (CSPF)

Attribute Name: default-retry-interval

Attribute Type: uint16

Attribute Range: 1-3600

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<cspf>
<config>
   <default-retry-interval>1</default-retry-interval> <!-- operation="delete"-->
</config>
</cspf>
</global>
</ospfv2>
```

Command Syntax

```
ospf cspf default-retry-interval <1-3600>
```

Configure enable better protection

Use this attribute to enable the CSPF (Constrained Shortest Path First) protection type.

This command is supported when following feature are enabled OSPF Constrained Shortest Path First (CSPF)

Attribute Name: enable-better-protection

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<global>
<cspf>
<config>
   </enable-better-protection><!-- operation="delete"-->
</config>
</cspf>
</global>
</ospfv2>
```

Command Syntax

```
ospf cspf enable-better-protection
```

Configure ospf id

Use this attribute to set the OSPF process ID.

Attribute Name: ospf-id

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process> <!-- operation="delete"-->
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
      <vrf-name>WORD</vrf-name>
   </config>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
router ospf (<0-65535>|) (WORD|)
```

Configure router id

Use this attribute to set a router ID for the OSPF process. Configure each router OSPF with an unique router ID.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
   <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
router-id A.B.C.D
```

Configure process router-id

Use this attribute to set a router ID for the OSPF process. Configure each router OSPF with an unique router ID.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
   <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
ospf router-id A.B.C.D
```

Configure flood reduction

Use this attribute to enable flood reduction on all OSPF interfaces.

Attribute Name: flood-reduction

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
   </flood-reduction><!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 ospf flood-reduction
```

Configure rfc1583 compatibility

Use this attribute to restore the method used to calculate summary route costs per RFC 1583.

Attribute Name: rfc1583-compatibility

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
   </rfc1583-compatibility><!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 compatible rfc1583
```

Configure database summary

Use this attribute to enable the database summary list optimization.

Attribute Name: database-summary

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
```

```
    <ospf-id>0</ospf-id>
    <config>
       <ospf-id>0</ospf-id>
    </config>
    </database-summary><!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
enable db-summary-opt
```

Configure bfd enable all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: bfd-enable-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
       <ospf-id>0</ospf-id>
    </config>
    </bfd-enable-all-interfaces><!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
bfd all-interfaces
```

Configure log adjacency changes

Use this attribute for the router to send a SYSLOG message when an OSPF neighbor goes up or down.

Attribute Name: log-adjacency-changes

Attribute Type: enum (brief|detail)

Default Value: brief

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
```

```
        <ospf-id>0</ospf-id>
      </config>
      <log-adjacency-changes>brief</log-adjacency-changes> <!-- operation="delete"-->
  </process>
  </processes>
  </ospfv2>
```

Command Syntax

```
log-adjacency-changes (brief|detail|)
```

Configure shutdown

Use this attribute to shutdown OSPF process.

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
   </shutdown><!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
shutdown
```

Configure area border type

Use this attribute to set an OSPF Area Border Router (ABR) type.

Attribute Name: area-border-type

Attribute Type: enum (standard|cisco|ibm|shortcut)

Default Value: cisco

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
```

```
    <area-border-type>cisco</area-border-type> <!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
ospf abr-type (standard|cisco|ibm|shortcut|)
```

Configure reference bandwidth

Use this attribute to control how OSPF calculates the default metric for the interface.

Attribute Name: reference-bandwidth

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-4294967

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
    <reference-bandwidth>1</reference-bandwidth> <!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
auto-cost reference-bandwidth <1-4294967>
```

Configure max database descriptors

Use this attribute to limit the number of Database Descriptors (DD) that can be processed concurrently.

Attribute Name: max-database-descriptors

Attribute Type: uint16

Default Value: 64

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
```

```
          <ospf-id>0</ospf-id>
       </config>
       <max-database-descriptors>1</max-database-descriptors> <!-- operation="delete"--
>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    max-concurrent-dd <1-65535>
```

Configure p2p rfc incompatible

Use this attribute to enable unicast packet on point-point interface.

Attribute Name: p2p-rfc-incompatible

Attribute Type: empty

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
      </p2p-rfc-incompatible><!-- operation="delete"-->
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    ospf point-point rfc-incompatible
```

Configure context name

Use this attribute to set the SNMP context name for OSPF instance.

Attribute Name: context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
```

```
    <context-name>WORD</context-name> <!-- operation="delete"-->
</process>
</processes>
</ospfv2>
```

Command Syntax

```
snmp context-name WORD
```

Configure passive interface all

Use this attribute to set all interfaces as passive.

Attribute Name: passive-interface-all

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<passive-interfaces>
<config>
      </passive-interface-all><!-- operation="delete"-->
</config>
</passive-interfaces>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
passive-interface
```

Configure passive mode

Use this attribute to define the passive mode.

Attribute Name: passive-mode

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
```

```
<passive-interfaces>
<passive-interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
      <passive-mode>enable</passive-mode> <!-- operation="delete"-->
</passive-interface>
</passive-interfaces>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
passive-interface IFNAME (disable|enable)
```

Configure address

Use this attribute to set interface address as passive.

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: passive-mode

Attribute Type: enum (enable)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<passive-interfaces>
<passive-interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
   <passive-addresses>
   <passive-address> <!-- operation="delete"-->
      <address>A.B.C.D</address>
      <config>
         <address>A.B.C.D</address>
         <passive-mode>enable</passive-mode>
      </config>
   </passive-address>
</passive-addresses>
</passive-interface>
```

```
</passive-interfaces>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
passive-interface IFNAME A.B.C.D (enable)
```

Configure originate

Use this attribute to create a default external route into an OSPF routing domain. The system acts like an Autonomous System Boundary Router (ASBR) when you use the default-information originate command to redistribute routes into an OSPF routing domain. An ASBR does not by default generate a default route into the OSPF routing domain

Attribute Name: originate

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<default-information>
<config>
      </originate><!-- operation="delete"-->
</config>
</default-information>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
default-information originate
```

Configure route map

Use this attribute to set route-map instance.

Attribute Name: route-map

Attribute Type: string

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise-default-route

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 10

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<default-information>
<config>
       </originate><!-- operation="delete"-->
       </always-advertise-default-route><!-- operation="delete"-->
       <metric>0</metric> <!-- operation="delete"-->
       <metric-type>2</metric-type> <!-- operation="delete"-->
       <route-map>WORD</route-map> <!-- operation="delete"-->
</config>
</default-information>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
default-information originate { always| metric <0-16777214>| metric-type (1|2)|
  route-map WORD }
```

Configure mpls

Use this attribute to enable MPLS-based segment routing for OSPF.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: mpls

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
```

```
   </config>
<segment-routing>
<config>
       </mpls><!-- operation="delete"-->
</config>
</segment-routing>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
segment-routing mpls
```

Configure block range size

Use this attribute to set the segment routing block ending range value.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: block-range-size

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<segment-routing>
<global-blocks>
<global-block> <!-- operation="delete"-->
   <block-range-size>16</block-range-size>
   <config>
      <block-range-size>16</block-range-size>
      <block-base-value>16</block-base-value>
   </config>
      <block-base-value>16</block-base-value>
</global-block>
</global-blocks>
</segment-routing>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
ospf segment-routing global block <16-1048575> <16-1048575>
```

Configure disable receive

Use this attribute to enable or disable receiving prefix SID mappings from a mapping server.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: disable-receive

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<segment-routing>
<prefix-sid-map>
<config>
      </disable-receive><!-- operation="delete"-->
</config>
</prefix-sid-map>
</segment-routing>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
segment-routing prefix-sid-map receive disable
```

Configure advertise local

Use this attribute to advertise local mapping server entries to other routers in the segment routing domain.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: advertise-local

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<segment-routing>
```

```
<prefix-sid-map>
<config>
       </advertise-local><!-- operation="delete"-->
</config>
</prefix-sid-map>
</segment-routing>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
segment-routing prefix-sid-map advertise-local
```

Configure disable cspf

Use this attribute to enable the CSPF (Constrained Shortest Path First) feature. The default value for CSPF is enabled.

Attribute Name: disable-cspf

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<capability>
<config>
       </disable-cspf><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
no capability cspf
```

Configure disable traffic engineering

Use this attribute to enable OSPF Traffic Engineering feature.

Attribute Name: disable-traffic-engineering

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
```

```
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<capability>
<config>
      </disable-traffic-engineering><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
no capability traffic-engineering
```

Configure disable graceful restart

Graceful OSPF Restart.

Attribute Name: disable-graceful-restart

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<capability>
<config>
      </disable-graceful-restart><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
no capability restart graceful
```

Configure disable opaque lsa

Use this attribute to enable opaque-LSAs which are Type 9, 10 and 11 LSAs.

Attribute Name: disable-opaque-lsa

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<capability>
<config>
      </disable-opaque-lsa><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
no capability opaque
```

Configure enable vrf lite

Use this attribute to enable VRF-lite feature.

Attribute Name: enable-vrf-lite

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<capability>
<config>
      </enable-vrf-lite><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
capability vrf-lite
```

Configure link local signaling

Use this attribute to enable link-local signaling feature.

Attribute Name: link-local-signaling

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<capability>
<config>
      </link-local-signaling><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 capability lls
```

Configure maximum areas number

Use this attribute to set the maximum number of OSPF areas (excluding Backbone Area).

Attribute Name: maximum-areas-number

Attribute Type: uint32

Attribute Range: 1-4294967294

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<config>
      <maximum-areas-number>1</maximum-areas-number> <!-- operation="delete"-->
</config>
</areas>
</process>
</processes>
```

```
   </ospfv2>
```

Command Syntax

```
    maximum-area <1-4294967294>
```

Configure authentication type

Use this attribute to set the area authentication type.

Attribute Name: authentication-type

Attribute Type: enum (authentication|authentication message-digest)

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
         <authentication-type>authentication</authentication-type> <!--
operation="delete"-->
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    area (A.B.C.D|<0-4294967295>) (authentication|authentication message-digest)
```

Configure default cost

Use this attribute to set the summary-default cost of a NSSA or stub area.

Attribute Name: default-cost

Attribute Type: uint32

Attribute Range: 0-16777215

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
```

```
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
         <default-cost>0</default-cost> <!-- operation="delete"-->
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) default-cost <0-16777215>
```

Configure shortcut

Use this attribute to set the area shortcutting mode.

Attribute Name: shortcut

Attribute Type: enum (default|enable|disable)

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
         <shortcut>default</shortcut> <!-- operation="delete"-->
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) shortcut (default|enable|disable)
```

Configure name

Use this attribute to set the interface to enable OSPF area.

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <interfaces>
   <interface> <!-- operation="delete"-->
      <name>IFNAME</name>
      <config>
         <name>WORD</name>
      </config>
   </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area interface IFNAME
```

Configure cost

Use this attribute to explicitly specify the cost of the link-state metric in a router-LSA.

Attribute Name: cost

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```

```
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <interfaces>
   <interface>
      <name>IFNAME</name>
      <config>
         <name>WORD</name>
      </config>
         <cost>1</cost> <!-- operation="delete"-->
   </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area interface IFNAME cost <1-65535>
```

Configure network type

Use this attribute to set the area interface network type.

Attribute Name: network-type

Attribute Type: enum (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-to-multipoint non-broadcast)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
```

```
    </config>
    <interfaces>
    <interface>
        <name>IFNAME</name>
        <config>
            <name>WORD</name>
        </config>
            <network-type>point-to-point</network-type> <!-- operation="delete"-->
    </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area interface IFNAME network-type (point-to-point|broadcast|non-broadcast|point-
  to-multipoint|point-to-multipoint non-broadcast)
```

Configure passive

Use this attribute to set area interface as passive.

Attribute Name: passive

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
<areas>
<area>
    <area-id>OSPF_AREA_T</area-id>
    <config>
        <area-id>OSPF_AREA_T</area-id>
    </config>
    <interfaces>
    <interface>
        <name>IFNAME</name>
        <config>
            <name>WORD</name>
        </config>
            </passive><!-- operation="delete"-->
    </interface>
</interfaces>
```

```
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area interface IFNAME passive
```

Configure priority

Use this attribute to set the router priority to determine the designated router (DR) for the network.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <interfaces>
   <interface>
      <name>IFNAME</name>
      <config>
         <name>WORD</name>
      </config>
         <priority>0</priority> <!-- operation="delete"-->
   </interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area interface IFNAME priority <0-255>
```

Configure area id

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
            <name>WORD</name>
         </config>
            <authentication-type>simple</authentication-type> <!--
operation="delete"-->
      </interface>
   </interfaces>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    area interface IFNAME authentication (null|message-digest|)
```

Configure enabled

Use this attribute to enable Bidirectional Forwarding Detection (BFD).

This command is supported when following feature are enabled Bidirectional Forwarding Detection (BFD)

Attribute Name: enabled

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
```

```
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <interfaces>
   <interface>
      <name>IFNAME</name>
      <config>
         <name>WORD</name>
      </config>
      <enable-bfd>
      <config>
            <enabled>enable</enabled> <!-- operation="delete"-->
      </config>
   </enable-bfd>
</interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area interface IFNAME bfd (disable|)
```

Configure filter out

Use this attribute to turn on the LSA database-filter for a particular interface. OSPF floods new LSAs over all interfaces in an area, except the interface on which the LSA arrives. This redundancy ensures robust flooding. However, too much redundancy can waste bandwidth and might lead to excessive link and CPU usage in certain topologies, resulting in destabilizing the network. To avoid this, use this attribute to block flooding of LSAs over specified interfaces.

Attribute Name: filter-out

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
```

```
        <ospf-id>0</ospf-id>
    </config>
<areas>
<area>
    <area-id>OSPF_AREA_T</area-id>
    <config>
        <area-id>OSPF_AREA_T</area-id>
    </config>
    <interfaces>
    <interface>
        <name>IFNAME</name>
        <config>
            <name>WORD</name>
        </config>
        <lsa-filter>
        <config>
               </filter-out><!-- operation="delete"-->
        </config>
    </lsa-filter>
</interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area interface IFNAME database-filter all out
```

Configure traffic engineering metric

Use this attribute to set the minimum delay in milliseconds between accepting the same LSA from neighbors.

Attribute Name: traffic-engineering-metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
<areas>
<area>
    <area-id>OSPF_AREA_T</area-id>
    <config>
```

```
          <area-id>OSPF_AREA_T</area-id>
       </config>
       <interfaces>
       <interface>
          <name>IFNAME</name>
          <config>
             <name>WORD</name>
          </config>
          <mpls>
          <config>
                <traffic-engineering-metric>1</traffic-engineering-metric> <!--
operation="delete"-->
          </config>
       </mpls>
   </interface>
   </interfaces>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    area interface IFNAME te-metric <1-65535>
```

Configure ldp igp sync enable

Use this attribute to enable the MPLS LDP IGP SYNC on OSPF.

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
```

```
            <name>WORD</name>
         </config>
         <mpls>
         <igp-ldp-sync>
         <config>
                </ldp-igp-sync-enable><!-- operation="delete"-->
         </config>
      </igp-ldp-sync>
   </mpls>
   </interface>
   </interfaces>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
area interface IFNAME mpls ldp-igp sync ospf
```

Configure holddown timer

Use this attribute to configure the hold-down timer for which OSPF will wait for LDP to converge and advertises Max cost. When the configured time expires, OSPF starts advertising the actual cost in the Router-LSA.

Attribute Name: holddown-timer

Attribute Type: uint32

Default Value: 70000

Attribute Range: 1-2147483

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
```

```
        <config>
           <name>WORD</name>
        </config>
        <mpls>
        <igp-ldp-sync>
        <config>
               </ldp-igp-sync-enable><!-- operation="delete"-->
               <holddown-timer>1</holddown-timer> <!-- operation="delete"-->
        </config>
    </igp-ldp-sync>
</mpls>
</interface>
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area interface IFNAME mpls ldp-igp sync ospf holddown-timer <1-2147483>
```

Configure dead interval

Use this attribute to set the interval during which the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <interfaces>
   <interface>
      <name>IFNAME</name>
      <config>
         <name>WORD</name>
```

```
        </config>
        <timers>
        <config>
               <dead-interval>1</dead-interval> <!-- operation="delete"-->
        </config>
     </timers>
  </interface>
  </interfaces>
  </area>
  </areas>
  </process>
  </processes>
  </ospfv2>
```

Command Syntax

```
 area interface IFNAME dead-interval <1-65535>
```

Configure hello interval

Use this attribute to specify the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
  <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <processes>
  <process>
     <ospf-id>0</ospf-id>
     <config>
        <ospf-id>0</ospf-id>
     </config>
  <areas>
  <area>
     <area-id>OSPF_AREA_T</area-id>
     <config>
        <area-id>OSPF_AREA_T</area-id>
     </config>
     <interfaces>
     <interface>
        <name>IFNAME</name>
        <config>
           <name>WORD</name>
        </config>
        <timers>
        <config>
               <hello-interval>1</hello-interval> <!-- operation="delete"-->
```

```
          </config>
       </timers>
   </interface>
   </interfaces>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    area interface IFNAME hello-interval <1-65535>
```

Configure retransmission interval

Use this attribute to specify the time between link-state advertisement (LSA) retransmissions for adjacencies belonging to the interface.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
            <name>WORD</name>
         </config>
         <timers>
         <config>
                <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
         </config>
      </timers>
   </interface>
```

```
</interfaces>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area interface IFNAME retransmit-interval <1-3600>
```

Configure no summary

Use this attribute to set the OSPF area stub with no-summary, this will prevent an ABR from sending summary link state advertisements into the stub area.

Attribute Name: no-summary

Attribute Type: empty

Attribute Name: is-stub

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <stub>
   <config>
         </is-stub><!-- operation="delete"-->
         </no-summary><!-- operation="delete"-->
   </config>
</stub>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area stub no-summary
```

Configure is stub

Use this attribute to set the OSPF area as stub.

Attribute Name: is-stub

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <stub>
   <config>
          </is-stub><!-- operation="delete"-->
   </config>
</stub>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area stub
```

Configure nssa enable

Use this attribute to enable the OSPF area as NSSA.

This command is supported when following feature are enabled Not-So-Stubby Area (NSSA)

Attribute Name: nssa-enable

Attribute Type: enum (nssa)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
```

```
    </config>
  <areas>
  <area>
    <area-id>OSPF_AREA_T</area-id>
    <config>
      <area-id>OSPF_AREA_T</area-id>
    </config>
    <nssas>
    <nssa> <!-- operation="delete"-->
      <nssa-enable>nssa</nssa-enable>
      <config>
        <nssa-enable>nssa</nssa-enable>
      </config>
    </nssa>
  </nssas>
  </area>
  </areas>
  </process>
  </processes>
  </ospfv2>
```

Command Syntax

```
 area (nssa)
```

Configure stability interval

Use this attribute to set route-map instance.

This command is supported when following feature are enabled Not-So-Stubby Area (NSSA)

Attribute Name: route-map

Attribute Type: string

Attribute Name: no-summary

Attribute Type: empty

Attribute Name: stability-interval

Attribute Type: uint32

Default Value: 40

Attribute Range: 0-2147483647

Attribute Name: translator-role

Attribute Type: enum (never|always|candidate)

Attribute Name: no-redistribution

Attribute Type: empty

Attribute Name: default-information-originate

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <nssas>
   <nssa>
      <nssa-enable>nssa</nssa-enable>
      <config>
         <nssa-enable>nssa</nssa-enable>
         </no-summary>
         <stability-interval>0</stability-interval>
         <translator-role>never</translator-role>
         </no-redistribution>
         </default-information-originate>
         <metric>0</metric>
         <metric-type>2</metric-type>
      </config>
         <route-map>WORD</route-map>
   </nssa>
</nssas>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area (nssa) { no-summary| stability-interval <0-2147483647>| translator-role
  (never|always|candidate)| no-redistribution| default-information-originate|
  metric <0-16777214>| metric-type (1|2)| route-map WORD }
```

Configure filter-in name

Use this attribute to set name of the prefix list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <filter-list>
   <prefix-list>
   <filter-in>
   <config>
         <name>WORD</name> <!-- operation="delete"-->
   </config>
</filter-in>
</prefix-list>
</filter-list>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area filter-list prefix WORD in
```

Configure filter-out name

Use this attribute to set name of the prefix list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <filter-list>
   <prefix-list>
   <filter-out>
   <config>
          <name>WORD</name> <!-- operation="delete"-->
   </config>
</filter-out>
</prefix-list>
</filter-list>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area filter-list prefix WORD out
```

Configure filter-in name

Use this attribute to set name of the access control list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
```

```
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <filter-list>
   <access-control-list>
   <filter-in>
   <config>
         <name>WORD</name> <!-- operation="delete"-->
   </config>
</filter-in>
</access-control-list>
</filter-list>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area filter-list access WORD in
```

Configure filter-out name

Use this attribute to set name of the access control list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <filter-list>
   <access-control-list>
   <filter-out>
   <config>
         <name>WORD</name> <!-- operation="delete"-->
```

```
    </config>
</filter-out>
</access-control-list>
</filter-list>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area filter-list access WORD out
```

Configure ip address

Use this attribute to set the OSPF area ID.

Attribute Name: area-id

Attribute Type: inet:ipv4-address

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
<areas>
<area> <!-- operation="delete"-->
    <area-id>OSPF_AREA_T</area-id>
    <config>
        <area-id>OSPF_AREA_T</area-id>
    </config>
    <hosts>
    <host>
        <ip-address>A.B.C.D</ip-address>
    </host>
</hosts>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
host A.B.C.D area
```

Configure host cost

Use this attribute to set the stub host cost.

Attribute Name: cost

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <hosts>
   <host>
      <ip-address>A.B.C.D</ip-address>
      <config>
         <ip-address>A.B.C.D</ip-address>
      </config>
         <cost>0</cost>
   </host>
</hosts>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
host A.B.C.D area cost <0-65535>
```

Configure instance id

Use this attribute to set the instance ID. Use this command with OSPF multiple-instance support enabled.

Attribute Name: instance-id

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <networks>
   <network>
      <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
      <config>
         <prefix>A.B.C.D/M|A.B.C.D A.B.C.D</prefix>
      </config>
         <instance-id>0</instance-id>
   </network>
</networks>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
network (A.B.C.D/M|A.B.C.D A.B.C.D) area (instance-id <0-255>|)
```

Configure area-ranges address

Use this attribute to summarize routes matching address/mask (border routers only).

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
```

```
    <config>
       <area-id>OSPF_AREA_T</area-id>
    </config>
    <area-ranges>
    <area-range> <!-- operation="delete"-->
       <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
       <config>
          <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
       </config>
    </area-range>
</area-ranges>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area range (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure disable advertise

Use this attribute to disable the advertisement of these routes.

Attribute Name: disable-advertise

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <area-ranges>
   <area-range>
      <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
      <config>
         <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
      </config>
         </disable-advertise><!-- operation="delete"-->
   </area-range>
</area-ranges>
```

```
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area range (A.B.C.D/M|A.B.C.D A.B.C.D) not-advertise
```

Configure remote router id

Use this attribute to set the interface IP address of the neighbor.

Attribute Name: remote-router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <virtual-links>
   <virtual-link> <!-- operation="delete"-->
      <remote-router-id>A.B.C.D</remote-router-id>
      <config>
         <remote-router-id>A.B.C.D</remote-router-id>
      </config>
   </virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area virtual-link A.B.C.D
```

Configure fall over

Fall-over detection with Bidirectional Forwarding Detection (BFD).

Attribute Name: fall-over

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <virtual-links>
   <virtual-link>
      <remote-router-id>A.B.C.D</remote-router-id>
      <config>
         <remote-router-id>A.B.C.D</remote-router-id>
      </config>
      <bfd>
      <config>
             </fall-over><!-- operation="delete"-->
      </config>
   </bfd>
</virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area virtual-link A.B.C.D fall-over bfd
```

Configure key

Use this attribute to set the authentication password (key).

Attribute Name: key

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
```

```
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
<areas>
<area>
    <area-id>OSPF_AREA_T</area-id>
    <config>
        <area-id>OSPF_AREA_T</area-id>
    </config>
    <virtual-links>
    <virtual-link>
        <remote-router-id>A.B.C.D</remote-router-id>
        <config>
            <remote-router-id>A.B.C.D</remote-router-id>
        </config>
        <authentication>
        <config>
               <key>WORD</key> <!-- operation="delete"-->
        </config>
    </authentication>
</virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area virtual-link A.B.C.D authentication-key WORD
```

Configure authentication authentication-type

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
<areas>
<area>
    <area-id>OSPF_AREA_T</area-id>
```

```
       <config>
          <area-id>OSPF_AREA_T</area-id>
       </config>
       <virtual-links>
       <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
             <remote-router-id>A.B.C.D</remote-router-id>
          </config>
          <authentication>
          <config>
                <authentication-type>simple</authentication-type> <!--
operation="delete"-->
          </config>
       </authentication>
   </virtual-link>
   </virtual-links>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    area virtual-link A.B.C.D authentication (null|message-digest|)
```

Configure message digest id

Use this attribute to set the authentication message digest key ID.

Attribute Name: message-digest-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: message-digest-encryption-type

Attribute Type: enum (md5)

Attribute Name: message-digest-key

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
```

```
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
      <virtual-links>
      <virtual-link>
         <remote-router-id>A.B.C.D</remote-router-id>
         <config>
            <remote-router-id>A.B.C.D</remote-router-id>
         </config>
         <authentication>
         <message-digests>
         <message-digest> <!-- operation="delete"-->
            <message-digest-id>1</message-digest-id>
            <config>
               <message-digest-id>1</message-digest-id>
               <message-digest-encryption-type>md5</message-digest-encryption-type>
               <message-digest-key>WORD</message-digest-key>
            </config>
         </message-digest>
      </message-digests>
   </authentication>
   </virtual-link>
   </virtual-links>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
area virtual-link A.B.C.D message-digest-key <1-255> (md5) WORD
```

Configure transmit delay

Dead router detection time. Interval during which no packets are received and after which the router acknowledges a neighboring router as off-line.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: transmit-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-3600

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <areas>
   <area>
      <area-id>OSPF_AREA_T</area-id>
      <config>
         <area-id>OSPF_AREA_T</area-id>
      </config>
      <virtual-links>
      <virtual-link>
         <remote-router-id>A.B.C.D</remote-router-id>
         <config>
            <remote-router-id>A.B.C.D</remote-router-id>
         </config>
         <timers>
         <config>
                <hello-interval>1</hello-interval> <!-- operation="delete"-->
                <transmit-delay>1</transmit-delay> <!-- operation="delete"-->
                <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
                <dead-interval>1</dead-interval> <!-- operation="delete"-->
         </config>
      </timers>
   </virtual-link>
   </virtual-links>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    area virtual-link A.B.C.D { dead-interval <1-65535>| hello-interval <1-65535>|
      transmit-delay <1-3600>| retransmit-interval <1-3600> }
```

Configure destination id

Use this attribute to set the destination IP address of sham link.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF),Multi-Protocol Label Switching (MPLS)

Attribute Name: destination-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <sham-links>
   <sham-link> <!-- operation="delete"-->
      <destination-id>A.B.C.D</destination-id>
      <config>
         <destination-id>A.B.C.D</destination-id>
         <source-id>A.B.C.D</source-id>
      </config>
         <source-id>A.B.C.D</source-id>
   </sham-link>
</sham-links>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 area sham-link A.B.C.D A.B.C.D
```

Configure source id

Use this attribute to set the sham link cost.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF),Multi-Protocol Label Switching (MPLS)

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<areas>
<area>
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
   <sham-links>
   <sham-link>
      <destination-id>A.B.C.D</destination-id>
      <config>
         <destination-id>A.B.C.D</destination-id>
         <source-id>A.B.C.D</source-id>
      </config>
         <source-id>A.B.C.D</source-id>
         <cost>1</cost> <!-- operation="delete"-->
   </sham-link>
</sham-links>
</area>
</areas>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
area sham-link A.B.C.D A.B.C.D cost <1-65535>
```

Configure limit type

Use this attribute to set the limit type. Soft limit: Warning message appears if the number of LSAs exceeds the specified value; Hard limit: Shutdown occurs if the number of LSAs exceeds the specified value. Default value is 2.

Attribute Name: limit-type

Attribute Type: enum (soft|hard)

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<lsdb>
<overflow>
<normal-lsa>
<config>
       <max-limit>0</max-limit>
       <limit-type>hard</limit-type>
</config>
</normal-lsa>
</overflow>
</lsdb>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 overflow database <0-4294967294> ((soft|hard|)|)
```

Configure exit interval

Use this attrobute to set the number of seconds the router waits before trying to exit the database overflow state. If this parameter is 0, the router exits the overflow state only after an explicit administrator command. Default value is 0.

This command is supported when following feature are enabled OSPF DataBase (DB) overflow

Attribute Name: exit-interval

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: max-limit

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<lsdb>
<overflow>
```

```
<external-lsa>
<config>
       <max-limit>0</max-limit>
       <exit-interval>0</exit-interval>
</config>
</external-lsa>
</overflow>
</lsdb>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
overflow database external <0-2147483647> <0-65535>
```

Configure keep all paths

Use this attribute to enable fast rerouting on all OSPF interfaces.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: keep-all-paths

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<lfa>
<fast-reroute>
<config>
       </keep-all-paths><!-- operation="delete"-->
</config>
</fast-reroute>
</lfa>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
fast-reroute keep-all-paths
```

Configure remote lfa areas

Use this attribute to set remote-lfa for OSPF area.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: remote-lfa-areas

Attribute Type: union

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<lfa>
<fast-reroute>
<config>
      <remote-lfa-areas>OSPF_AREA_T</remote-lfa-areas>
</config>
</fast-reroute>
</lfa>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
fast-reroute per-prefix remote-lfa area (A.B.C.D|<0-4294967295>) tunnel mpls-ldp
```

Configure fast-reroute route-map

Use this attribute to set route-map for FRR.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<lfa>
<fast-reroute>
<config>
      <route-map>WORD</route-map> <!-- operation="delete"-->
</config>
</fast-reroute>
</lfa>
</process>
```

```
</processes>
</ospfv2>
```

Command Syntax

```
fast-reroute per-prefix route-map WORD
```

Configure idx

Use this attribute to set the tie breaking index. A lower value has higher preference.

This command is supported when following feature are enabled OSPF Loop Free Alternate (LFA)

Attribute Name: idx

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<lfa>
<fast-reroute>
<tie-breaks>
<tie-break>
   <type>primary-path</type>
   <config>
      <type>primary-path</type>
   </config>
      <idx>1</idx> <!-- operation="delete"-->
</tie-break>
</tie-breaks>
</fast-reroute>
</lfa>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
fast-reroute tie-break (primary-path|node-protecting|interface-disjoint|broadcast-
  interface-disjoint|downstream-path|secondary-path) index <1-255>
```

Configure topologies-independent-lfa area-id

Use this attribute to set the OSPF area ID.

This command is supported when following feature are enabled OSPF topology independent Loop Free Alternate (LFA),OSPF Loop Free Alternate (LFA)

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<lfa>
<fast-reroute>
<topologies-independent-lfa>
<topology-independent-lfa> <!-- operation="delete"-->
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
   </config>
</topology-independent-lfa>
</topologies-independent-lfa>
</fast-reroute>
</lfa>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 fast-reroute per-prefix ti-lfa area (A.B.C.D|<0-4294967295>)
```

Configure default distance

Use this attribute to specifies a default administrative distance used when no other specification exists for a routing information source.

Attribute Name: default-distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<administrative-distance>
<config>
```

```
        <default-distance>1</default-distance> <!-- operation="delete"-->
   </config>
   </administrative-distance>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
distance <1-255>
```

Configure intra area distance

Use this attribute to set the distance for all routes within an area.

Attribute Name: intra-area-distance

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: inter-area-distance

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: external-routes-distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <administrative-distance>
   <ospf>
   <config>
         <inter-area-distance>1</inter-area-distance> <!-- operation="delete"-->
         <external-routes-distance>1</external-routes-distance> <!--
operation="delete"-->
         <intra-area-distance>1</intra-area-distance> <!-- operation="delete"-->
   </config>
   </ospf>
   </administrative-distance>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
distance ospf { intra-area <1-255>| inter-area <1-255>| external <1-255> }
```

Configure access control list

Use this attribute to specifies administrative distance network ACL.

Attribute Name: access-control-list

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<administrative-distance>
<networks>
<network>
   <prefix>A.B.C.D/M</prefix>
   <config>
      <prefix>A.B.C.D/M</prefix>
      <distance>1</distance>
   </config>
      <access-control-list>WORD</access-control-list>
</network>
</networks>
</administrative-distance>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 distance <1-255> A.B.C.D/M (WORD|)
```

Configure summary-addresses address

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
```

```
    <config>
       <ospf-id>0</ospf-id>
    </config>
<summary-addresses>
<summary-address> <!-- operation="delete"-->
    <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
    <config>
       <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
    </config>
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
summary-address (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure not advertise

Use this attribute to suppress routes that match the address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
       <ospf-id>0</ospf-id>
    </config>
<summary-addresses>
<summary-address>
    <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
    <config>
       <address>A.B.C.D/M</address>
    </config>
       </not-advertise><!-- operation="delete"-->
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
summary-address (A.B.C.D/M|A.B.C.D A.B.C.D) not-advertise
```

Configure tag

Use this attribute to set the tag value to use as a match value for controlling redistribution via route maps.

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<summary-addresses>
<summary-address>
   <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
   <config>
      <address>A.B.C.D/M</address>
   </config>
      <tag>0</tag> <!-- operation="delete"-->
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 summary-address (A.B.C.D/M|A.B.C.D A.B.C.D) tag <0-4294967295>
```

Configure filter-in access-control-list

Use this attribute to set the access control list name in distribution list.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
```

```
   <distribute-list>
   <filter-in>
   <config>
          <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
   </config>
   </filter-in>
   </distribute-list>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    distribute-list WORD in
```

Configure access control list isis

Use this attribute to set the access control list name for ISIS protocol.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-isis

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <distribute-list>
   <filter-out>
   <config>
          <access-control-list-isis>WORD</access-control-list-isis> <!--
operation="delete"-->
   </config>
   </filter-out>
   </distribute-list>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    distribute-list WORD out isis
```

Configure access control list bgp

Use this attribute to set the access control list name for BGP protocol.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-bgp

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <distribute-list>
   <filter-out>
   <config>
         <access-control-list-bgp>WORD</access-control-list-bgp> <!--
operation="delete"-->
   </config>
   </filter-out>
   </distribute-list>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    distribute-list WORD out bgp
```

Configure access control list rip

Use this attribute to set the access control list name for RIP protocol.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-rip

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <distribute-list>
   <filter-out>
   <config>
         <access-control-list-rip>WORD</access-control-list-rip> <!--
operation="delete"-->
   </config>
   </filter-out>
   </distribute-list>
```

```
</process>
</processes>
</ospfv2>
```

Command Syntax

```
distribute-list WORD out rip
```

Configure access control list static

Use this attribute to set the access control list name for static routes.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-static

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<distribute-list>
<filter-out>
<config>
      <access-control-list-static>WORD</access-control-list-static> <!--
operation="delete"-->
</config>
</filter-out>
</distribute-list>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
distribute-list WORD out static
```

Configure access control list connected

Use this attribute to set the access control list name for connected networks.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-connected

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
```

```
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <distribute-list>
   <filter-out>
   <config>
         <access-control-list-connected>WORD</access-control-list-connected> <!--
operation="delete"-->
   </config>
   </filter-out>
   </distribute-list>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    distribute-list WORD out connected
```

Configure access control list kernel

Use this attribute to set the access control list name for KERNEL routes.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: access-control-list-kernel

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <distribute-list>
   <filter-out>
   <config>
         <access-control-list-kernel>WORD</access-control-list-kernel> <!--
operation="delete">
   </config>
   </filter-out>
   </distribute-list>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    distribute-list WORD out kernel
```

Configure ospf process id

Use this attribute to set the OSPF ID in distribution list filter out.

This command is supported when following feature are enabled Access-Control List (ACL)

Attribute Name: ospf-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: access-control-list-out-ospf

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <distribute-list>
   <filter-out>
   <ospfv2-processes>
   <ospfv2-process>
      <ospf-process-id>0</ospf-process-id>
      <config>
         <ospf-process-id>0</ospf-process-id>
         <access-control-list-out-ospf>WORD</access-control-list-out-ospf> <!--
operation="delete"-->
      </config>
   </ospfv2-process>
   </ospfv2-processes>
   </filter-out>
   </distribute-list>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    distribute-list WORD out ospf (<0-65535>|)
```

Configure primary domain id address

Use this attribute to set the domain ID in IPv4 address format.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: primary-domain-id-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <domain-id>
   <primary-domain>
   <config>
         <primary-domain-id-address>A.B.C.D</primary-domain-id-address> <!--
operation="delete"-->
   </config>
   </primary-domain>
   </domain-id>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    domain-id A.B.C.D
```

Configure primary domain id hex

Use this attribute to set domain ID in hexadecimal.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: primary-domain-id-hex

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <domain-id>
   <primary-domain>
   <hexes>
   <hex> <!-- operation="delete"-->
      <primary-domain-id-hex>HEX_DATA</primary-domain-id-hex>
      <config>
         <primary-domain-id-hex>OSPF_DOMAIN_ID_HEX_STRING_T</primary-domain-id-hex>
         <primary-hex-type>type-as</primary-hex-type>
      </config>
         <primary-hex-type>type-as</primary-hex-type>
   </hex>
```

```
</hexes>
</primary-domain>
</domain-id>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
domain-id type (type-as|type-as4|type-back-comp|type-ip) value HEX_DATA
```

Configure secondary domain id address

Use this attribute to set the secondary domain ID in IPv4 address format.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: secondary-domain-id-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<domain-id>
<secondary-domain>
<addresses>
<address> <!-- operation="delete"-->
   <secondary-domain-id-address>A.B.C.D</secondary-domain-id-address>
   <config>
      <secondary-domain-id-address>A.B.C.D</secondary-domain-id-address>
   </config>
</address>
</addresses>
</secondary-domain>
</domain-id>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
domain-id A.B.C.D secondary
```

Configure secondary domain id hex

Use this attribute to set secondary domain ID in hexadecimal.

This command is supported when following feature are enabled OSPF Virtual Routing and Forwarding (VRF)

Attribute Name: secondary-domain-id-hex

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <domain-id>
   <secondary-domain>
   <hexes>
   <hex> <!-- operation="delete"-->
      <secondary-domain-id-hex>HEX_DATA</secondary-domain-id-hex>
      <config>
         <secondary-domain-id-hex>OSPF_DOMAIN_ID_HEX_STRING_T</secondary-domain-id-
hex>
         <secondary-hex-type>type-as</secondary-hex-type>
      </config>
         <secondary-hex-type>type-as</secondary-hex-type>
   </hex>
   </hexes>
   </secondary-domain>
   </domain-id>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
    domain-id type (type-as|type-as4|type-back-comp|type-ip) value HEX_DATA secondary
```

Configure bgp-link-state enabled

Use this attribute to distribute linkstate and TE Database to BGP.

This command is supported when following feature are enabled Border Gateway Protocol (BGP) Link State

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
```

```
<distribute>
<bgp-link-state>
<config>
       </enabled><!-- operation="delete"-->
</config>
</bgp-link-state>
</distribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
distribute bgp-ls
```

Configure throttle timer

Use this attribute to set interval between processing LS DB.

This command is supported when following feature are enabled Border Gateway Protocol (BGP) Link State

Attribute Name: throttle-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 5-20

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<distribute>
<bgp-link-state>
<config>
       </enabled><!-- operation="delete"-->
       <throttle-timer>5</throttle-timer> <!-- operation="delete"-->
</config>
</bgp-link-state>
</distribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
distribute bgp-ls throttle <5-20>
```

Configure neighbors address

Use this attribute to set the interface IP address of the neighbor.

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<neighbors>
<neighbor> <!-- operation="delete"-->
   <address>A.B.C.D</address>
   <config>
      <address>A.B.C.D</address>
   </config>
</neighbor>
</neighbors>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
neighbor A.B.C.D
```

Configure poll interval

Use this attribute to set the router cost for point-to-multipoint neighbor.

Attribute Name: cost

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-255

Attribute Name: poll-interval

Attribute Type: uint32

Default Value: 120

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<neighbors>
<neighbor>
   <address>A.B.C.D</address>
   <config>
      <address>A.B.C.D</address>
      <priority>0</priority> <!-- operation="delete"-->
      <poll-interval>1</poll-interval> <!-- operation="delete"-->
   </config>
      <cost>1</cost> <!-- operation="delete"-->
</neighbor>
</neighbors>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 neighbor A.B.C.D { cost <1-65535>| priority <0-255>| poll-interval <1-2147483647> }
```

Configure termination hold interval

Use this attribute to set the LFA termination hold on interval. It represents the delay of primary route installation (to avoid micro loop) after a failover.

Attribute Name: termination-hold-interval

Attribute Type: uint32

Default Value: 6000

Attribute Range: 100-100000

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<timers>
<lfa>
<config>
      <termination-hold-interval>100</termination-hold-interval> <!--
operation="delete"-->
```

```
</config>
</lfa>
</timers>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
fast-reroute terminate-hold-on interval <100-100000>
```

Configure min arrival interval

Use this attribute to set the minimum interval to accept the same link-state advertisement (LSA) from OSPF neighbors.

Attribute Name: min-arrival-interval

Attribute Type: uint32

Default Value: 1000

Attribute Range: 0-600000

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<timers>
<lsa>
<config>
      <min-arrival-interval>0</min-arrival-interval> <!-- operation="delete"-->
</config>
</lsa>
</timers>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
timers lsa arrival <0-600000>
```

Configure max delay

Use this attribute to set the maximum wait time in milliseconds between generation of the same LSA.

Attribute Name: max-delay

Attribute Type: uint32

Attribute Range: 1-600000

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<timers>
<lsa>
<delays>
<delay> <!-- operation="delete"-->
   <max-delay>1</max-delay>
   <config>
      <max-delay>1</max-delay>
      <min-delay>1</min-delay>
      <start-delay>0</start-delay>
   </config>
      <min-delay>1</min-delay>
      <start-delay>0</start-delay>
</delay>
</delays>
</lsa>
</timers>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
timers throttle lsa all <0-600000> <1-600000> <1-600000>
```

Configure min delay

Use this attribute to set the maximum delay between receiving a change to SPF calculation.

Attribute Name: max-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Attribute Name: min-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
```

```
        <ospf-id>0</ospf-id>
    </config>
<timers>
<spf>
<delay>
<config>
        <min-delay>0</min-delay>
        <max-delay>0</max-delay>
</config>
</delay>
</spf>
</timers>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
timers spf exp <0-2147483647> <0-2147483647>
```

Configure default metric

Use this attribute to set a default metric for OSPF. A default metric facilitates redistributing routes with incompatible metrics. If the metrics do not convert, the default metric provides an alternative. Use this attribute to use the same metric value for all redistributed routes. Use this attribute in conjunction with the redistribute command.

Attribute Name: default-metric

Attribute Type: uint32

Default Value: 2

Attribute Range: 1-16777214

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
    <ospf-id>0</ospf-id>
    <config>
        <ospf-id>0</ospf-id>
    </config>
<redistribute>
<config>
        <default-metric>1</default-metric> <!-- operation="delete"-->
</config>
</redistribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
default-metric <1-16777214>
```

Configure protocol

This attribute redistributes routes from a routing protocol, static route, or kernel route into an OSPF routing table.

Attribute Name: protocol

Attribute Type: enum (connected|static|rip|ospf|bgp|isis)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<redistribute>
<routing-protocols>
<routing-protocol> <!-- operation="delete"-->
   <protocol>connected</protocol>
   <config>
      <protocol>connected</protocol>
   </config>
</routing-protocol>
</routing-protocols>
</redistribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|bgp|isis)
```

Configure metric

Use this attribute to set metric value.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Attribute Name: route-map

Attribute Type: string

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<redistribute>
<routing-protocols>
<routing-protocol>
   <protocol>connected</protocol>
   <config>
      <protocol>connected</protocol>
      <metric-type>1</metric-type> <!-- operation="delete"-->
      <route-map>WORD</route-map> <!-- operation="delete"-->
      <tag>0</tag> <!-- operation="delete"-->
   </config>
      <metric>0</metric> <!-- operation="delete"-->
</routing-protocol>
</routing-protocols>
</redistribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|bgp|isis) { metric <0-16777214>| metric-
  type (1|2)| route-map WORD| tag <0-4294967295> }
```

Configure ospf-processes ospf-process-id

This attribute redistributes routes from an instance of OSPF into another OSPF routing table.

Attribute Name: ospf-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<redistribute>
<ospf-processes>
<ospf-process> <!-- operation="delete"-->
   <ospf-process-id>0</ospf-process-id>
```

```
      <config>
         <ospf-process-id>0</ospf-process-id>
      </config>
   </ospf-process>
   </ospf-processes>
   </redistribute>
   </process>
   </processes>
   </ospfv2>
```

Command Syntax

```
 redistribute ospf <0-65535>
```

Configure metric type

Use this attribute to set metric value.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Attribute Name: route-map

Attribute Type: string

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <processes>
   <process>
      <ospf-id>0</ospf-id>
      <config>
         <ospf-id>0</ospf-id>
      </config>
   <redistribute>
   <ospf-processes>
   <ospf-process>
      <ospf-process-id>0</ospf-process-id>
      <config>
         <ospf-process-id>0</ospf-process-id>
         <metric-type>1</metric-type> <!-- operation="delete"-->
         <route-map>WORD</route-map> <!-- operation="delete"-->
         <tag>0</tag> <!-- operation="delete"-->
      </config>
         <metric>0</metric> <!-- operation="delete"-->
```

```
</ospf-process>
</ospf-processes>
</redistribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
redistribute ospf <0-65535> { metric <0-16777214>| metric-type (1|2)| route-map
  WORD| tag <0-4294967295> }
```

Configure isis process id

This attribute redistributes routes from an instance of IS-IS into an OSPF routing table.

Attribute Name: isis-process-id

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<redistribute>
<isis-processes>
<isis-process> <!-- operation="delete"-->
   <isis-process-id>WORD</isis-process-id>
   <config>
      <isis-process-id>WORD</isis-process-id>
   </config>
</isis-process>
</isis-processes>
</redistribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
redistribute isis WORD
```

Configure isis-process metric

Use this attribute to set metric value.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Attribute Name: route-map

Attribute Type: string

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<redistribute>
<isis-processes>
<isis-process>
   <isis-process-id>WORD</isis-process-id>
   <config>
      <isis-process-id>WORD</isis-process-id>
      <metric-type>1</metric-type> <!-- operation="delete"-->
      <route-map>WORD</route-map> <!-- operation="delete"-->
      <tag>0</tag> <!-- operation="delete"-->
   </config>
      <metric>0</metric> <!-- operation="delete"-->
</isis-process>
</isis-processes>
</redistribute>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
redistribute isis WORD { metric <0-16777214>| metric-type (1|2)| route-map WORD|
  tag <0-4294967295> }
```

Configure include stub

Use this attribute to set the metric of a stub link in the router LSA to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: include-stub

Attribute Type: empty

Attribute Name: enable-max-router-lsa

Attribute Type: empty

Attribute Name: max-external-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: max-summary-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<max-metric>
<config>
       </enable-max-router-lsa>
       <max-external-lsa>1</max-external-lsa>
       <max-summary-lsa>1</max-summary-lsa>
       </include-stub>
</config>
</max-metric>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
max-metric router-lsa { external-lsa (<1-16777215>|)| summary-lsa (<1-16777215>|)|
  include-stub }
```

Configure enable max router lsa

Use this attribute to set the metric in the router LSA to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: enable-max-router-lsa

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<max-metric>
```

```
<config>
       </enable-max-router-lsa>
</config>
</max-metric>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
 max-metric router-lsa
```

Configure on startup include stub

Use this attribute to set the metric of a stub link in the router LSA to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: on-startup-include-stub

Attribute Type: empty

Attribute Name: max-on-startup

Attribute Type: uint32

Attribute Range: 5-86400

Attribute Name: max-on-startup-external-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: max-on-startup-summary-lsa

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
       <ospf-id>0</ospf-id>
   </config>
<max-metric-on-startup>
<config>
       <max-on-startup>5</max-on-startup>
       <max-on-startup-external-lsa>1</max-on-startup-external-lsa>
       <max-on-startup-summary-lsa>1</max-on-startup-summary-lsa>
       </on-startup-include-stub>
</config>
</max-metric-on-startup>
</process>
</processes>
```

```
</ospfv2>
```

Command Syntax

```
max-metric router-lsa on-startup <5-86400> { external-lsa (<1-16777215>|)| summary-
  lsa (<1-16777215>|)| include-stub }
```

Configure max on startup

Use this attribute to set the metric for router LSA on-startup for the transit link to the default max metric.

This command is supported when following feature are enabled Generate lsa with max-metric

Attribute Name: max-on-startup

Attribute Type: uint32

Attribute Range: 5-86400

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
   <config>
      <ospf-id>0</ospf-id>
   </config>
<max-metric-on-startup>
<config>
      <max-on-startup>5</max-on-startup>
</config>
</max-metric-on-startup>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
max-metric router-lsa on-startup <5-86400>
```

Configure entropy capability

Use this attribute to enable segment routing entropy label.

This command is supported when following feature are enabled Multi-Protocol Label Switching (MPLS) Segment Routing (SR)

Attribute Name: entropy-capability

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<processes>
<process>
   <ospf-id>0</ospf-id>
```

```
    <config>
       <ospf-id>0</ospf-id>
    </config>
<capability-entropy>
<config>
       </entropy-capability><!-- operation="delete"-->
</config>
</capability-entropy>
</process>
</processes>
</ospfv2>
```

Command Syntax

```
segment-routing entropy-label
```

Configure teName

Use this attribute to set the OSPF TE metric.

This command is supported when following feature are enabled OSPF Traffic Engineering (TE),Generalized Multi-Protocol Label Switching (GMPLS)

Attribute Name: metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<traffic-engineering-links>
<traffic-engineering-link>
    <teName>WORD</teName>
    <config>
       <teName>WORD</teName>
    </config>
    <metric>1</metric> <!-- operation="delete"-->
</traffic-engineering-link>
</traffic-engineering-links>
</ospfv2>
```

Command Syntax

```
te-metric <1-65535>
```

Configure link local exchange

Use this attribute to enable OSPF TE link local exchange.

This command is supported when following feature are enabled OSPF Traffic Engineering (TE),Generalized Multi-Protocol Label Switching (GMPLS)

Attribute Name: link-local-exchange

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<traffic-engineering-links>
<traffic-engineering-link>
   <teName>WORD</teName>
   <config>
      <teName>WORD</teName>
   </config>
   </link-local-exchange><!-- operation="delete"-->
</traffic-engineering-link>
</traffic-engineering-links>
</ospfv2>
```

Command Syntax

```
 enable-te-link-local
```

Configure ospfv2-processes area-id

Use this attribute to set OSPF area ID in which te-flooding is enabled.

This command is supported when following feature are enabled OSPF Traffic Engineering (TE),Generalized Multi-Protocol Label Switching (GMPLS)

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<traffic-engineering-links>
<traffic-engineering-link>
   <teName>WORD</teName>
   <config>
      <teName>WORD</teName>
   </config>
<flooding>
<ospfv2-processes>
<ospfv2-process> <!-- operation="delete"-->
   <area-id>OSPF_AREA_T</area-id>
   <config>
      <area-id>OSPF_AREA_T</area-id>
      <ospf-process-id>0</ospf-process-id>
   </config>
      <ospf-process-id>0</ospf-process-id>
</ospfv2-process>
</ospfv2-processes>
</flooding>
</traffic-engineering-link>
</traffic-engineering-links>
</ospfv2>
```

Command Syntax

```
te-flooding ospf <0-65535> area (A.B.C.D|<0-4294967295>)
```

Configure ospfv2-processes ospf-process-id

Use this attribute to set the OSPF process ID in which to enable multi-area adjacency.

This command is supported when following feature are enabled HAVE_OSPF_MULTI_AREA

Attribute Name: ospf-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<multi-area-interfaces>
<multi-area-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<ospfv2-processes>
<ospfv2-process> <!-- operation="delete"-->
   <ospf-process-id>0</ospf-process-id>
   <config>
      <ospf-process-id>0</ospf-process-id>
   </config>
</ospfv2-process>
</ospfv2-processes>
</multi-area-interface>
</multi-area-interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf <0-65535>
```

Configure multi-areas area-id

Use this attribute to set the OSPF area ID in which to enable multi-area adjacency.

This command is supported when following feature are enabled HAVE_OSPF_MULTI_AREA

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<multi-area-interfaces>
<multi-area-interface>
   <name>WORD</name>
```

```
    <config>
       <name>WORD</name>
    </config>
<ospfv2-processes>
<ospfv2-process>
    <ospf-process-id>0</ospf-process-id>
    <config>
       <ospf-process-id>0</ospf-process-id>
    </config>
    <multi-areas>
    <multi-area> <!-- operation="delete"-->
       <area-id>OSPF_AREA_T</area-id>
       <config>
          <area-id>OSPF_AREA_T</area-id>
       </config>
    </multi-area>
</multi-areas>
</ospfv2-process>
</ospfv2-processes>
</multi-area-interface>
</multi-area-interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf <0-65535> multi-area (A.B.C.D|<0-4294967295>)
```

Configure neighbor

Use this attribute to set the OSPF area ID in which to enable multi-area adjacency.

This command is supported when following feature are enabled HAVE_OSPF_MULTI_AREA

Attribute Name: area-id

Attribute Type: union

Attribute Name: neighbor

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<multi-area-interfaces>
<multi-area-interface>
    <name>WORD</name>
    <config>
       <name>WORD</name>
    </config>
<ospfv2-processes>
<ospfv2-process>
    <ospf-process-id>0</ospf-process-id>
    <config>
       <ospf-process-id>0</ospf-process-id>
```

```
      </config>
      <multi-areas-neighbors>
      <multi-area-neighbor> <!-- operation="delete"-->
         <area-id>OSPF_AREA_T</area-id>
         <config>
            <area-id>OSPF_AREA_T</area-id>
            <neighbor>A.B.C.D</neighbor>
         </config>
      </multi-area-neighbor>
   </multi-areas-neighbors>
   </ospfv2-process>
   </ospfv2-processes>
   </multi-area-interface>
   </multi-area-interfaces>
   </ospfv2>
```

Command Syntax

```
ip ospf <0-65535> multi-area (A.B.C.D|<0-4294967295>) neighbor A.B.C.D
```

Configure rate limit

Use this attribute to enable OSPF Database Timers Rate Limiting Values for LSA Throttling debug.

Attribute Name: rate-limit

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty

Attribute Name: segment-routing

Attribute Type: empty

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Attribute Name: cspf-events

Attribute Type: empty

Attribute Name: cspf-hexdump

Attribute Type: empty

Attribute Name: retransmission

Attribute Type: empty

Attribute Name: distribute

Attribute Type: empty

Attribute Name: topology-independent-lfa

Attribute Type: empty

Attribute Name: lfa

Attribute Type: empty

Attribute Name: policy

Attribute Type: empty

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </bfd><!-- operation="delete"-->
   </segment-routing><!-- operation="delete"-->
   <route>spf</route> <!-- operation="delete"-->
   <rib>interface</rib> <!-- operation="delete"-->
   <nsm>interface</nsm> <!-- operation="delete"-->
   <nfsm>status</nfsm> <!-- operation="delete"-->
   <lsa>generate</lsa> <!-- operation="delete"-->
```

```
      <ifsm>status</ifsm> <!-- operation="delete"-->
      <events>abr</events> <!-- operation="delete"-->
      </cspf-events><!-- operation="delete"-->
      </cspf-hexdump><!-- operation="delete"-->
      </retransmission><!-- operation="delete"-->
      </distribute><!-- operation="delete"-->
      </topology-independent-lfa><!-- operation="delete"-->
      </lfa><!-- operation="delete"-->
      </policy><!-- operation="delete"-->
      <redistribute>detail</redistribute> <!-- operation="delete"-->
      <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
      <packet-hello>send</packet-hello> <!-- operation="delete"-->
      <packet-dd>send</packet-dd> <!-- operation="delete"-->
      <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
      <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
      <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
      </rate-limit><!-- operation="delete"-->
   </config>
   </debug>
   </ospfv2>
```

Command Syntax

```
debug ospf
```

Configure bfd

Use this attribute to enable OSPF Database Timers Rate Limiting Values for LSA Throttling debug.

Attribute Name: rate-limit

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty

Attribute Name: segment-routing

Attribute Type: empty

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Attribute Name: cspf-events

Attribute Type: empty

Attribute Name: cspf-hexdump

Attribute Type: empty

Attribute Name: retransmission

Attribute Type: empty

Attribute Name: distribute

Attribute Type: empty

Attribute Name: topology-independent-lfa

Attribute Type: empty

Attribute Name: lfa

Attribute Type: empty

Attribute Name: policy

Attribute Type: empty

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </bfd><!-- operation="delete"-->
```

```
    </segment-routing><!-- operation="delete"-->
    <route>spf</route> <!-- operation="delete"-->
    <rib>interface</rib> <!-- operation="delete"-->
    <nsm>interface</nsm> <!-- operation="delete"-->
    <nfsm>status</nfsm> <!-- operation="delete"-->
    <lsa>generate</lsa> <!-- operation="delete"-->
    <ifsm>status</ifsm> <!-- operation="delete"-->
    <events>abr</events> <!-- operation="delete"-->
    </cspf-events><!-- operation="delete"-->
    </cspf-hexdump><!-- operation="delete"-->
    </retransmission><!-- operation="delete"-->
    </distribute><!-- operation="delete"-->
    </topology-independent-lfa><!-- operation="delete"-->
    </lfa><!-- operation="delete"-->
    </policy><!-- operation="delete"-->
    <redistribute>detail</redistribute> <!-- operation="delete"-->
    <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
    <packet-hello>send</packet-hello> <!-- operation="delete"-->
    <packet-dd>send</packet-dd> <!-- operation="delete"-->
    <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
    <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
    <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
    </rate-limit><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf all
```

Configure retransmission

Use this attribute to enable OSPF Debug retransmission information debug.

Attribute Name: retransmission

Attribute Type: uint8

Attribute Name: distribute

Attribute Type: empty

Attribute Name: topology-independent-lfa

Attribute Type: empty

Attribute Name: lfa

Attribute Type: empty

Attribute Name: policy

Attribute Type: empty

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </distribute><!-- operation="delete"-->
   </topology-independent-lfa><!-- operation="delete"-->
   </lfa><!-- operation="delete"-->
   </policy><!-- operation="delete"-->
   <redistribute>detail</redistribute> <!-- operation="delete"-->
   <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
   </retransmission><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf all
```

Configure cspf events

Use this attribute to enable CSPF Information debug.

Attribute Name: cspf-events

Attribute Type: uint8

Attribute Name: cspf-hexdump

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </cspf-hexdump><!-- operation="delete"-->
   </cspf-events><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug cspf all
```

Configure debug bfd

Use this attribute to enable Bidirectional Forwarding Detection (BFD) debug.

Attribute Name: bfd

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </bfd><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf bfd
```

Configure debug rate-limit

Use this attribute to enable OSPF Database Timers Rate Limiting Values for LSA Throttling debug.

Attribute Name: rate-limit

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </rate-limit><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf database-timer rate-limit
```

Configure segment routing

Use this attribute to enable Segment Routing debug.

Attribute Name: segment-routing

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </segment-routing><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf sr
```

Configure route

Use this attribute to enable OSPF route information debug.

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <route>spf</route> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf route ({spf|ia|ase|install|spf-terse}|)
```

Configure rib

Use this attribute to enable OSPF RIB information debug.

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <rib>interface</rib> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf rib ({interface|redistribute}|)
```

Configure nsm

Use this attribute to enable OSPF NSM information debug.

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <nsm>interface</nsm> <!-- operation="delete"-->
```

```
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf nsm ({interface|redistribute}|)
```

Configure nfsm

Use this attribute to enable OSPF Neighbor State Machine debug.

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <nfsm>status</nfsm> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf nfsm ({status|events|timers}|)
```

Configure lsa

Use this attribute to enable OSPF Link State Advertisement debug.

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <lsa>generate</lsa> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

Configure ifsm

Use this attribute to enable OSPF Interface State Machine debug.

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <ifsm>status</ifsm> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf ifsm ({status|events|timers}|)
```

Configure events

Use this attribute to enable OSPF events information debug.

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <events>abr</events> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)
```

Configure debug cspf-events

Use this attribute to enable CSPF Information debug.

Attribute Name: cspf-events

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </cspf-events><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug cspf events
```

Configure cspf hexdump

Use this attribute to enable CSPF message hexdump debug.

Attribute Name: cspf-hexdump

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </cspf-hexdump><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug cspf hexdump
```

Configure debug retransmission

Use this attribute to enable OSPF Debug retransmission information debug.

Attribute Name: retransmission

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </retransmission><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf retransmission
```

Configure distribute

Use this attribute to enable OSPF distribute linkstate details debug.

Attribute Name: distribute

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </distribute><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf dist-ls
```

Configure topology independent lfa

Use this attribute to enable Topology Independent LFA debug.

Attribute Name: topology-independent-lfa

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </topology-independent-lfa><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf tilfa
```

Configure lfa

Use this attribute to enable OSPF LFA route install details debug.

Attribute Name: lfa

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </lfa><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf lfa
```

Configure policy

Use this attribute to enable OSPF policy information debug.

Attribute Name: policy

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   </policy><!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf policy
```

Configure redistribute

Use this attribute to enable OSPF redistribute information debug.

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <redistribute>detail</redistribute> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf redistribute ({detail|terse}|)
```

Configure graceful restart

Use this attribute to enable OSPF graceful-restart debug.

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <graceful-restart>detail</graceful-restart> <!-- operation="delete"-->
```

```
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ip ospf graceful-restart ({detail|terse}|)
```

Configure packet hello

OSPF Hello

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <packet-hello>send</packet-hello> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet hello ({send|recv|detail}|)
```

Configure packet dd

OSPF Database Description

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <packet-dd>send</packet-dd> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet dd ({send|recv|detail}|)
```

Configure packet ls request

OSPF Link State Request

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet ls-request ({send|recv|detail}|)
```

Configure packet ls update

OSPF Link State Update

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet ls-update ({send|recv|detail}|)
```

Configure packet ls ack

OSPF Link State Acknowledgment

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<debug>
<config>
   <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
</config>
</debug>
</ospfv2>
```

Command Syntax

```
debug ospf packet ls-ack ({send|recv|detail}|)
```

clear ip ospf <0-65535> process

Attribute Name: process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf RPC payload

```
<ospfv2-clear-process xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<process-id>0</process-id>
</ospfv2-clear-process>
```

Command Syntax

```
clear ip ospf <0-65535> process
```

clear ip ospf process

Netconf RPC payload

```
<ospfv2-clear-process-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/
>
```

Command Syntax

```
clear ip ospf process
```

restart ip ospf graceful (grace-period <2-1800>|)

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf RPC payload

```
<ospfv2-restart-graceful xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<grace-period>2</grace-period>
</ospfv2-restart-graceful>
```

Command Syntax

```
restart ip ospf graceful (grace-period <2-1800>|)
```

snmp restart ospf

Netconf RPC payload

```
<ospfv2-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
snmp restart ospf
```

debug ospf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-ospf-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf all
```

no debug ospf all

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-ospf-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf all
```

debug ospf bfd

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-bfd-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf bfd
```

no debug ospf bfd

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-bfd-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf bfd
```

debug ospf database-timer rate-limit

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-rate-limit-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf database-timer rate-limit
```

no debug ospf database-timer rate-limit

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-rate-limit-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf database-timer rate-limit
```

debug ospf sr

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-sr-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ospf sr
```

no debug ospf sr

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-sr-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ospf sr
```

debug ospf route ({spf|ia|ase|install|spf-terse}|)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-route-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
<route>spf</route>
</ipi-ospf-debug_ospfv2-terminal-debug-route-on>
```

Command Syntax

```
debug ospf route ({spf|ia|ase|install|spf-terse}|)
```

no debug ospf route ({spf|ia|ase|install|spf-terse}|)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install|spf-terse)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-route-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <route>spf</route>
       </ipi-ospf-debug_ospfv2-terminal-debug-route-off>
```

Command Syntax

```
    no debug ospf route ({spf|ia|ase|install|spf-terse}|)
```

debug ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-rib-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <rib>interface</rib>
       </ipi-ospf-debug_ospfv2-terminal-debug-rib-on>
```

Command Syntax

```
    debug ospf rib ({interface|redistribute}|)
```

no debug ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-rib-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <rib>interface</rib>
       </ipi-ospf-debug_ospfv2-terminal-debug-rib-off>
```

Command Syntax

```
    no debug ospf rib ({interface|redistribute}|)
```

debug ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <all>send</all>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-all-on>
```

Command Syntax

```
    debug ospf packet ({send|recv|detail}|)
```

no debug ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <all>send</all>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-all-off>
```

Command Syntax

```
    no debug ospf packet ({send|recv|detail}|)
```

debug ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <hello>send</hello>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-on>
```

Command Syntax

```
    debug ospf packet hello ({send|recv|detail}|)
```

no debug ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <hello>send</hello>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-hello-off>
```

Command Syntax

```
no debug ospf packet hello ({send|recv|detail}|)
```

debug ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <dd>send</dd>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-on>
```

Command Syntax

```
debug ospf packet dd ({send|recv|detail}|)
```

no debug ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <dd>send</dd>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-dd-off>
```

Command Syntax

```
no debug ospf packet dd ({send|recv|detail}|)
```

debug ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <ls-request>send</ls-request>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-on>
```

Command Syntax

```
debug ospf packet ls-request ({send|recv|detail}|)
```

no debug ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <ls-request>send</ls-request>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-request-off>
```

Command Syntax

```
    no debug ospf packet ls-request ({send|recv|detail}|)
```

debug ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <ls-update>send</ls-update>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-on>
```

Command Syntax

```
    debug ospf packet ls-update ({send|recv|detail}|)
```

no debug ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <ls-update>send</ls-update>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-update-off>
```

Command Syntax

```
    no debug ospf packet ls-update ({send|recv|detail}|)
```

debug ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <ls-ack>send</ls-ack>
       </ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-on>
```

Command Syntax

```
debug ospf packet ls-ack ({send|recv|detail}|)
```

no debug ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
<ls-ack>send</ls-ack>
</ipi-ospf-debug_ospfv2-terminal-debug-packet-ls-ack-off>
```

Command Syntax

```
no debug ospf packet ls-ack ({send|recv|detail}|)
```

debug ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-nsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
<nsm>interface</nsm>
</ipi-ospf-debug_ospfv2-terminal-debug-nsm-on>
```

Command Syntax

```
debug ospf nsm ({interface|redistribute}|)
```

no debug ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
<ipi-ospf-debug_ospfv2-terminal-debug-nsm-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
<nsm>interface</nsm>
</ipi-ospf-debug_ospfv2-terminal-debug-nsm-off>
```

Command Syntax

```
no debug ospf nsm ({interface|redistribute}|)
```

debug ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-nfsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <nfsm>status</nfsm>
       </ipi-ospf-debug_ospfv2-terminal-debug-nfsm-on>
```

Command Syntax

```
    debug ospf nfsm ({status|events|timers}|)
```

no debug ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-nfsm-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <nfsm>status</nfsm>
       </ipi-ospf-debug_ospfv2-terminal-debug-nfsm-off>
```

Command Syntax

```
    no debug ospf nfsm ({status|events|timers}|)
```

debug ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-lsa-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <lsa>generate</lsa>
       </ipi-ospf-debug_ospfv2-terminal-debug-lsa-on>
```

Command Syntax

```
    debug ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

no debug ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-lsa-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <lsa>generate</lsa>
       </ipi-ospf-debug_ospfv2-terminal-debug-lsa-off>
```

Command Syntax

```
no debug ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

debug ospf ifsm ({status|events|timers}|)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-ifsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <ifsm>status</ifsm>
       </ipi-ospf-debug_ospfv2-terminal-debug-ifsm-on>
```

Command Syntax

```
debug ospf ifsm ({status|events|timers}|)
```

no debug ospf ifsm ({status|events|timers}|)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-ifsm-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf">
       <ifsm>status</ifsm>
       </ipi-ospf-debug_ospfv2-terminal-debug-ifsm-off>
```

Command Syntax

```
no debug ospf ifsm ({status|events|timers}|)
```

debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-events-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <events>abr</events>
       </ipi-ospf-debug_ospfv2-terminal-debug-events-on>
```

Command Syntax

```
debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)
```

no debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)

Attribute Name: events

Attribute Type: bits (abr|nssa|asbr|vlink|lsa|os|router)

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-events-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
       <events>abr</events>
       </ipi-ospf-debug_ospfv2-terminal-debug-events-off>
```

Command Syntax

```
    no debug ospf events ({abr|nssa|asbr|vlink|lsa|os|router}|)
```

debug cspf all

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-cspf-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    debug cspf all
```

no debug cspf all

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-cspf-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    no debug cspf all
```

debug cspf events

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-cspf-events-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    debug cspf events
```

no debug cspf events

Netconf RPC payload

```
       <ipi-ospf-debug_ospfv2-terminal-debug-cspf-events-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    no debug cspf events
```

debug cspf hexdump

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-cspf-hexdump-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug cspf hexdump
```

no debug cspf hexdump

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-cspf-hexdump-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug cspf hexdump
```

debug ip ospf all

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-all-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf all
```

no debug ip ospf all

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-all-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
no debug ip ospf all
```

debug ip ospf retransmission

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-retransmission-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
debug ip ospf retransmission
```

no debug ip ospf retransmission

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-retransmission-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    no debug ip ospf retransmission
```

debug ip ospf dist-ls

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-dist-ls-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    debug ip ospf dist-ls
```

no debug ip ospf dist-ls

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-dist-ls-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    no debug ip ospf dist-ls
```

debug ip ospf tilfa

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-topology-independent-lfa-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    debug ip ospf tilfa
```

no debug ip ospf tilfa

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-topology-independent-lfa-off xmlns="http:/
/www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    no debug ip ospf tilfa
```

debug ip ospf lfa

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-lfa-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    debug ip ospf lfa
```

no debug ip ospf lfa

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-lfa-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    no debug ip ospf lfa
```

debug ip ospf policy

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-policy-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    debug ip ospf policy
```

no debug ip ospf policy

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-policy-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf"/>
```

Command Syntax

```
    no debug ip ospf policy
```

debug ip ospf redistribute ({detail|terse}|)

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-redistribute-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
      <redistribute>detail</redistribute>
      </ipi-ospf-debug_ospfv2-terminal-debug-redistribute-on>
```

Command Syntax

```
debug ip ospf redistribute ({detail|terse}|)
```

no debug ip ospf redistribute ({detail|terse}|)

Attribute Name: redistribute

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-redistribute-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
      <redistribute>detail</redistribute>
      </ipi-ospf-debug_ospfv2-terminal-debug-redistribute-off>
```

Command Syntax

```
no debug ip ospf redistribute ({detail|terse}|)
```

debug ip ospf graceful-restart ({detail|terse}|)

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
      <graceful-restart>detail</graceful-restart>
      </ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-on>
```

Command Syntax

```
debug ip ospf graceful-restart ({detail|terse}|)
```

no debug ip ospf graceful-restart ({detail|terse}|)

Attribute Name: graceful-restart

Attribute Type: bits (detail|terse)

Netconf RPC payload

```
      <ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospf">
      <graceful-restart>detail</graceful-restart>
      </ipi-ospf-debug_ospfv2-terminal-debug-graceful-restart-off>
```

Command Syntax

```
no debug ip ospf graceful-restart ({detail|terse}|)
```

IPI-OSPF-INTERFACE

Configure cost

Use this attribute to explicitly specify the cost of the link-state metric in a router-LSA.

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <cost>1</cost> <!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
 ip ospf cost <1-65535>
```

Configure priority

Use this attribute to set the router priority to determine the designated router (DR) for the network.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <priority>0</priority> <!-- operation="delete"-->
</interface>
```

```
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf priority <0-255>
```

Configure mtu ignore

Use this attribute to configure OSPF so that it does not check the MTU size during DD (Database Description) exchange.

Attribute Name: mtu-ignore

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </mtu-ignore><!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf mtu-ignore
```

Configure network type

Use this attribute to set the interface network type.

Attribute Name: network-type

Attribute Type: enum (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-to-multipoint non-broadcast)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <network-type>point-to-point</network-type> <!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf network (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-
  to-multipoint non-broadcast)
```

Configure disable all ospf

Use this attribute to completely disable OSPF packet processing on an interface.

Attribute Name: disable-all-ospf

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </disable-all-ospf><!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf disable all
```

Configure traffic engineering metric

Use this attribute to set the minimum delay in milliseconds between accepting the same LSA from neighbors.

Attribute Name: traffic-engineering-metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <traffic-engineering-metric>1</traffic-engineering-metric> <!--
operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
te-metric <1-65535>
```

Configure mtu

Use this attribute to set MTU size for OSPF to construct packets based on this value.

Attribute Name: mtu

Attribute Type: uint16

Default Value: 576

Attribute Range: 576-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <mtu>576</mtu> <!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf mtu <576-65535>
```

Configure enable flood reduction

Use this attribute to enable flood reduction on an interface.

Attribute Name: enable-flood-reduction

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-flood-reduction><!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf flood-reduction
```

Configure enable demand circuit

Use this attribute to enable Hello Suppression and LSA Suppression sent on OSPF interface.

Attribute Name: enable-demand-circuit

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-demand-circuit><!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf demand-circuit
```

Configure enable bfd

Use this attribute to enable Bidirectional Forwarding Detection (BFD).

Attribute Name: enable-bfd

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <enable-bfd>enable</enable-bfd> <!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf bfd (disable|)
```

Configure disable fast reroute

Use this attribute to prohibit the interface from being used as the next hop in a repair path.

Attribute Name: disable-fast-reroute

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </disable-fast-reroute><!-- operation="delete"-->
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
 ip ospf fast-reroute per-prefix candidate disable
```

Configure key

Use this attribute to set the authentication password (key).

Attribute Name: key

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <authentication>
   <config>
          <key>WORD</key> <!-- operation="delete"-->
   </config>
</authentication>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
 ip ospf authentication-key WORD
```

Configure authentication type

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <authentication>
      <config>
            <authentication-type>simple</authentication-type> <!--
operation="delete"-->
      </config>
   </authentication>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
    ip ospf authentication (null|message-digest|)
```

Configure message digest id

Use this attribute to set the authentication message digest key ID.

Attribute Name: message-digest-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: message-digest-encryption-type

Attribute Type: enum (md5)

Attribute Name: message-digest-key

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
```

```
    <authentication>
    <message-digests>
    <message-digest> <!-- operation="delete"-->
       <message-digest-id>1</message-digest-id>
       <config>
          <message-digest-id>1</message-digest-id>
          <message-digest-encryption-type>md5</message-digest-encryption-type>
          <message-digest-key>WORD</message-digest-key>
       </config>
    </message-digest>
</message-digests>
</authentication>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf message-digest-key <1-255> (md5) WORD
```

Configure filter out

Use this attribute to turn on the LSA database-filter for a particular interface. OSPF floods new LSAs over all interfaces in an area, except the interface on which the LSA arrives. This redundancy ensures robust flooding. However, too much redundancy can waste bandwidth and might lead to excessive link and CPU usage in certain topologies, resulting in destabilizing the network. To avoid this, use this attribute to block flooding of LSAs over specified interfaces.

Attribute Name: filter-out

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <database-filter>
   <lsa>
   <config>
          </filter-out><!-- operation="delete"-->
   </config>
</lsa>
</database-filter>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf database-filter all out
```

Configure dead interval

Use this attribute to set the interval during which the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <timers>
   <config>
         <dead-interval>1</dead-interval> <!-- operation="delete"-->
   </config>
</timers>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
 ip ospf dead-interval <1-65535>
```

Configure hello interval

Use this attribute to specify the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <timers>
   <config>
         <hello-interval>1</hello-interval> <!-- operation="delete"-->
```

```
      </config>
   </timers>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
    ip ospf hello-interval <1-65535>
```

Configure retransmission interval

Use this attribute to specify the time between link-state advertisement (LSA) retransmissions for adjacencies belonging to the interface.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <timers>
      <config>
            <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
      </config>
   </timers>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
    ip ospf retransmit-interval <1-3600>
```

Configure transmit delay

Use this attribute to set the estimated time it takes to transmit a link-state-update packet on the interface.

Attribute Name: transmit-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <timers>
   <config>
          <transmit-delay>1</transmit-delay> <!-- operation="delete"-->
   </config>
</timers>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf transmit-delay <1-3600>
```

Configure resync timeout

Use this attribute to configure the interval after which adjacency is reset if oob-resync is not started.

Attribute Name: resync-timeout

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <timers>
   <config>
          <resync-timeout>1</resync-timeout> <!-- operation="delete"-->
   </config>
</timers>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf resync-timeout <1-65535>
```

Configure ldp igp sync enable

Use this attribute to enable the MPLS LDP IGP SYNC on OSPF.

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <timers>
   <config>
         </ldp-igp-sync-enable><!-- operation="delete"-->
   </config>
</timers>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
 mpls ldp-igp sync ospf
```

Configure holddown timer

Use this attribute to configure the hold-down timer for which OSPF will wait for LDP to converge and advertises Max cost. When the configured time expires, OSPF starts advertising the actual cost in the Router-LSA.

Attribute Name: holddown-timer

Attribute Type: uint32

Default Value: 70000

Attribute Range: 1-2147483

Attribute Name: ldp-igp-sync-enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <timers>
   <config>
```

```
            </ldp-igp-sync-enable><!-- operation="delete"-->
            <holddown-timer>1</holddown-timer> <!-- operation="delete"-->
      </config>
   </timers>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
mpls ldp-igp sync ospf holddown-timer <1-2147483>
```

Configure name

Use this attribute to explicitly specify the cost of the link-state metric in a router-LSA.

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <addresses>
      <address>
         <interface-address>A.B.C.D</interface-address>
         <config>
            <interface-address>A.B.C.D</interface-address>
         </config>
            <cost>1</cost> <!-- operation="delete"-->
      </address>
   </addresses>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D cost <1-65535>
```

Configure interface address

Use this attribute to set the router priority to determine the designated router (DR) for the network.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <addresses>
   <address>
      <interface-address>A.B.C.D</interface-address>
      <config>
         <interface-address>A.B.C.D</interface-address>
      </config>
         <priority>0</priority> <!-- operation="delete"-->
   </address>
</addresses>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
 ip ospf A.B.C.D priority <0-255>
```

Configure address mtu-ignore

Use this attribute to configure OSPF so that it does not check the MTU size during DD (Database Description) exchange.

Attribute Name: mtu-ignore

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <addresses>
   <address>
      <interface-address>A.B.C.D</interface-address>
      <config>
         <interface-address>A.B.C.D</interface-address>
```

```
        </config>
           </mtu-ignore><!-- operation="delete"-->
      </address>
   </addresses>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D mtu-ignore
```

Configure authentication key

Use this attribute to set the authentication password (key).

Attribute Name: key

Attribute Type: string

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <addresses>
   <address>
      <interface-address>A.B.C.D</interface-address>
      <config>
         <interface-address>A.B.C.D</interface-address>
      </config>
      <authentication>
      <config>
            <key>WORD</key> <!-- operation="delete"-->
      </config>
   </authentication>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D authentication-key WORD
```

Configure authentication authentication-type

Use this attribute to configure authentication on this interface.

Attribute Name: authentication-type

Attribute Type: enum (null|simple|message-digest)

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <interfaces>
   <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
       <addresses>
       <address>
          <interface-address>A.B.C.D</interface-address>
          <config>
             <interface-address>A.B.C.D</interface-address>
          </config>
          <authentication>
          <config>
                <authentication-type>simple</authentication-type> <!--
operation="delete"-->
          </config>
       </authentication>
   </address>
   </addresses>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
    ip ospf A.B.C.D authentication (null|message-digest|)
```

Configure message digest encryption type

Use this attribute to set the authentication message digest key ID.

Attribute Name: message-digest-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: message-digest-encryption-type

Attribute Type: enum (md5)

Attribute Name: message-digest-key

Attribute Type: string

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <interfaces>
   <interface>
```

```
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <addresses>
    <address>
        <interface-address>A.B.C.D</interface-address>
        <config>
            <interface-address>A.B.C.D</interface-address>
        </config>
        <authentication>
        <message-digests>
        <message-digest> <!-- operation="delete"-->
            <message-digest-id>1</message-digest-id>
            <config>
                <message-digest-id>1</message-digest-id>
                <message-digest-encryption-type>md5</message-digest-encryption-type>
                <message-digest-key>WORD</message-digest-key>
            </config>
        </message-digest>
    </message-digests>
</authentication>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D message-digest-key <1-255> (md5) WORD
```

Configure timers dead-interval

Use this attribute to set the interval during which the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <addresses>
    <address>
```

```
        <interface-address>A.B.C.D</interface-address>
        <config>
           <interface-address>A.B.C.D</interface-address>
        </config>
        <timers>
        <config>
               <dead-interval>1</dead-interval> <!-- operation="delete"-->
        </config>
     </timers>
  </address>
  </addresses>
  </interface>
  </interfaces>
  </ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D dead-interval <1-65535>
```

Configure timers hello-interval

Use this attribute to specify the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
  <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
  <interfaces>
  <interface>
     <name>WORD</name>
     <config>
        <name>WORD</name>
     </config>
     <addresses>
     <address>
        <interface-address>A.B.C.D</interface-address>
        <config>
           <interface-address>A.B.C.D</interface-address>
        </config>
        <timers>
        <config>
               <hello-interval>1</hello-interval> <!-- operation="delete"-->
        </config>
     </timers>
  </address>
  </addresses>
  </interface>
```

```
   </interfaces>
   </ospfv2>
```

Command Syntax

```
    ip ospf A.B.C.D hello-interval <1-65535>
```

Configure timers retransmission-interval

Use this attribute to specify the time between link-state advertisement (LSA) retransmissions for adjacencies belonging to the interface.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-3600

Netconf edit-config payload

```
   <ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <addresses>
      <address>
         <interface-address>A.B.C.D</interface-address>
         <config>
            <interface-address>A.B.C.D</interface-address>
         </config>
         <timers>
         <config>
               <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
         </config>
      </timers>
   </address>
   </addresses>
   </interface>
   </interfaces>
   </ospfv2>
```

Command Syntax

```
    ip ospf A.B.C.D retransmit-interval <1-3600>
```

Configure timers transmit-delay

Use this attribute to set the estimated time it takes to transmit a link-state-update packet on the interface.

Attribute Name: transmit-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-3600

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <addresses>
   <address>
      <interface-address>A.B.C.D</interface-address>
      <config>
         <interface-address>A.B.C.D</interface-address>
      </config>
      <timers>
      <config>
            <transmit-delay>1</transmit-delay> <!-- operation="delete"-->
      </config>
   </timers>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D transmit-delay <1-3600>
```

Configure timers resync-timeout

Use this attribute to configure the interval after which adjacency is reset if oob-resync is not started.

Attribute Name: resync-timeout

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
```

```
    </config>
    <addresses>
    <address>
        <interface-address>A.B.C.D</interface-address>
        <config>
            <interface-address>A.B.C.D</interface-address>
        </config>
        <timers>
        <config>
               <resync-timeout>1</resync-timeout> <!-- operation="delete"-->
        </config>
    </timers>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D resync-timeout <1-65535>
```

Configure lsa filter-out

Use this attribute to turn on the LSA database-filter for a particular interface. OSPF floods new LSAs over all interfaces in an area, except the interface on which the LSA arrives. This redundancy ensures robust flooding. However, too much redundancy can waste bandwidth and might lead to excessive link and CPU usage in certain topologies, resulting in destabilizing the network. To avoid this, use this attribute to block flooding of LSAs over specified interfaces.

Attribute Name: filter-out

Attribute Type: empty

Netconf edit-config payload

```
<ospfv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospf">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <addresses>
    <address>
        <interface-address>A.B.C.D</interface-address>
        <config>
            <interface-address>A.B.C.D</interface-address>
        </config>
        <database-filter>
        <lsa>
        <config>
               </filter-out><!-- operation="delete"-->
        </config>
```

```
   </lsa>
</database-filter>
</address>
</addresses>
</interface>
</interfaces>
</ospfv2>
```

Command Syntax

```
ip ospf A.B.C.D database-filter all out
```

IPI-OSPFV3

Configure display route on single line

Use this attribute to display the output of the show ipv6 ospf route command with each route entry in a singleline.

Attribute Name: display-route-on-single-line

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<global>
<config>
   </display-route-on-single-line><!-- operation="delete"-->
</config>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf display route single-line
```

Configure grace period

Use this attribute to enable the graceful restart feature and set the grace period for restarting the router

This command is supported when following feature are enabled Restart capability

Attribute Name: grace-period

Attribute Type: uint16

Default Value: 120

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<global>
<graceful-restart>
<config>
```

```
   <grace-period>2</grace-period> <!-- operation="delete"-->
</config>
</graceful-restart>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart grace-period <2-1800>
```

Configure controlled restarts only

Use this attribute to enable the graceful restart controlled restarts only for the router

This command is supported when following feature are enabled Restart capability

Attribute Name: controlled-restarts-only

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<global>
<graceful-restart>
<config>
   </controlled-restarts-only><!-- operation="delete"-->
</config>
</graceful-restart>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart planned-only
```

Configure max grace period

Use this attribute to set the maximum grace period to act as helper. i.e Help only if received grace-period is less than set value.

This command is supported when following feature are enabled Restart capability

Attribute Name: max-grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<global>
<graceful-restart>
<helper>
<config>
   <max-grace-period>2</max-grace-period> <!-- operation="delete"-->
</config>
```

```
</helper>
</graceful-restart>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart helper max-grace-period <2-1800>
```

Configure disable all neighbors

Use this attribute to set disable acting as helper for all neighbors.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-all-neighbors

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<global>
<graceful-restart>
<helper>
<config>
   </disable-all-neighbors><!-- operation="delete"-->
</config>
</helper>
</graceful-restart>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart helper never
```

Configure disable neighbor

Use this attribute to set disable acting as helper for specified neighbor.

This command is supported when following feature are enabled Restart capability

Attribute Name: disable-neighbor

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<global>
<graceful-restart>
<helper>
<config>
   <disable-neighbor>A.B.C.D</disable-neighbor> <!-- operation="delete"-->
</config>
</helper>
```

```
</graceful-restart>
</global>
</ospfv3>
```

Command Syntax

```
ipv6 ospf restart helper never router-id A.B.C.D
```

Configure ospfv3 id

Use this attribute to set the OSPFv3 process ID

Attribute Name: ospfv3-id

Attribute Type: string

Attribute Range: 0-254

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process> <!-- operation="delete"-->
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
      <vrf-name>WORD</vrf-name>
   </config>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
router ipv6 ospf (WORD|) (WORD|)
```

Configure vrf name

VRF Name to associate with this instance

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   <vrf-name>WORD</vrf-name>
```

```
</process>
</processes>
</ospfv3>
```

Command Syntax

```
router ipv6 vrf ospf WORD
```

Configure router id

Use this attribute to set a router ID for the OSPFv3 process. Configure each router OSPFv3 with an unique router ID

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
router-id A.B.C.D
```

Configure bfd enable all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: bfd-enable-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   </bfd-enable-all-interfaces><!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
bfd all-interfaces
```

Configure database summary

Use this attribute to enable the database summary list optimization for OSPFv3.

Attribute Name: database-summary

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   </database-summary><!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
enable db-summary-opt
```

Configure area border type

Use this attribute to set an OSPFv3 Area Border Router (ABR) type.

Attribute Name: area-border-type

Attribute Type: enum (standard|cisco|ibm)

Default Value: cisco

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   <area-border-type>cisco</area-border-type> <!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
abr-type (standard|cisco|ibm)
```

Configure default metric

Use this attribute to set a default metric for OSPFv3.

Attribute Name: default-metric

Attribute Type: uint32

Default Value: 20

Attribute Range: 1-16777214

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   <default-metric>1</default-metric> <!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
default-metric <1-16777214>
```

Configure shutdown

Use this attribute to specify an OSPFv3 shutdown

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   </shutdown><!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
shutdown
```

Configure log adjacency changes

Use this attribute for the the router to send a SYSLOG message when an OSPFv3 neighbor goes up or down.

Attribute Name: log-adjacency-changes

Attribute Type: enum (brief|detail)

Default Value: brief

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   <log-adjacency-changes>brief</log-adjacency-changes> <!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
log-adjacency-changes (brief|detail|)
```

Configure reference bandwidth

Use this attribute to control how OSPFv3 calculates the default metric for the interface.

Attribute Name: reference-bandwidth

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-4294967

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
   <reference-bandwidth>1</reference-bandwidth> <!-- operation="delete"-->
</process>
</processes>
</ospfv3>
```

Command Syntax

```
auto-cost reference-bandwidth <1-4294967>
```

Configure max database descriptors

Use this attribute to limit the number of Database Descriptors (DD) that can be processed concurrently.

Attribute Name: max-database-descriptors

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-65535

Netconf edit-config payload

```
   <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
   <processes>
   <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
         <ospfv3-id>0</ospfv3-id>
      </config>
      <max-database-descriptors>1</max-database-descriptors> <!-- operation="delete"--
>
   </process>
   </processes>
   </ospfv3>
```

Command Syntax

```
    max-concurrent-dd <1-65535>
```

Configure default distance

Default administrative distance value

Attribute Name: default-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Netconf edit-config payload

```
   <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
   <processes>
   <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
         <ospfv3-id>0</ospfv3-id>
      </config>
   <administrative-distance>
   <config>
         <default-distance>1</default-distance> <!-- operation="delete"-->
   </config>
   </administrative-distance>
   </process>
```

```
   </processes>
   </ospfv3>
```

Command Syntax

```
    distance <1-254>
```

Configure intra area distance

Administrative distance for intra-area routes

Attribute Name: intra-area-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Attribute Name: inter-area-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Attribute Name: external-routes-distance

Attribute Type: uint8

Default Value: 110

Attribute Range: 1-254

Netconf edit-config payload

```
   <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
   <processes>
   <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
         <ospfv3-id>0</ospfv3-id>
      </config>
   <administrative-distance>
   <ospf>
   <config>
          <inter-area-distance>1</inter-area-distance> <!-- operation="delete"-->
          <external-routes-distance>1</external-routes-distance> <!--
operation="delete"-->
          <intra-area-distance>1</intra-area-distance> <!-- operation="delete"-->
   </config>
   </ospf>
   </administrative-distance>
   </process>
   </processes>
   </ospfv3>
```

Command Syntax

```
distance ospfv3 { intra-area <1-254>| inter-area <1-254>| external <1-254> }
```

Configure traffic engineering

OSPFv3 Traffic Engineering extension

Attribute Name: traffic-engineering

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<capability>
<config>
      </traffic-engineering><!-- operation="delete"-->
</config>
</capability>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
capability te
```

Configure disable graceful restart

Graceful OSPFv3 Restart

Attribute Name: disable-graceful-restart

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<capability>
<config>
      </disable-graceful-restart><!-- operation="delete"-->
</config>
</capability>
```

```
</process>
</processes>
</ospfv3>
```

Command Syntax

```
no capability restart
```

Configure exponential max delay

Use this attribute to set the maximum SPF hold delay time in milliseconds

Attribute Name: exponential-max-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Attribute Name: exponential-min-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<timers>
<spf>
<config>
       <exponential-min-delay>0</exponential-min-delay>
       <exponential-max-delay>0</exponential-max-delay>
</config>
</spf>
</timers>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
timers spf exp <0-2147483647> <0-2147483647>
```

Configure ospf6SRv6enable

Enable segment routing v6

This command is supported when following feature are enabled OSPFv3 IPv6 Segment Routing

Attribute Name: ospf6SRv6enable

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<ospfv3-srv6>
<config>
      </ospf6SRv6enable><!-- operation="delete"-->
</config>
</ospfv3-srv6>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 segment-routing srv6
```

Configure ospf6SRv6LocatorName

Locator name

This command is supported when following feature are enabled OSPFv3 IPv6 Segment Routing

Attribute Name: ospf6SRv6LocatorName

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<ospfv3-srv6>
<locator-lists>
<locator-list> <!-- operation="delete"-->
   <ospf6SRv6LocatorName>WORD</ospf6SRv6LocatorName>
   <config>
      <ospf6SRv6LocatorName>WORD</ospf6SRv6LocatorName>
   </config>
</locator-list>
</locator-lists>
</ospfv3-srv6>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
srv6-locator WORD
```

Configure all interfaces

Use this attribute to set all interfaces as passive

Attribute Name: all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<passive-interfaces>
<config>
      </all-interfaces><!-- operation="delete"-->
</config>
</passive-interfaces>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
passive-interface
```

Configure name

Use this attribute to set interface as passive or not.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: passive-mode

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
```

```
<passive-interfaces>
<passive-interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
      <passive-mode>enable</passive-mode>
   </config>
</passive-interface>
</passive-interfaces>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
passive-interface IFNAME (disable|enable)
```

Configure address

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<summary-addresses>
<summary-address> <!-- operation="delete"-->
   <address>X:X::X:X/M</address>
   <config>
      <address>X:X::X:X/M</address>
   </config>
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address X:X::X:X/M
```

Configure translate tag

Use this attribute to set or unset translate tag to external routes with the specified address range.

Attribute Name: translate-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Attribute Name: all-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<summary-addresses>
<summary-address>
   <address>X:X::X:X/M</address>
   <config>
      <address>X:X::X:X/M</address>
      <all-tag>0</all-tag> <!-- operation="delete"-->
   </config>
      <translate-tag>0</translate-tag> <!-- operation="delete"-->
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address X:X::X:X/M all-tag <0-4294967295> translate-tag <0-4294967295>
```

Configure not advertise

Use this attribute to set or unset not advertise to summarize or suppress external routes with the specified address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
```

```
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<summary-addresses>
<summary-address>
    <address>X:X::X:X/M</address>
    <config>
       <address>X:X::X:X/M</address>
    </config>
       </not-advertise><!-- operation="delete"-->
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address X:X::X:X/M not-advertise
```

Configure summary-address translate-tag

Use this attribute to set or unset translate tag to external routes with the specified address range.

Attribute Name: translate-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<summary-addresses>
<summary-address>
    <address>X:X::X:X/M</address>
    <config>
       <address>X:X::X:X/M</address>
    </config>
       <translate-tag>0</translate-tag> <!-- operation="delete"-->
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address X:X::X:X/M translate-tag <0-4294967295>
```

Configure all tag

Use this attribute to set or unset all tag to summarize or suppress external routes with the specified address range.

Attribute Name: all-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<summary-addresses>
<summary-address>
   <address>X:X::X:X/M</address>
   <config>
      <address>X:X::X:X/M</address>
   </config>
      <all-tag>0</all-tag> <!-- operation="delete"-->
</summary-address>
</summary-addresses>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address X:X::X:X/M all-tag <0-4294967295>
```

Configure originate

Use this attribute to create a default external route into an OSPF routing domain. The system acts like an Autonomous System Boundary Router (ASBR) when you use the default-information originate command to redistribute routes into an OSPF routing domain. An ASBR does not by default generate a default route into the OSPF routing domain

Attribute Name: originate

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
```

```
    <ospfv3-id>WORD</ospfv3-id>
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<default-information>
<config>
       </originate><!-- operation="delete"-->
</config>
</default-information>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
default-information originate
```

Configure route map

Use this attribute to set route-map instance.

Attribute Name: route-map

Attribute Type: string

Attribute Range: 1-63

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise-default-route

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 20

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<default-information>
<config>
```

```
        </originate><!-- operation="delete"-->
        </always-advertise-default-route><!-- operation="delete"-->
        <metric>0</metric> <!-- operation="delete"-->
        <metric-type>2</metric-type> <!-- operation="delete"-->
        <route-map>WORD</route-map> <!-- operation="delete"-->
</config>
</default-information>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
default-information originate { always| metric <0-16777214>| metric-type (1|2)|
  route-map WORD }
```

Configure access control list

Use this attribute to set the access control list name in distribution list.

This command is supported when following feature are enabled HAVE_ACL

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<distribute-list>
<filter-in>
<config>
       <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
</config>
</filter-in>
</distribute-list>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
distribute-list WORD in
```

Configure protocol

Use this attribute to import routes from other routing protocols, or from another OSPF instance, into OSPFv3 ASexternal-LSAs.

This command is supported when following feature are enabled HAVE_ACL

Attribute Name: protocol

Attribute Type: enum (connected|static|rip|bgp|isis)

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<distribute-list>
<filter-out>
<routing-protocols>
<routing-protocol>
   <protocol>connected</protocol>
   <config>
      <protocol>connected</protocol>
      <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
   </config>
</routing-protocol>
</routing-protocols>
</filter-out>
</distribute-list>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
distribute-list WORD out (connected|static|rip|bgp|isis)
```

Configure ospf process id

Use this attribute to filter networks in routing updates.

This command is supported when following feature are enabled HAVE_ACL

Attribute Name: ospf-process-id

Attribute Type: string

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<distribute-list>
<filter-out>
<ospf-processes>
<ospf-process>
   <ospf-process-id>1-65535</ospf-process-id>
   <config>
      <ospf-process-id>WORD</ospf-process-id>
      <access-control-list>WORD</access-control-list> <!-- operation="delete"-->
   </config>
</ospf-process>
</ospf-processes>
</filter-out>
</distribute-list>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 distribute-list WORD out ospf (WORD|)
```

Configure routing-protocols protocol

Use this attribute to import routes from other routing protocols, or from another OSPF instance, into OSPFv3 ASexternal-LSAs.

Attribute Name: protocol

Attribute Type: enum (connected|static|rip|bgp|isis)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<redistribute>
<routing-protocols>
<routing-protocol> <!-- operation="delete"-->
```

```
    <protocol>connected</protocol>
    <config>
        <protocol>connected</protocol>
    </config>
</routing-protocol>
</routing-protocols>
</redistribute>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute (connected|static|rip|bgp|isis)
```

Configure metric

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
        <ospfv3-id>0</ospfv3-id>
    </config>
<redistribute>
<routing-protocols>
<routing-protocol>
    <protocol>connected</protocol>
    <config>
        <protocol>connected</protocol>
```

```
        <metric-type>2</metric-type> <!-- operation="delete"-->
        <route-map>WORD</route-map> <!-- operation="delete"-->
        <route-tag>0</route-tag> <!-- operation="delete"-->
    </config>
        <metric>0</metric> <!-- operation="delete"-->
</routing-protocol>
</routing-protocols>
</redistribute>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute (connected|static|rip|bgp|isis) { metric <0-16777214>| metric-type
  (1|2)| route-map WORD| tag <0-4294967295> }
```

Configure ospf-processes ospf-process-id

Use this attribute to specify OSPF routes.

Attribute Name: ospf-process-id

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<redistribute>
<ospf-processes>
<ospf-process> <!-- operation="delete"-->
   <ospf-process-id>WORD</ospf-process-id>
   <config>
      <ospf-process-id>WORD</ospf-process-id>
   </config>
</ospf-process>
</ospf-processes>
</redistribute>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (WORD|)
```

Configure metric type

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<redistribute>
<ospf-processes>
<ospf-process>
   <ospf-process-id>WORD</ospf-process-id>
   <config>
      <ospf-process-id>WORD</ospf-process-id>
      <metric-type>2</metric-type> <!-- operation="delete"-->
      <route-map>WORD</route-map> <!-- operation="delete"-->
      <route-tag>0</route-tag> <!-- operation="delete"-->
   </config>
      <metric>0</metric> <!-- operation="delete"-->
</ospf-process>
</ospf-processes>
</redistribute>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (WORD|) { metric <0-16777214>| metric-type (1|2)| route-map WORD|
  tag <0-4294967295> }
```

Configure default cost

Use this attribute to set the cost for default summary route sent into a stub area. If an area is configured as a stub, the OSPFv3 router originates one type-3 inter-area-prefix-LSA into the stub area. This attribute changes the metric for this LSA.

Attribute Name: default-cost

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777215

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<areas>
<area>
   <area-id>OSPFV3_AREA_T</area-id>
   <config>
      <area-id>OSPFV3_AREA_T</area-id>
   </config>
      <default-cost>0</default-cost> <!-- operation="delete"-->
</area>
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) default-cost <0-16777215>
```

Configure no summary

Use this attribute to do not inject inter-area routes into stub.

Attribute Name: no-summary

Attribute Type: empty

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<areas>
<area>
   <area-id>OSPFV3_AREA_T</area-id>
   <config>
      <area-id>OSPFV3_AREA_T</area-id>
   </config>
   <stub>
   <config>
          </enable><!-- operation="delete"-->
          </no-summary><!-- operation="delete"-->
   </config>
</stub>
</area>
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 area stub no-summary
```

Configure enable

Use this attribute to define an area as a stub area on all routers.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<areas>
<area>
   <area-id>OSPFV3_AREA_T</area-id>
   <config>
      <area-id>OSPFV3_AREA_T</area-id>
   </config>
```

```
    <stub>
    <config>
           </enable>
    </config>
</stub>
</area>
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 area stub
```

Configure area id

Use this attribute to set an area as a Not-So-Stubby-Area (NSSA).

This command is supported when following feature are enabled HAVE_NSSA

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
        <ospfv3-id>0</ospfv3-id>
    </config>
<areas>
<area>
    <area-id>OSPFV3_AREA_T</area-id>
    <config>
        <area-id>OSPFV3_AREA_T</area-id>
    </config>
    <nssa>
    <config>
           </enable><!-- operation="delete"-->
    </config>
</nssa>
</area>
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 area nssa
```

Configure remote router id

Use this attribute to set the interface IP address of the neighbor.

Attribute Name: remote-router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<areas>
<area>
   <area-id>OSPFV3_AREA_T</area-id>
   <config>
      <area-id>OSPFV3_AREA_T</area-id>
   </config>
   <virtual-links>
   <virtual-link> <!-- operation="delete"-->
      <remote-router-id>A.B.C.D</remote-router-id>
      <config>
         <remote-router-id>A.B.C.D</remote-router-id>
      </config>
   </virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 area virtual-link A.B.C.D
```

Configure bfd fall over

Use this attribute to enable BFD on a virtual-link.

Attribute Name: bfd-fall-over

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
```

```
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<areas>
<area>
    <area-id>OSPFV3_AREA_T</area-id>
    <config>
       <area-id>OSPFV3_AREA_T</area-id>
    </config>
    <virtual-links>
    <virtual-link>
       <remote-router-id>A.B.C.D</remote-router-id>
       <config>
          <remote-router-id>A.B.C.D</remote-router-id>
       </config>
          </bfd-fall-over><!-- operation="delete"-->
    </virtual-link>
</virtual-links>
</area>
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 area virtual-link A.B.C.D fall-over bfd
```

Configure instance id

The OSPFv3 instance.

Attribute Name: instance-id

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-31,64-95

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<areas>
<area>
    <area-id>OSPFV3_AREA_T</area-id>
    <config>
       <area-id>OSPFV3_AREA_T</area-id>
```

```
       </config>
       <virtual-links>
       <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
             <remote-router-id>A.B.C.D</remote-router-id>
          </config>
             <instance-id>0</instance-id> <!-- operation="delete"-->
       </virtual-link>
    </virtual-links>
    </area>
    </areas>
    </process>
    </processes>
    </ospfv3>
```

Command Syntax

```
 area virtual-link A.B.C.D instance-id (<0-31>|<64-95>)
```

Configure authentication cryptomap

Use this attribute to set the Crypto-map used to setup IPsec SA.

Attribute Name: authentication-cryptomap

Attribute Type: string

Netconf edit-config payload

```
    <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
    <processes>
    <process>
       <ospfv3-id>WORD</ospfv3-id>
       <config>
          <ospfv3-id>0</ospfv3-id>
       </config>
    <areas>
    <area>
       <area-id>OSPFV3_AREA_T</area-id>
       <config>
          <area-id>OSPFV3_AREA_T</area-id>
       </config>
       <virtual-links>
       <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
             <remote-router-id>A.B.C.D</remote-router-id>
          </config>
             <authentication-cryptomap>WORD</authentication-cryptomap> <!--
operation="delete"-->
       </virtual-link>
    </virtual-links>
```

```
</area>
</areas>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
area virtual-link A.B.C.D authentication cryptomap WORD
```

Configure dead interval

Use this command to set the amount of time that the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down.

Attribute Name: dead-interval

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: transmission-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-1800

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<areas>
<area>
   <area-id>OSPFV3_AREA_T</area-id>
   <config>
      <area-id>OSPFV3_AREA_T</area-id>
   </config>
```

```
       <virtual-links>
       <virtual-link>
          <remote-router-id>A.B.C.D</remote-router-id>
          <config>
             <remote-router-id>A.B.C.D</remote-router-id>
          </config>
          <timers>
          <config>
                <hello-interval>1</hello-interval> <!-- operation="delete"-->
                <transmission-delay>1</transmission-delay> <!-- operation="delete"-->
                <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
                <dead-interval>1</dead-interval> <!-- operation="delete"-->
          </config>
       </timers>
   </virtual-link>
   </virtual-links>
   </area>
   </areas>
   </process>
   </processes>
   </ospfv3>
```

Command Syntax

```
    area virtual-link A.B.C.D { dead-interval <1-65535>| hello-interval <1-65535>|
      transmit-delay <1-1800>| retransmit-interval <1-1800> }
```

Configure address-ranges address

Use this attribute to configure the OSPFv3 address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
   <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
   <processes>
   <process>
      <ospfv3-id>WORD</ospfv3-id>
      <config>
         <ospfv3-id>0</ospfv3-id>
      </config>
   <areas>
   <area>
      <area-id>OSPFV3_AREA_T</area-id>
      <config>
         <area-id>OSPFV3_AREA_T</area-id>
      </config>
      <address-ranges>
      <address-range> <!-- operation="delete"-->
```

```
        <address>X:X::X:X/M</address>
        <config>
           <address>X:X::X:X/M</address>
        </config>
     </address-range>
  </address-ranges>
  </area>
  </areas>
  </process>
  </processes>
  </ospfv3>
```

Command Syntax

```
 area range X:X::X:X/M
```

Configure address-range not-advertise

Use this attribute to Specify to advertise / non-advertise the OSPFv3 address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```
  <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <processes>
  <process>
     <ospfv3-id>WORD</ospfv3-id>
     <config>
        <ospfv3-id>0</ospfv3-id>
     </config>
  <areas>
  <area>
     <area-id>OSPFV3_AREA_T</area-id>
     <config>
        <area-id>OSPFV3_AREA_T</area-id>
     </config>
     <address-ranges>
     <address-range>
        <address>X:X::X:X/M</address>
        <config>
           <address>X:X::X:X/M</address>
        </config>
           </not-advertise><!-- operation="delete"-->
     </address-range>
  </address-ranges>
  </area>
  </areas>
  </process>
  </processes>
  </ospfv3>
```

Command Syntax

```
area range X:X::X:X/M not-advertise
```

Configure address-ranges address

Use this attribute to configure the OSPFv3 address range for IPv4 address family.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<areas>
<area>
   <area-id>OSPFV3_AREA_T</area-id>
   <config>
      <area-id>OSPFV3_AREA_T</area-id>
   </config>
   <address-ranges>
   <address-range> <!-- operation="delete"-->
      <address>A.B.C.D/M</address>
      <config>
         <address>A.B.C.D/M</address>
      </config>
   </address-range>
</address-ranges>
</area>
</areas>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
area (A.B.C.D|<0-4294967295>) range A.B.C.D/M
```

Configure address-range not-advertise

Use this attribute to Specify to advertise / non-advertise the OSPFv3 address range for IPv4 address family.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<areas>
<area>
   <area-id>OSPFV3_AREA_T</area-id>
   <config>
      <area-id>OSPFV3_AREA_T</area-id>
   </config>
   <address-ranges>
   <address-range>
      <address>A.B.C.D/M</address>
      <config>
         <address>A.B.C.D/M</address>
      </config>
         </not-advertise><!-- operation="delete"-->
   </address-range>
</address-ranges>
</area>
</areas>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
 area range A.B.C.D/M not-advertise
```

Configure summary-addresses address

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
```

```
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<address-family>
<ipv4>
<summary-addresses>
<summary-address> <!-- operation="delete"-->
    <address>A.B.C.D/M</address>
    <config>
       <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
    </config>
</summary-address>
</summary-addresses>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address A.B.C.D/M
```

Configure summary-address not-advertise

Use this attribute to summarize or suppress external routes with the specified address range.

Attribute Name: not-advertise

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
       <ospfv3-id>0</ospfv3-id>
    </config>
<address-family>
<ipv4>
<summary-addresses>
<summary-address>
    <address>A.B.C.D/M</address>
    <config>
       <address>A.B.C.D/M</address>
    </config>
       </not-advertise><!-- operation="delete"-->
</summary-address>
</summary-addresses>
</ipv4>
</address-family>
```

```
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address A.B.C.D/M not-advertise
```

Configure tag

Use this attribute to configure the Tag value to use as a match value for controlling redistribution via route maps.

Attribute Name: tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<summary-addresses>
<summary-address>
   <address>A.B.C.D/M</address>
   <config>
      <address>A.B.C.D/M</address>
   </config>
      <tag>0</tag> <!-- operation="delete"-->
</summary-address>
</summary-addresses>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
summary-address A.B.C.D/M tag <0-4294967295>
```

Configure default-information originate

Use this attribute to create a default external route into an OSPF routing domain. The system acts like an Autonomous System Boundary Router (ASBR) when you use the default-information originate command to redistribute routes into an OSPF routing domain. An ASBR does not by default generate a default route into the OSPF routing domain

Attribute Name: originate

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<default-information>
<config>
      </originate><!-- operation="delete"-->
</config>
</default-information>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
default-information originate
```

Configure always advertise default route

Use this attribute to set route-map instance.

Attribute Name: route-map

Attribute Type: string

Attribute Range: 1-63

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise-default-route

Attribute Type: empty

Attribute Name: metric

Attribute Type: uint32

Default Value: 20

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<default-information>
<config>
       </originate><!-- operation="delete"-->
       </always-advertise-default-route><!-- operation="delete"-->
       <metric>0</metric> <!-- operation="delete"-->
       <metric-type>2</metric-type> <!-- operation="delete"-->
       <route-map>WORD</route-map> <!-- operation="delete"-->
</config>
</default-information>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
default-information originate { always| metric <0-16777214>| metric-type (1|2)|
  route-map WORD }
```

Configure protocol af

Use this attribute to import routes from other routing protocols, or from another OSPF instance, into OSPFv3 ASexternal-LSAs.

Attribute Name: protocol-af

Attribute Type: enum (connected|static|rip|bgp|isis)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<redistribute>
<routing-protocols>
<routing-protocol> <!-- operation="delete"-->
```

```
    <protocol-af>connected</protocol-af>
    <config>
        <protocol-af>connected</protocol-af>
    </config>
</routing-protocol>
</routing-protocols>
</redistribute>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute (connected|static|rip|bgp|isis)
```

Configure route tag

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
    <ospfv3-id>WORD</ospfv3-id>
    <config>
        <ospfv3-id>0</ospfv3-id>
    </config>
<address-family>
<ipv4>
<redistribute>
<routing-protocols>
```

```
<routing-protocol>
   <protocol-af>connected</protocol-af>
   <config>
      <protocol-af>connected</protocol-af>
      <metric-type>2</metric-type> <!-- operation="delete"-->
      <route-map>WORD</route-map> <!-- operation="delete"-->
      <route-tag>0</route-tag> <!-- operation="delete"-->
   </config>
      <metric>0</metric> <!-- operation="delete"-->
</routing-protocol>
</routing-protocols>
</redistribute>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute (connected|static|rip|bgp|isis) { metric <0-16777214>| metric-type
  (1|2)| route-map WORD| tag <0-4294967295> }
```

Configure ospfv2 process id

Use this attribute to specify OSPF routes.

Attribute Name: ospfv2-process-id

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<redistribute>
<ospf-processes>
<ospf-process> <!-- operation="delete"-->
   <ospfv2-process-id>0</ospfv2-process-id>
   <config>
      <ospfv2-process-id>0</ospfv2-process-id>
   </config>
</ospf-process>
</ospf-processes>
</redistribute>
```

```
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (<0-65535>|)
```

Configure ospf-process metric

Use this attribute to inform the value of the metric for OSPFv3 default route.

Attribute Name: metric

Attribute Type: uint32

Default Value: 1

Attribute Range: 0-16777214

Attribute Name: metric-type

Attribute Type: enum (1|2)

Default Value: 2

Attribute Name: route-map

Attribute Type: string

Attribute Name: route-tag

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<address-family>
<ipv4>
<redistribute>
<ospf-processes>
<ospf-process>
   <ospfv2-process-id>0</ospfv2-process-id>
   <config>
      <ospfv2-process-id>0</ospfv2-process-id>
      <metric-type>2</metric-type> <!-- operation="delete"-->
      <route-map>WORD</route-map> <!-- operation="delete"-->
      <route-tag>0</route-tag> <!-- operation="delete"-->
```

```
    </config>
       <metric>0</metric> <!-- operation="delete"-->
</ospf-process>
</ospf-processes>
</redistribute>
</ipv4>
</address-family>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
redistribute ospf (<0-65535>|) { metric <0-16777214>| metric-type (1|2)| route-map
  WORD| tag <0-4294967295> }
```

Configure enabled

Use this attribute to distribute linkstate and TE Database to BGP.

This command is supported when following feature are enabled OSPFv3 BGP-LS for SRv6

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<bgp-link-state>
<distribute>
<config>
       </enabled><!-- operation="delete"-->
</config>
</distribute>
</bgp-link-state>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
distribute bgp-ls
```

Configure throttle timer

Use this attribute to set interval between processing LS DB.

This command is supported when following feature are enabled OSPFv3 BGP-LS for SRv6

Attribute Name: throttle-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 5-20

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<processes>
<process>
   <ospfv3-id>WORD</ospfv3-id>
   <config>
      <ospfv3-id>0</ospfv3-id>
   </config>
<bgp-link-state>
<distribute>
<config>
       </enabled><!-- operation="delete"-->
       <throttle-timer>5</throttle-timer> <!-- operation="delete"-->
</config>
</distribute>
</bgp-link-state>
</process>
</processes>
</ospfv3>
```

Command Syntax

```
distribute bgp-ls throttle <5-20>
```

Configure retransmission

OSPFv3 retransmission information

Attribute Name: retransmission

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Attribute Name: dist-ls

Attribute Type: empty

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   </bfd><!-- operation="delete"-->
   <events>abr</events> <!-- operation="delete"-->
   <ifsm>status</ifsm> <!-- operation="delete"-->
   <lsa>generate</lsa> <!-- operation="delete"-->
   <nfsm>status</nfsm> <!-- operation="delete"-->
   <nsm>interface</nsm> <!-- operation="delete"-->
   <route>spf</route> <!-- operation="delete"-->
   <rib>interface</rib> <!-- operation="delete"-->
   </dist-ls><!-- operation="delete"-->
   <packet-hello>send</packet-hello> <!-- operation="delete"-->
   <packet-dd>send</packet-dd> <!-- operation="delete"-->
   <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
   <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
   <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
   </retransmission><!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

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Command Syntax

```
debug ipv6 ospf
```

Configure bfd

OSPFv3 retransmission information

Attribute Name: retransmission

Attribute Type: uint8

Attribute Name: bfd

Attribute Type: empty

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Attribute Name: dist-ls

Attribute Type: empty

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   </bfd><!-- operation="delete"-->
   <events>abr</events> <!-- operation="delete"-->
   <ifsm>status</ifsm> <!-- operation="delete"-->
   <lsa>generate</lsa> <!-- operation="delete"-->
   <nfsm>status</nfsm> <!-- operation="delete"-->
   <nsm>interface</nsm> <!-- operation="delete"-->
   <route>spf</route> <!-- operation="delete"-->
   <rib>interface</rib> <!-- operation="delete"-->
   </dist-ls><!-- operation="delete"-->
   <packet-hello>send</packet-hello> <!-- operation="delete"-->
   <packet-dd>send</packet-dd> <!-- operation="delete"-->
   <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
   <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
   <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
   </retransmission><!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf all
```

Configure debug bfd

Bidirectional Forwarding Detection (BFD)

Attribute Name: bfd

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   </bfd><!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf bfd
```

Configure debug retransmission

OSPFv3 retransmission information

Attribute Name: retransmission

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   </retransmission><!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf retransmission
```

Configure dist ls

Use this attribute to enable OSPF distribute linkstate details debug.

Attribute Name: dist-ls

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   </dist-ls><!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf dist-ls
```

Configure events

OSPFv3 events information

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <events>abr</events> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa}|)
```

Configure ifsm

Use this attribute to enable OSPFv3 Interface State Machine debug

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <ifsm>status</ifsm> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf ifsm ({status|events|timers}|)
```

Configure lsa

Use this attribute to enable OSPFv3 Link State Advertisement debug

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <lsa>generate</lsa> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

Configure nfsm

Use this attribute to enable OSPFv3 Neighbor State Machine debug

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <nfsm>status</nfsm> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf nfsm ({status|events|timers}|)
```

Configure nsm

Use this attribute to enable OSPFv3 NSM information debug

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <nsm>interface</nsm> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf nsm ({interface|redistribute}|)
```

Configure rib

Use this attribute to enable OSPFv3 RIB information debug

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <rib>interface</rib> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf rib ({interface|redistribute}|)
```

Configure route

Use this attribute to enable OSPFv3 route information debug

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <route>spf</route> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf route ({spf|ia|ase|install}|)
```

Configure packet hello

OSPFv3 Hello

Attribute Name: packet-hello

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <packet-hello>send</packet-hello> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet hello ({send|recv|detail}|)
```

Configure packet dd

OSPFv3 Database Description

Attribute Name: packet-dd

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <packet-dd>send</packet-dd> <!-- operation="delete"-->
```

```
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet dd ({send|recv|detail}|)
```

Configure packet ls request

OSPFv3 Link State Request

Attribute Name: packet-ls-request

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <packet-ls-request>send</packet-ls-request> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet ls-request ({send|recv|detail}|)
```

Configure packet ls update

OSPFv3 Link State Update

Attribute Name: packet-ls-update

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <packet-ls-update>send</packet-ls-update> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet ls-update ({send|recv|detail}|)
```

Configure packet ls ack

OSPFv3 Link State Acknowledgment

Attribute Name: packet-ls-ack

Attribute Type: bits (send|recv|detail)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<debug>
<config>
   <packet-ls-ack>send</packet-ls-ack> <!-- operation="delete"-->
</config>
</debug>
</ospfv3>
```

Command Syntax

```
debug ipv6 ospf packet ls-ack ({send|recv|detail}|)
```

debug ipv6 ospf

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf
```

no debug ipv6 ospf

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf
```

debug ipv6 ospf all

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf all
```

no debug ipv6 ospf all

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-ospf-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf all
```

debug ipv6 ospf bfd

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-bfd-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf bfd
```

no debug ipv6 ospf bfd

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-bfd-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf bfd
```

debug ipv6 ospf retransmission

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-retransmission-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf retransmission
```

no debug ipv6 ospf retransmission

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-retransmission-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf retransmission
```

debug ipv6 ospf dist-ls

Netconf RPC payload

```
<ipi-ospfv3-debug_ospfv3-terminal-debug-dist-ls-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
debug ipv6 ospf dist-ls
```

no debug ipv6 ospf dist-ls

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-dist-ls-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3"/>
```

Command Syntax

```
no debug ipv6 ospf dist-ls
```

debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa}|)

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-events-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <events>abr</events>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-events-on>
```

Command Syntax

```
debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa}|)
```

no debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa}|)

Attribute Name: events

Attribute Type: bits (abr|asbr|vlink|os|router|nssa)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-events-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <events>abr</events>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-events-off>
```

Command Syntax

```
no debug ipv6 ospf events ({abr|asbr|vlink|os|router|nssa}|)
```

debug ipv6 ospf ifsm ({status|events|timers}|)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <ifsm>status</ifsm>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-on>
```

Command Syntax

```
    debug ipv6 ospf ifsm ({status|events|timers}|)
```

no debug ipv6 ospf ifsm ({status|events|timers}|)

Attribute Name: ifsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <ifsm>status</ifsm>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-ifsm-off>
```

Command Syntax

```
    no debug ipv6 ospf ifsm ({status|events|timers}|)
```

debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
       <lsa>generate</lsa>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-on>
```

Command Syntax

```
    debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

no debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)

Attribute Name: lsa

Attribute Type: bits (generate|flooding|install|refresh|maxage)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <lsa>generate</lsa>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-lsa-off>
```

Command Syntax

```
no debug ipv6 ospf lsa ({generate|flooding|install|refresh|maxage}|)
```

debug ipv6 ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <nfsm>status</nfsm>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-on>
```

Command Syntax

```
debug ipv6 ospf nfsm ({status|events|timers}|)
```

no debug ipv6 ospf nfsm ({status|events|timers}|)

Attribute Name: nfsm

Attribute Type: bits (status|events|timers)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <nfsm>status</nfsm>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-nfsm-off>
```

Command Syntax

```
no debug ipv6 ospf nfsm ({status|events|timers}|)
```

debug ipv6 ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
      <nsm>interface</nsm>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-on>
```

Command Syntax

```
debug ipv6 ospf nsm ({interface|redistribute}|)
```

no debug ipv6 ospf nsm ({interface|redistribute}|)

Attribute Name: nsm

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <nsm>interface</nsm>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-nsm-off>
```

Command Syntax

```
    no debug ipv6 ospf nsm ({interface|redistribute}|)
```

debug ipv6 ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <all>send</all>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-on>
```

Command Syntax

```
    debug ipv6 ospf packet ({send|recv|detail}|)
```

no debug ipv6 ospf packet ({send|recv|detail}|)

Attribute Name: all

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <all>send</all>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-all-off>
```

Command Syntax

```
    no debug ipv6 ospf packet ({send|recv|detail}|)
```

debug ipv6 ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <hello>send</hello>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-on>
```

Command Syntax

```
debug ipv6 ospf packet hello ({send|recv|detail}|)
```

no debug ipv6 ospf packet hello ({send|recv|detail}|)

Attribute Name: hello

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <hello>send</hello>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-hello-off>
```

Command Syntax

```
no debug ipv6 ospf packet hello ({send|recv|detail}|)
```

debug ipv6 ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <dd>send</dd>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-on>
```

Command Syntax

```
debug ipv6 ospf packet dd ({send|recv|detail}|)
```

no debug ipv6 ospf packet dd ({send|recv|detail}|)

Attribute Name: dd

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <dd>send</dd>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-dd-off>
```

Command Syntax

```
no debug ipv6 ospf packet dd ({send|recv|detail}|)
```

debug ipv6 ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <ls-request>send</ls-request>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-on>
```

Command Syntax

```
    debug ipv6 ospf packet ls-request ({send|recv|detail}|)
```

no debug ipv6 ospf packet ls-request ({send|recv|detail}|)

Attribute Name: ls-request

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <ls-request>send</ls-request>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-request-off>
```

Command Syntax

```
    no debug ipv6 ospf packet ls-request ({send|recv|detail}|)
```

debug ipv6 ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <ls-update>send</ls-update>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-on>
```

Command Syntax

```
    debug ipv6 ospf packet ls-update ({send|recv|detail}|)
```

no debug ipv6 ospf packet ls-update ({send|recv|detail}|)

Attribute Name: ls-update

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <ls-update>send</ls-update>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-update-off>
```

Command Syntax

```
no debug ipv6 ospf packet ls-update ({send|recv|detail}|)
```

debug ipv6 ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <ls-ack>send</ls-ack>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-on>
```

Command Syntax

```
debug ipv6 ospf packet ls-ack ({send|recv|detail}|)
```

no debug ipv6 ospf packet ls-ack ({send|recv|detail}|)

Attribute Name: ls-ack

Attribute Type: bits (send|recv|detail)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
      <ls-ack>send</ls-ack>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-packet-ls-ack-off>
```

Command Syntax

```
no debug ipv6 ospf packet ls-ack ({send|recv|detail}|)
```

debug ipv6 ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
      <ipi-ospfv3-debug_ospfv3-terminal-debug-rib-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
      <rib>interface</rib>
      </ipi-ospfv3-debug_ospfv3-terminal-debug-rib-on>
```

Command Syntax

```
debug ipv6 ospf rib ({interface|redistribute}|)
```

no debug ipv6 ospf rib ({interface|redistribute}|)

Attribute Name: rib

Attribute Type: bits (interface|redistribute)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-rib-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <rib>interface</rib>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-rib-off>
```

Command Syntax

```
    no debug ipv6 ospf rib ({interface|redistribute}|)
```

debug ipv6 ospf route ({spf|ia|ase|install}|)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-route-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <route>spf</route>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-route-on>
```

Command Syntax

```
    debug ipv6 ospf route ({spf|ia|ase|install}|)
```

no debug ipv6 ospf route ({spf|ia|ase|install}|)

Attribute Name: route

Attribute Type: bits (spf|ia|ase|install)

Netconf RPC payload

```
       <ipi-ospfv3-debug_ospfv3-terminal-debug-route-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
       <route>spf</route>
       </ipi-ospfv3-debug_ospfv3-terminal-debug-route-off>
```

Command Syntax

```
    no debug ipv6 ospf route ({spf|ia|ase|install}|)
```

clear ipv6 ospf (WORD|) process

Attribute Name: process-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-ospfv3-global_ospfv3-clear-process xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-ospfv3">
       <process-id>WORD</process-id>
       </ipi-ospfv3-global_ospfv3-clear-process>
```

Command Syntax

```
clear ipv6 ospf (WORD|) process
```

restart ipv6 ospf graceful (grace-period <2-1800>|)

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 2-1800

Netconf RPC payload

```
<ipi-ospfv3-global_ospfv3-graceful-restart xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ospfv3">
<grace-period>2</grace-period>
</ipi-ospfv3-global_ospfv3-graceful-restart>
```

Command Syntax

```
restart ipv6 ospf graceful (grace-period <2-1800>|)
```

snmp restart ospf6

Netconf RPC payload

```
<ipi-ospfv3-global_ospfv3-snmp-restart xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-ospfv3"/>
```

Command Syntax

```
snmp restart ospf6
```

IPI-OSPFV3-INTERFACE

Configure shutdown

Use this attribute to shutdown OSPFV3 on the interface

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
<interface-name>WORD</interface-name>
<config>
<interface-name>WORD</interface-name>
</config>
</shutdown><!-- operation="delete"-->
</interface>
```

```
</interfaces>
</ospfv3>
```

Command Syntax

```
ospfv3 shutdown
```

Configure enable link lsa suppression

Use this attribute to enable or disable link LSA (type 8) suppression. A type 8 LSA gives information about link-local addresses and a list of IPv6 addresses on the link. If enabled and the interface type is not broadcast or NBMA, the router does not send type 8 link LSAs. This implies that other routers on the link determine the router's next-hop address using a mechanism other than the type 8 link LSA. This feature is implicitly disabled if the interface type is broadcast or NBMA.

Attribute Name: enable-link-lsa-suppression

Attribute Type: uint8

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
         </enable-link-lsa-suppression><!-- operation="delete"-->
   </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf link-lsa-suppression enable (instance-id (<0-31>|<64-95>)|)
```

Configure enable bfd

Use this attribute to enable Bidirectional Forwarding Detection (BFD)

Attribute Name: enable-bfd

Attribute Type: boolean

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
```

```
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
         <enable-bfd>true</enable-bfd> <!-- operation="delete"-->
   </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
 ipv6 ospf bfd (instance-id (<0-31>|<64-95>)|)
```

Configure interface name

Use this attribute to enable Bidirectional Forwarding Detection (BFD)

Attribute Name: enable-bfd

Attribute Type: boolean

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
         <enable-bfd>true</enable-bfd> <!-- operation="delete"-->
   </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf bfd disable (instance-id (<0-31>|<64-95>)|)
```

Configure network type

Use this attribute to set an OSPFv3 network type.

Attribute Name: network-type

Attribute Type: enum (point-to-point|broadcast|non-broadcast|point-to-multipoint|point-to-multipoint non-broadcast)

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
         <network-type>point-to-point</network-type> <!-- operation="delete"-->
   </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf network (point-to-point|broadcast|non-broadcast|point-to-
  multipoint|point-to-multipoint non-broadcast) (instance-id (<0-31>|<64-95>)|)
```

Configure cost

Use this attribute to specify the link-cost described in LSAs.The cost (or metric) of an interface in OSPF indicates the overhead required to send packets across a certain interface. The value is taken to describe Link State information, and used for route calculation.

Attribute Name: cost

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
```

```
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
         <cost>1</cost> <!-- operation="delete"-->
   </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf cost <1-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure priority

Use this attribute to set the router priority for determining the designated router (DR) for the network. A router with the higher router priority becomes the DR. If the priority is the same for two routers, the router with the higher router ID takes precedence. Only routers with a nonzero priority value are eligible to become the designated or backup designated router. Configure router priority for broadcast or NBMA networks only and not for point-to-point networks.

Attribute Name: priority

Attribute Type: uint8

Default Value: 1

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
         <priority>0</priority> <!-- operation="delete"-->
   </instance>
</instances>
```

```
   </interface>
   </interfaces>
   </ospfv3>
```

Command Syntax

```
    ipv6 ospf priority <0-255> (instance-id (<0-31>|<64-95>)|)
```

Configure traffic engineering metric

Use this attribute to set the traffic engineering metric for an interface. The traffic engineering metric is used in OSPF-TE Link State Advertisements. If the traffic engineering metric is not set, the ipv6 ospf cost value for an interface is used in OSPF-TE Link State Advertisements.

Attribute Name: traffic-engineering-metric

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
   <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
   <interfaces>
   <interface>
      <interface-name>WORD</interface-name>
      <config>
         <interface-name>WORD</interface-name>
      </config>
      <instances>
      <instance>
         <instance-id>0</instance-id>
         <config>
            <instance-id>0</instance-id>
         </config>
            <traffic-engineering-metric>1</traffic-engineering-metric> <!--
operation="delete"-->
      </instance>
   </instances>
   </interface>
   </interfaces>
   </ospfv3>
```

Command Syntax

```
    ipv6 te-metric <1-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure mtu

Use this attribute to set MTU size for OSPFv3 to construct packets based on this value. Whenever OSPFv3 constructs packets, it uses interface MTU size as Maximum IP packet size. this attribute forces OSPFv3 to use the specified value overriding the actual interface MTU size.

Attribute Name: mtu

Attribute Type: uint16

Default Value: 1500

Attribute Range: 1280-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
         <mtu>1280</mtu> <!-- operation="delete"-->
   </instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
 ipv6 ospf mtu <1280-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure mtu ignore

Use this attribute to ignore the MTU size during DD (Database Description) exchange. By default, during the DD exchange process, OSPFv3 checks the MTU size described in DD packets received from its neighbor, and if the MTU size does not match the interface MTU, the neighbor adjacency is not established. Using this command makes OSPFv3 ignore this check and allows establishing of adjacency regardless of MTU size in the DD packet.

Attribute Name: mtu-ignore

Attribute Type: empty

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
```

```
          </config>
             </mtu-ignore><!-- operation="delete"-->
       </instance>
   </instances>
   </interface>
   </interfaces>
   </ospfv3>
```

Command Syntax

```
    ipv6 ospf mtu-ignore (instance-id (<0-31>|<64-95>)|)
```

Configure authentication cryptomap

Use this attribute to set the Crypto-map used to setup IPsec SA.

Attribute Name: authentication-cryptomap

Attribute Type: string

Netconf edit-config payload

```
   <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
   <interfaces>
   <interface>
      <interface-name>WORD</interface-name>
      <config>
         <interface-name>WORD</interface-name>
      </config>
      <instances>
      <instance>
         <instance-id>0</instance-id>
         <config>
            <instance-id>0</instance-id>
         </config>
            <authentication-cryptomap>WORD</authentication-cryptomap> <!--
operation="delete"-->
      </instance>
   </instances>
   </interface>
   </interfaces>
   </ospfv3>
```

Command Syntax

```
    ipv6 ospf (instance-id (<0-31>|<64-95>)|) authentication cryptomap WORD
```

Configure area id

Use this attribute to enable OSPFv3 routing on an interface. Specify the process ID to configure multiple instances of OSPFv3. When running a single instance of OSPFv3, you do not need to specify a instance ID. When OSPFv3 receives a packet, it checks if the instance ID in the packet matches the instance ID of the receiving interface.

Attribute Name: area-id

Attribute Type: union

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
      <routers>
      <router> <!-- operation="delete"-->
         <area-id>OSPFV3_AREA_T</area-id>
         <config>
            <area-id>OSPFV3_AREA_T</area-id>
            <ospfv3-id>WORD</ospfv3-id>
         </config>
            <ospfv3-id>WORD</ospfv3-id>
      </router>
   </routers>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 router ospf area (A.B.C.D|<0-4294967295>) (instance-id (<0-31>|<64-95>)|)
```

Configure ospfv3 id

Use this attribute to enable OSPFv3 routing on an interface. Specify the process ID to configure multiple instances of OSPFv3. When running a single instance of OSPFv3, you do not need to specify a instance ID. When OSPFv3 receives a packet, it checks if the instance ID in the packet matches the instance ID of the receiving interface.

Attribute Name: area-id

Attribute Type: uint32

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
```

```
        <interface-name>WORD</interface-name>
      </config>
      <instances>
      <instance>
         <instance-id>0</instance-id>
         <config>
            <instance-id>0</instance-id>
         </config>
         <routers>
         <router>
            <area-id>OSPFV3_AREA_T</area-id>
            <config>
               <area-id>OSPFV3_AREA_T</area-id>
               <ospfv3-id>WORD</ospfv3-id>
            </config>
               <ospfv3-id>WORD</ospfv3-id>
         </router>
      </routers>
   </instance>
   </instances>
   </interface>
   </interfaces>
   </ospfv3>
```

Command Syntax

```
ipv6 router ospf tag WORD area (instance-id (<0-31>|<64-95>)|)
```

Configure instance id

Use this attribute to enable OSPFv3 routing on an interface. Specify the process ID to configure multiple instances of OSPFv3. When running a single instance of OSPFv3, you do not need to specify a instance ID. When OSPFv3 receives a packet, it checks if the instance ID in the packet matches the instance ID of the receiving interface.

Attribute Name: ospfv3-id

Attribute Type: string

Netconf edit-config payload

```
   <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
   <interfaces>
   <interface>
      <interface-name>WORD</interface-name>
      <config>
         <interface-name>WORD</interface-name>
      </config>
      <instances>
      <instance>
         <instance-id>0</instance-id>
         <config>
            <instance-id>0</instance-id>
         </config>
```

```
        <routers>
        <router>
           <area-id>OSPFV3_AREA_T</area-id>
           <config>
              <area-id>OSPFV3_AREA_T</area-id>
              <ospfv3-id>WORD</ospfv3-id>
           </config>
              <ospfv3-id>WORD</ospfv3-id>
        </router>
     </routers>
  </instance>
  </instances>
  </interface>
  </interfaces>
  </ospfv3>
```

Command Syntax

```
ipv6 router ospf area tag WORD (instance-id (<0-31>|<64-95>)|)
```

Configure dead interval

Use this attribute to set the amount of time that the router waits to receive an OSPF hello packet from the neighbor before declaring the neighbor down

Attribute Name: dead-interval

Attribute Type: uint16

Default Value: 40

Attribute Range: 1-65535

Netconf edit-config payload

```
  <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
  <interfaces>
  <interface>
     <interface-name>WORD</interface-name>
     <config>
        <interface-name>WORD</interface-name>
     </config>
     <instances>
     <instance>
        <instance-id>0</instance-id>
        <config>
           <instance-id>0</instance-id>
        </config>
        <timers>
        <config>
               <dead-interval>1</dead-interval> <!-- operation="delete"-->
        </config>
     </timers>
  </instance>
```

```
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf dead-interval <1-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure hello interval

Use this attribute to set the interval between hello packets.

Attribute Name: hello-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
      <timers>
      <config>
             <hello-interval>1</hello-interval> <!-- operation="delete"-->
      </config>
   </timers>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf hello-interval <1-65535> (instance-id (<0-31>|<64-95>)|)
```

Configure transmission delay

Use this attribute to set the estimated time it takes to transmit a Link State Update packet over the interface.

Attribute Name: transmission-delay

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
      <timers>
      <config>
            <transmission-delay>1</transmission-delay> <!-- operation="delete"-->
      </config>
   </timers>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf transmit-delay <1-1800> (instance-id (<0-31>|<64-95>)|)
```

Configure retransmission interval

Use this attibute to set the interval between retransmission of Link State Update packets.

Attribute Name: retransmission-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1800

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
```

```
       <instance>
          <instance-id>0</instance-id>
          <config>
             <instance-id>0</instance-id>
          </config>
          <timers>
          <config>
                <retransmission-interval>1</retransmission-interval> <!--
operation="delete"-->
          </config>
       </timers>
    </instance>
    </instances>
    </interface>
    </interfaces>
    </ospfv3>
```

Command Syntax

```
     ipv6 ospf retransmit-interval <1-1800> (instance-id (<0-31>|<64-95>)|)
```

Configure address

Static neighbor IPv6 link-local address

Attribute Name: address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
    <ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
    <interfaces>
    <interface>
       <interface-name>WORD</interface-name>
       <config>
          <interface-name>WORD</interface-name>
       </config>
       <instances>
       <instance>
          <instance-id>0</instance-id>
          <config>
             <instance-id>0</instance-id>
          </config>
          <neighbors-static>
          <neighbor-static> <!-- operation="delete"-->
             <address>X:X::X:X</address>
             <config>
                <address>X:X::X:X</address>
             </config>
          </neighbor-static>
       </neighbors-static>
    </instance>
```

```
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf neighbor X:X::X:X (instance-id (<0-31>|<64-95>)|)
```

Configure poll interval

Use this attribute to set the dead neighbor polling interval in seconds. It is recommended to set this value much higher than the hello interval. The default is 120 seconds.

Attribute Name: poll-interval

Attribute Type: uint32

Default Value: 120

Attribute Range: 0-4294967295

Attribute Name: cost

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Attribute Name: priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-255

Netconf edit-config payload

```
<ospfv3 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ospfv3">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <instances>
   <instance>
      <instance-id>0</instance-id>
      <config>
         <instance-id>0</instance-id>
      </config>
      <neighbors-static>
      <neighbor-static>
         <address>X:X::X:X</address>
         <config>
            <address>X:X::X:X</address>
            <cost>1</cost> <!-- operation="delete"-->
```

```
            <priority>0</priority> <!-- operation="delete"-->
          </config>
            <poll-interval>0</poll-interval> <!-- operation="delete"-->
       </neighbor-static>
    </neighbors-static>
</instance>
</instances>
</interface>
</interfaces>
</ospfv3>
```

Command Syntax

```
ipv6 ospf neighbor X:X::X:X { cost <1-65535>| priority <0-255>| poll-interval <0-
  4294967295> } (instance-id (<0-31>|<64-95>)|)
```

IPI-BGP

Configure enable aggregate nexthop

Use this attribute to set the BGP option to perform aggregation only when next-hop matches the specified IP address.

Attribute Name: enable-aggregate-nexthop

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   </enable-aggregate-nexthop><!-- operation="delete"-->
</config>
</global>
</bgp>
```

Command Syntax

```
bgp aggregate-nexthop-check
```

Configure enable path select

Use this attribute to set RFC 1771 compatible path selection

Attribute Name: enable-path-select

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   </enable-path-select><!-- operation="delete"-->
```

```
</config>
</global>
</bgp>
```

Command Syntax

```
bgp rfc1771-path-select
```

Configure disable rfc7606 error handling

Use this attribute to Disable RFC7606 revised error handling.

Attribute Name: disable-rfc7606-error-handling

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   </disable-rfc7606-error-handling><!-- operation="delete"-->
</config>
</global>
</bgp>
```

Command Syntax

```
bgp disable-rfc7606-error-handling
```

Configure enable bogon filtering

Use this attribute to enable BOGON filtering

Attribute Name: enable-bogon-filtering

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   </enable-bogon-filtering><!-- operation="delete"-->
</config>
</global>
</bgp>
```

Command Syntax

```
bgp enable-bogon-filtering
```

Configure enable extended asn capability

Use this attribute to configure a BGP router to send 4-octet ASN capabilities. If attempting to change the AS capability from 2 to 4 or 4 to 2, a prompt occurs to remove the VRF configuration (if it exists), and reconfiguration is required,because the route distinguisher (RD) configuration would have been created with the current (2 octet or 4

octet) capability, and must be reconfigured before attempting to change the capability. While loading from a saved configuration with AS4 capability and BGP VRF configuration, the capability will not be changed because of the above described reason.

Attribute Name: enable-extended-asn-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   </enable-extended-asn-capability><!-- operation="delete"-->
</config>
</global>
</bgp>
```

Command Syntax

```
bgp extended-asn-cap
```

Configure enable nexthop tracking

Use this attribute to enable nexthop address tracking. Nexthop address tracking is an event-driven notification system that monitors the status of routes installed in the Routing Information Base (RIB) and reports nexthop changes that affect internal BGP (iBGP) or external BGP (eBGP) prefixes directly to the BGP process. This improves the overall BGP convergence time, by allowing BGP to respond rapidly to nexthop changes for routes installed in the RIB. If nexthop tracking is enabled after certain routes are learned, the registration of all nexthops for selected BGP routes is done after the nexthop tracking feature is enabled. If nexthop tracking is disabled, and if there are still some selected BGP routes, BGP de-registers the nexthops of all selected BGP routes from NSM.

Attribute Name: enable-nexthop-tracking

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   </enable-nexthop-tracking><!-- operation="delete"-->
</config>
</global>
</bgp>
```

Command Syntax

```
bgp nexthop-trigger enable
```

Configure nexthop tracking delay

Use this attribute to set the delay time for nexthop address tracking. This attribute configures the delayinterval between routing table walks for nexthop delay tracking, after which BGP does a routing table scan on receiving a nexthop change trigger from NSM. The time period determines how long BGP waits before it walks the full BGP table to determine which prefixes are affected by the nexthop changes, after it receives the trigger from NSM about one or more nexthop changes.

Attribute Name: nexthop-tracking-delay

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   <nexthop-tracking-delay>1</nexthop-tracking-delay> <!-- operation="delete"-->
</config>
</global>
</bgp>
```

Command Syntax

```
bgp nexthop-trigger delay <1-100>
```

Configure enable rfc 1771 strict origin

Use this attribute to set the origin path attribute to IGP when the origin is a protocol such as RIP, OSPF,or ISIS as specified in RFC 1771. Otherwise, the origin is always set to incomplete which is the industry standard.

Attribute Name: enable-rfc-1771-strict-origin

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<config>
   </enable-rfc-1771-strict-origin><!-- operation="delete"-->
</config>
</global>
</bgp>
```

Command Syntax

```
bgp rfc1771-strict
```

Configure action name

Use this attribute to specify a standard community list (1 to 99) that specifies BGP community attributes.

Attribute Name: action-name

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<numbered-lists>
```

```
<numbered-list>
   <standard-number>1</standard-number>
   <config>
      <standard-number>1</standard-number>
   </config>
<action-for-any>
<config>
       <action-name>deny</action-name>
</config>
</action-for-any>
</numbered-list>
</numbered-lists>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip community-list <1-99> (deny|permit)
```

Configure action standard number

Use this attribute to specify a standard community list (1 to 99) that specifies BGP community attributes.

Attribute Name: action-standard-number

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<numbered-lists>
<numbered-list>
   <standard-number>1</standard-number>
   <config>
      <standard-number>1</standard-number>
   </config>
<action-list-values>
<action-list-value> <!-- operation="delete"-->
   <standard-number-value>AA:NN</standard-number-value>
   <config>
      <standard-number-value>WORD</standard-number-value>
      <action-standard-number>deny</action-standard-number>
   </config>
      <action-standard-number>deny</action-standard-number>
</action-list-value>
</action-list-values>
</numbered-list>
</numbered-lists>
</community-lists>
</global>
```

```
</bgp>
```

Command Syntax

```
ip community-list <1-99> (deny|permit) ((AA:NN|internet|local-AS|no-advertise|no-
  export))
```

Configure list type

Use this attribute to specify a standard community list (1 to 99) that specifies BGP community attributes.

Attribute Name: action-name

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<standards>
<standard>
   <name>WORD</name>
   <config>
      <name>WORD</name>
      <list-type>standard</list-type>
   </config>
   <list-type>standard</list-type>
<action-for-any>
<config>
      <action-name>deny</action-name>
</config>
</action-for-any>
</standard>
</standards>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip community-list (standard) WORD (deny|permit)
```

Configure action name standard

Use the community-lists to specify BGP community attributes. The community attribute is used for implementing policy routing. It is an optional, transitive attribute and facilitates transfer of local policies through different autonomous systems. It includes community values that are 32 bits long. There are two kinds of community-lists: expanded and standard. The standard community-list defines the community attributes in a specified format without regular expressions. The expanded community-list defines the community attributes with regular expressions.Use this attribute to add a standard community-list entry. The standard community-list is compiled into binary format and is directly compared with the BGP communities attribute in the BGP updates. The comparison is faster than the expanded community-list. Any community value that does not match the standard community value is automatically treated as expanded.

Attribute Name: action-name-standard

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<standards>
<standard>
    <name>WORD</name>
    <config>
        <name>WORD</name>
        <list-type>standard</list-type>
    </config>
    <list-type>standard</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
    <community-value-standard>AA:NN</community-value-standard>
    <config>
        <community-value-standard>WORD</community-value-standard>
        <action-name-standard>deny</action-name-standard>
    </config>
        <action-name-standard>deny</action-name-standard>
</action-value>
</action-values>
</standard>
</standards>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip community-list WORD (deny|permit) ((AA:NN|internet|local-AS|no-advertise|no-
  export))
```

Configure name

Use the community-lists to specify BGP community attributes. The community attribute is used for implementing policy routing. It is an optional, transitive attribute and facilitates transfer of local policies through different autonomous systems. It includes community values that are 32 bits long. There are two kinds of community-lists: expanded and standard. The standard community-list defines the community attributes in a specified format without regular expressions. The expanded community-list defines the community attributes with regular expressions.Use this attribute to add a standard community-list entry. The standard community-list is compiled into binary format and is directly compared with the BGP communities attribute in the BGP updates. The comparison is faster than the expanded community-list. Any community value that does not match the standard community value is automatically treated as expanded.

Attribute Name: action-name-standard

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<standards>
<standard>
    <name>WORD</name>
    <config>
        <name>WORD</name>
        <list-type>standard</list-type>
    </config>
    <list-type>standard</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
    <community-value-standard>AA:NN</community-value-standard>
    <config>
        <community-value-standard>WORD</community-value-standard>
        <action-name-standard>deny</action-name-standard>
    </config>
        <action-name-standard>deny</action-name-standard>
</action-value>
</action-values>
</standard>
</standards>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip community-list (standard) WORD (deny|permit) ((AA:NN|internet|local-AS|no-
  advertise|no-export))
```

Configure action expanded

Community list extended type

Attribute Name: action-expanded

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<expanded-lists>
<expanded-list>
    <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
    <config>
        <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
        <list-type>expanded</list-type>
    </config>
```

```
    <list-type>expanded</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
    <regular-expression-list>LINE</regular-expression-list>
    <config>
        <regular-expression-list>LINE</regular-expression-list>
        <action-expanded>deny</action-expanded>
    </config>
        <action-expanded>deny</action-expanded>
</action-value>
</action-values>
</expanded-list>
</expanded-lists>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip community-list <100-500> (deny|permit) LINE
```

Configure expanded type

Community list extended type

Attribute Name: action-expanded

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<expanded-lists>
<expanded-list>
    <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
    <config>
        <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
        <list-type>expanded</list-type>
    </config>
    <list-type>expanded</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
    <regular-expression-list>LINE</regular-expression-list>
    <config>
        <regular-expression-list>LINE</regular-expression-list>
        <action-expanded>deny</action-expanded>
    </config>
        <action-expanded>deny</action-expanded>
</action-value>
</action-values>
</expanded-list>
```

```
</expanded-lists>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip community-list (expanded) WORD (deny|permit) LINE
```

Configure extended action number

Extended Community list type

Attribute Name: extended-action-number

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<extended-community>
<numbered-lists>
<numbered-list>
   <standard-number>1</standard-number>
   <config>
      <standard-number>1</standard-number>
   </config>
<action-values>
<action-value> <!-- operation="delete"-->
   <extended-value>AA:NN</extended-value>
   <config>
      <extended-value>WORD</extended-value>
      <extended-route-target-soo>rt</extended-route-target-soo>
      <extended-action-number>deny</extended-action-number>
   </config>
      <extended-route-target-soo>rt</extended-route-target-soo>
      <extended-action-number>deny</extended-action-number>
</action-value>
</action-values>
</numbered-list>
</numbered-lists>
</extended-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip extcommunity-list <1-99> (deny|permit) (rt|soo) AA:NN
```

Configure extended action

extcommunity Community list type

Attribute Name: extended-action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<extended-community>
<standards>
<standard>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<action-values>
<action-value> <!-- operation="delete"-->
    <value>AA:NN</value>
    <config>
        <value>WORD</value>
        <route-target-soo>rt</route-target-soo>
        <extended-action>deny</extended-action>
    </config>
        <route-target-soo>rt</route-target-soo>
        <extended-action>deny</extended-action>
</action-value>
</action-values>
</standard>
</standards>
</extended-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip extcommunity-list standard WORD (deny|permit) (rt|soo) AA:NN
```

Configure action

extcommunity Extended Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
```

```
<community-lists>
<extended-community>
<expanded-lists>
<expanded-list>
   <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
   <config>
      <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
      <list-type>expanded</list-type>
   </config>
   <list-type>expanded</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
   <value>LINE</value>
   <config>
      <value>1</value>
      <action>deny</action>
   </config>
      <action>deny</action>
</action-value>
</action-values>
</expanded-list>
</expanded-lists>
</extended-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip extcommunity-list <100-500> (deny|permit) LINE
```

Configure value

extcommunity Extended Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<extended-community>
<expanded-lists>
<expanded-list>
   <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
   <config>
      <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
      <list-type>expanded</list-type>
   </config>
   <list-type>expanded</list-type>
```

```
<action-values>
<action-value> <!-- operation="delete"-->
   <value>LINE</value>
   <config>
      <value>1</value>
      <action>deny</action>
   </config>
      <action>deny</action>
</action-value>
</action-values>
</expanded-list>
</expanded-lists>
</extended-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip extcommunity-list (expanded) WORD (deny|permit) LINE
```

Configure large action number

Large Community list type

Attribute Name: large-action-number

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<large-community>
<numbered-lists>
<numbered-list>
   <standard-number>1</standard-number>
   <config>
      <standard-number>1</standard-number>
   </config>
<action-values>
<action-value> <!-- operation="delete"-->
   <large-value>LINE</large-value>
   <config>
      <large-value>LINE</large-value>
      <large-action-number>deny</large-action-number>
   </config>
      <large-action-number>deny</large-action-number>
</action-value>
</action-values>
</numbered-list>
</numbered-lists>
```

```
</large-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip large-community-list <1-99> (deny|permit) [AAaa:NNnn:ZZzz]
```

Configure standard type

large-community Large Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<large-community>
<standard-lists>
<standard-list>
   <standard-type>BGP_STANDARD_LIST_TYPE_T</standard-type>
   <config>
      <standard-type>BGP_STANDARD_LIST_TYPE_T</standard-type>
      <list-type>standard</list-type>
   </config>
   <list-type>standard</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
   <value>LINE</value>
   <config>
      <value>LINE</value>
      <action>deny</action>
   </config>
      <action>deny</action>
</action-value>
</action-values>
</standard-list>
</standard-lists>
</large-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip large-community-list (standard) WORD (deny|permit) [AAaa:NNnn:ZZzz]
```

Configure action-values action

large-community Large Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<community-lists>
<large-community>
<expanded-lists>
<expanded-list>
   <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
   <config>
      <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
      <list-type>expanded</list-type>
   </config>
   <list-type>expanded</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
   <value>LINE</value>
   <config>
      <value>LINE</value>
      <action>deny</action>
   </config>
      <action>deny</action>
</action-value>
</action-values>
</expanded-list>
</expanded-lists>
</large-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip large-community-list <100-500> (deny|permit) LINE
```

Configure action-values action

large-community Large Community type

Attribute Name: action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
```

```
<community-lists>
<large-community>
<expanded-lists>
<expanded-list>
   <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
   <config>
      <expanded-type>BGP_EXPANDED_LIST_TYPE_T</expanded-type>
      <list-type>expanded</list-type>
   </config>
   <list-type>expanded</list-type>
<action-values>
<action-value> <!-- operation="delete"-->
   <value>LINE</value>
   <config>
      <value>LINE</value>
      <action>deny</action>
   </config>
      <action>deny</action>
</action-value>
</action-values>
</expanded-list>
</expanded-lists>
</large-community>
</community-lists>
</global>
</bgp>
```

Command Syntax

```
ip large-community-list (expanded) WORD (deny|permit) LINE
```

Configure access list name

Use this attribute to define a BGP Autonomous System (AS) path access list. A named community list is a filter based on regular expressions. If the regular expression matches the specified string representing the AS path of the route, then the permit or deny condition applies. Use this attribute to define the BGP access list globally.

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<as-path-access-lists>
<as-path-access-list> <!-- operation="delete"-->
   <access-list-regular-expression>LINE</access-list-regular-expression>
   <config>
      <access-list-regular-expression>LINE</access-list-regular-expression>
      <access-list-action>deny</access-list-action>
      <access-list-name>WORD</access-list-name>
   </config>
```

```
      <access-list-action>deny</access-list-action>
      <access-list-name>WORD</access-list-name>
   </as-path-access-list>
   </as-path-access-lists>
   </global>
   </bgp>
```

Command Syntax

```
ip as-path access-list WORD (deny|permit) LINE
```

Configure address family name

Use this attribute to specify address family name

This command is supported when following feature are enabled MPLS feature enabled

Attribute Name: address-family-name

Attribute Type: enum (all-afs|vpnv4|vpnv6)

Attribute Name: label-alloc-type

Attribute Type: enum (per-prefix|per-vrf)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <global>
   <mpls-l3vpn-label-modes>
   <mpls-l3vpn-label-mode> <!-- operation="delete"-->
      <vrf-name>0</vrf-name>
      <config>
         <vrf-name>0</vrf-name>
         <address-family-name>all-afs</address-family-name>
         <label-alloc-type>per-prefix</label-alloc-type>
      </config>
      <address-family-name>all-afs</address-family-name>
   </mpls-l3vpn-label-mode>
   </mpls-l3vpn-label-modes>
   </global>
   </bgp>
```

Command Syntax

```
mpls label mode (all-afs|vpnv4|vpnv6) all-vrfs (per-prefix|per-vrf)
```

Configure vrf name

Use this attribute to specify address family name

This command is supported when following feature are enabled MPLS feature enabled

Attribute Name: address-family-name

Attribute Type: enum (all-afs|vpnv4|vpnv6)

Attribute Name: label-alloc-type

Attribute Type: enum (per-prefix|per-vrf)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<mpls-l3vpn-label-modes>
<mpls-l3vpn-label-mode> <!-- operation="delete"-->
   <vrf-name>BGP_VRF_TYPE_T</vrf-name>
   <config>
      <vrf-name>0</vrf-name>
      <address-family-name>all-afs</address-family-name>
      <label-alloc-type>per-prefix</label-alloc-type>
   </config>
   <address-family-name>all-afs</address-family-name>
</mpls-l3vpn-label-mode>
</mpls-l3vpn-label-modes>
</global>
</bgp>
```

Command Syntax

```
mpls label mode (all-afs|vpnv4|vpnv6) vrf WORD (per-prefix|per-vrf)
```

Configure enable per prefix label mode

Use this attribute to configure mpls label mode

This command is supported when following feature are enabled MPLS feature enabled,bgp 6PE feature enabled

Attribute Name: enable-per-prefix-label-mode

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<mpls-6pe>
<config>
   </enable-per-prefix-label-mode><!-- operation="delete"-->
</config>
</mpls-6pe>
</global>
</bgp>
```

Command Syntax

```
mpls label mode 6pe per-prefix
```

Configure options

Use this attribute to enable all BGP troubleshooting functions. Use this attribute without any parameters to turn on normal bgp debug information.

Attribute Name: options

Attribute Type: bits (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<global>
<debug>
<config>
   <options>all</options> <!-- operation="delete"-->
</config>
</debug>
</global>
</bgp>
```

Command Syntax

```
debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates
  out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-
  scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-
  evpn-info-oplog|disable-all-info-oplog|rpki)
```

restart bgp graceful

Netconf RPC payload

```
<bgp-graceful-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
restart bgp graceful
```

clear bgp statistics

Netconf RPC payload

```
<clear-bgp-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
clear bgp statistics
```

snmp restart bgp

Netconf RPC payload

```
<bgp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
snmp restart bgp
```

debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Netconf RPC payload

```
<bgp-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<terminal-debug-options>all</terminal-debug-options>
</bgp-debug-on>
```

Command Syntax

```
debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates
  out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-
  scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-
  evpn-info-oplog|disable-all-info-oplog|rpki)
```

no debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-evpn-info-oplog|disable-all-info-oplog|rpki)

Netconf RPC payload

```
<bgp-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<terminal-debug-options>all</terminal-debug-options>
</bgp-debug-off>
```

Command Syntax

```
no debug bgp (all|nht|nsm|fsm|events|filters|keepalives|updates in|updates
  out|dampening|bfd|mpls|vpls|link-state|rib|srv6|normal|add-path|adj-out|route-
  scan|packet-send|packet-received|soft-clear|route-process|evpn|peer|disable-
  evpn-info-oplog|disable-all-info-oplog|rpki)
```

no debug all bgp

Netconf RPC payload

```
<bgp-all-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp"/>
```

Command Syntax

```
no debug all bgp
```

IPI-BGP-INSTANCE

Configure no external fail over

Use this attribute to reset a BGP session immediately, if the interface used for BGP connection goes down.

Attribute Name: no-external-fail-over

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </no-external-fail-over><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no bgp fast-external-failover
```

Configure no best path tie break

Use this attribute to always select a preferred older route even when the bestpathCompareRouterId attribute is configured

Attribute Name: no-best-path-tie-break

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </no-best-path-tie-break><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no bgp bestpath tie-break-on-age
```

Configure inbound route filter disable

Use this attribute to enable the MPLS (Multiprotocol Label Switching) VPN/BGP inbound route filter. This attribute is used to control the installation of routing information into the BGP table. When a router runs MPLS VPN/BGP PE, it exchanges routing information with a routing distinguisher. By default, routing information that does not match the configured routing distinguisher value is not installed. When the local box has two VRFs where each routing distinguisher value is 10:100 and 20:200, routing information with routing distinguisher 10:200 is not installed into BGP table.

Attribute Name: inbound-route-filter-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </inbound-route-filter-disable><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no bgp inbound-route-filter
```

Configure external route leak disable

Use this attribute to disable external route leak.

Attribute Name: external-route-leak-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </external-route-leak-disable><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no bgp external-route-leak
```

Configure no client route reflection

Use this attribute to configure routers as route reflectors. Route reflectors are used when all Interior Border Gateway Protocol (iBGP) speakers are not fully meshed. If the clients are fully meshed the route reflector is not required

Attribute Name: no-client-route-reflection

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </no-client-route-reflection><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no bgp client-to-client reflection
```

Configure med type

Use this attribute to specify two MED (Multi Exit Discriminator) attributes, confed and missing-as-worst. The confed attribute enables MED comparison along paths learned from confederation peers. The MEDs are compared only if there is no external Autonomous System (an AS not within the confederation) in the path. If there is an external autonomous system in the path, the MED comparison is not made. The missing-as-worst to consider a missing MED attribute in a path as having a value of infinity, making the path without a MED value the least desirable path. If missing-as-worst is disabled, the missing MED is assigned the value of 0,making the path with the missing MED attribute the best path.

Attribute Name: med-type

Attribute Type: bits (confed|missing-as-worst|remove-recv-med|remove-send-med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      <med-type>3</med-type> <!-- operation="delete"-->
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath med (confed) missing-as-worst
```

Configure bgp as

Use this attribute to specify two MED (Multi Exit Discriminator) attributes, confed and missing-as-worst. The confed attribute enables MED comparison along paths learned from confederation peers. The MEDs are compared only if there is no external Autonomous System (an AS not within the confederation) in the path. If there is an external autonomous system in the path, the MED comparison is not made. The missing-as-worst to consider a missing MED attribute in a path as having a value of infinity, making the path without a MED value the least desirable path. If missing-as-worst is disabled, the missing MED is assigned the value of 0,making the path with the missing MED attribute the best path.

Attribute Name: med-type

Attribute Type: bits (confed|missing-as-worst|remove-recv-med|remove-send-med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      <med-type>3</med-type> <!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath med (missing-as-worst) confed
```

Configure bgp-instances bgp-as

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
```

```
    </config>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
router bgp <1-4294967295>
```

Configure router id

Use this attribute to manually configure a fixed router ID as a BGP router identifier. When this attribute is used to configure a fixed router ID, the current router identifier is overridden and the peers are reset.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp router-id A.B.C.D
```

Configure cluster id

Use this attribute to configure the cluster ID if the BGP cluster has more than one route reflector. A cluster includes route reflectors and its clients. Usually, each cluster is identified by the router ID of its single route reflector but to increase redundancy sometimes a cluster may have more than one route reflector. All router reflectors in such a cluster are then identified by a cluster ID. The clusterId attribute is used to configure the 4 byte cluster ID for clusters with more than one route reflectors in an IPv4 address format.

Attribute Name: cluster-id

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
```

```
   </config>
      <cluster-id>BGP_CLUSTER_ID_T</cluster-id>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp cluster-id (A.B.C.D|<1-4294967295>)
```

Configure local preference

Use this attribute to change the default local preference value. Local preference indicates the preferred path when there are multiple paths to the same destination. The path having a higher preference is preferred. The preference is sent to all routers and access servers in the local autonomous system.

Attribute Name: local-preference

Attribute Type: uint32

Default Value: 100

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      <local-preference>0</local-preference> <!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp default local-preference <0-4294967295>
```

Configure graceful shutdown capable

Use this attribute to enable the graceful shutdown capability at the router level and make available the graceful-shutdown related attributes at the router and BGP neighbor levels.

Attribute Name: graceful-shutdown-capable

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
```

```
    <config>
       <bgp-as>1</bgp-as>
    </config>
       </graceful-shutdown-capable><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp g-shut-capable
```

Configure graceful shutdown

Use this attribute to gracefully shut down all BGP IPv4 sessions under this router. The BGP graceful shutdown feature reduces packet loss during maintenance activity.

Attribute Name: graceful-shutdown

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </graceful-shutdown><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp g-shut
```

Configure graceful shutdown local preference

Use this attribute to set the local preference of the router to use during graceful shutdown. The local preference value indicates the preferred path when there are multiple paths to the same destination in a single routing database. The path with a higher preference value is the preferred one. The preferred path is sent to all routers and access servers in the local autonomous system.

Attribute Name: graceful-shutdown-local-preference

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```
   <bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
         <graceful-shutdown-local-preference>0</graceful-shutdown-local-preference>
<!-- operation="delete"-->
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp g-shut-local-preference <0-4294967295>
```

Configure log neighbor changes

Use this attribute to enable logging of status change messages without turning on debug bgp attributes. Product has many logging services for neighbor status, including debug bgp fsm and debug bgp events. However, these attributes cause system performance degradation. If you need to log neighbor status changes only, IP Infusion Inc. recommends turning off all debug attributes and using the setLogNbrChanges attribute instead.

Attribute Name: log-neighbor-changes

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
         </log-neighbor-changes><!-- operation="delete"-->
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp log-neighbor-changes
```

Configure scan interval

Use this attribute to configure scanning intervals of BGP routers. This interval is the period after which router checks the validity of the routes in its database. To disable BGP scanning, set the scan-time interval to 0 seconds.

Attribute Name: scan-interval

Attribute Type: uint32

Default Value: 60

Attribute Range: 0-60

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      <scan-interval>0</scan-interval> <!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp scan-time <0-60>
```

Configure best path dont compare originator

Use this attribute to change the default bestpath selection by not comparing an originator-ID for an identical EBGP path

Attribute Name: best-path-dont-compare-originator

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </best-path-dont-compare-originator><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath dont-compare-originator-id
```

Configure enable deterministic med

Use this attribute to compare the Multi Exit Discriminator (MED) variable when choosing among routes advertised by different peers in the same autonomous system. MED is compared after BGP attributes weight, local preference, AS-path and origin have been compared and are equal. For a correct comparison result, enable this attribute on all routers in a local AS. After enabling this attribute, all paths for the same prefix are grouped together and arranged according to their MED value. Based on this comparison, the best path is then chosen. This attribute compares MED variable when choosing routes advertised by different peers in the same AS, to compare MED, when choosing routes from neighbors in different ASs use the compareMed attribute. When the deterministicMed attribute is set, routes from the same AS are grouped together, and the best routes of each group are compared.

Attribute Name: enable-deterministic-med

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </enable-deterministic-med><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp deterministic-med
```

Configure enforce first as for ebgp

Use this attribute to enforce the first AS for eBGP routes. This attribute specifies that any updates received from an external neighbor that do not have the neighbors configured Autonomous System (AS) at the beginning of the AS_PATH in the received update must be denied. Enabling this feature adds to the security of the BGP network by not allowing traffic from unauthorized systems.

Attribute Name: enforce-first-as-for-ebgp

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </enforce-first-as-for-ebgp><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp enforce-first-as
```

Configure local as count

Use this attribute to set the number of times the local-AS (Autonomous System) is to be prepended.

Attribute Name: local-as-count

Attribute Type: uint8

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      <local-as-count>2</local-as-count> <!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp as-local-count <2-64>
```

Configure bgp-instance med-type

Use this attribute to specify two MED (Multi Exit Discriminator) attributes, confed and missing-as-worst. The confed attribute enables MED comparison along paths learned from confederation peers. The MEDs are compared only if there is no external Autonomous System (an AS not within the confederation) in the path. If there is an external autonomous system in the path, the MED comparison is not made. The missing-as-worst to consider a missing MED attribute in a path as having a value of infinity, making the path without a MED value the least desirable path. If missing-as-worst is disabled, the missing MED is assigned the value of 0,making the path with the missing MED attribute the best path.

Attribute Name: med-type

Attribute Type: bits (confed|missing-as-worst|remove-recv-med|remove-send-med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      <med-type>confed</med-type> <!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath med (confed|missing-as-worst|remove-recv-med|remove-send-med)
```

Configure multi path relax

Use this attribute to relax the same AS-Path requirement so any candidate eBGP AS-Path with the same AS-path length might be used for eBGP load-balancing. This feature does not load-balance between eBGP and iBGP paths. Normally eBGP load-balancing requires the candidate routes to be equal-cost paths with identical BGP attributes having the same weight, Local-Pref, AS-Path (both the AS numbers and the AS pathlength), origin, MED, and different next-hop.

Attribute Name: multi-path-relax

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </multi-path-relax><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp bestpath as-path multipath-relax
```

Configure enable mpls nexthop tracking

Use this attribute to enable mpls nexthop address tracking. MPLS Nexthop address tracking is an event-driven notification system that monitors the status of LSP installed in the NSM and reports changes that affect internal BGP (iBGP) or external BGP (eBGP) prefixes directly to theBGP process. This improves the overall BGP convergence time, by allowing BGP to respond rapidly to nexthop changes for FTN installed in the NSM. If MPLS nexthop tracking is enabled after certain routes are learned, the registration of all nexthops for selected BGP routes is done after the mpls nexthop tracking feature is enabled. If MPLS nexthop tracking is disabled, and if there are still some selected BGP routes, BGP de-registers the nexthops of all selected BGP routes from NSM.

Attribute Name: enable-mpls-nexthop-tracking

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </enable-mpls-nexthop-tracking><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
mpls-nexthop-tracking
```

Configure ignore aigp for bestpath

Use this config to ignore aigp attr in BGP best-path selection alogorithm.

Attribute Name: ignore-aigp-for-bestpath

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </ignore-aigp-for-bestpath><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath aigp ignore
```

Configure auto policy soft reset

Enable automatic soft-reset of BGP peers when their configured route policy is modified

Attribute Name: auto-policy-soft-reset

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
      </auto-policy-soft-reset><!-- operation="delete"-->
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp auto-policy-soft-reset enable
```

Configure identifier

Use this attribute to specify a BGP confederation identifier

Attribute Name: identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <confederation>
   <config>
          <identifier>1</identifier> <!-- operation="delete"-->
   </config>
</confederation>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp confederation identifier <1-4294967295>
```

Configure peer as number

Use this attribute to specify peer AS number in BGP confederation

Attribute Name: peer-as-number

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <confederation>
   <config>
          <peer-as-number>1</peer-as-number> <!-- operation="delete"-->
   </config>
</confederation>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp confederation peers .<1-4294967295>
```

Configure confed vrf name

Use this attribute to specify a BGP confederation vrf identifier

Attribute Name: identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <confederation-vrfs>
   <confederation-vrf>
      <confed-vrf-name>NAME</confed-vrf-name>
      <config>
         <confed-vrf-name>WORD</confed-vrf-name>
      </config>
         <identifier>1</identifier> <!-- operation="delete"-->
   </confederation-vrf>
</confederation-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp confederation vrf NAME identifier <1-4294967295>
```

Configure confederation-vrf peer-as-number

Use this attribute to specify peer AS number in BGP confederation vrf

Attribute Name: peer-as-number

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <confederation-vrfs>
   <confederation-vrf>
      <confed-vrf-name>NAME</confed-vrf-name>
      <config>
         <confed-vrf-name>WORD</confed-vrf-name>
      </config>
         <peer-as-number>1</peer-as-number> <!-- operation="delete"-->
   </confederation-vrf>
</confederation-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp confederation vrf NAME peers .<1-4294967295>
```

Configure enable graceful restart

Use this attribute to enable BGP graceful-restart capabilities. The restart-time parameter is used for setting the maximum time that a graceful-restart neighbor waits to come back up after a restart. This value is applied to all neighbors unless you explicitly override it by configuring the corresponding value on the neighbor. The stalepath-time parameter is used to set the maximum time to preserve stale paths from a gracefully restarted neighbor. All stalepaths, unless reinstated by the neighbor after a re-establishment, will be deleted at the expiration of this timer.

Attribute Name: enable-graceful-restart

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <graceful-restart>
   <config>
         </enable-graceful-restart><!-- operation="delete"-->
   </config>
</graceful-restart>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp graceful-restart
```

Configure restart time

Use this attribute to enable BGP graceful-restart capabilities. The restart-time parameter is used for setting the maximum time that a graceful-restart neighbor waits to come back up after a restart. This value is applied to all neighbors unless you explicitly override it by configuring the corresponding value on the neighbor.

Attribute Name: restart-time

Attribute Type: uint32

Default Value: 90

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <graceful-restart>
   <config>
         <restart-time>1</restart-time> <!-- operation="delete"-->
   </config>
</graceful-restart>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp graceful-restart restart-time <1-3600>
```

Configure stale path max retention time

Use this attribute to enable BGP graceful-restart capabilities. The stalepath-time parameter is used to set the maximum time to preserve stale paths from a gracefully restarted neighbor. All stalepaths, unless reinstated by the neighbor after a re-establishment, will be deleted at the expiration of this timer.

Attribute Name: stale-path-max-retention-time

Attribute Type: uint32

Default Value: 360

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <graceful-restart>
      <config>
            <stale-path-max-retention-time>1</stale-path-max-retention-time> <!--
operation="delete"-->
      </config>
   </graceful-restart>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 bgp graceful-restart stalepath-time <1-3600>
```

Configure route selection max defer time

Use this attribute to specify the update-delay value for a graceful-restart capable router. The update-delay value is the maximum time a graceful-restart capable router, which is restarting, will defer route-selection and advertisements to all its graceful-restart capable neighbors. This maximum time starts from the instance the first neighbor attains established state after restart. The restarting router prematurely terminates this timer when end-of-rib markers are received from all its graceful-restart capable neighbors.

Attribute Name: route-selection-max-defer-time

Attribute Type: uint32

Default Value: 120

Attribute Range: 1-3600

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <graceful-restart>
      <config>
            <route-selection-max-defer-time>1</route-selection-max-defer-time> <!--
operation="delete"-->
      </config>
   </graceful-restart>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp update-delay <1-3600>
```

Configure graceful reset

Use this attribute to enable BGP graceful-restart capabilities. The restart-time parameter is used for setting the maximum time that a graceful-restart neighbor waits to come back up after a restart. This value is applied to all neighbors unless you explicitly override it by configuring the corresponding value on the neighbor.

Attribute Name: graceful-reset

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <graceful-restart>
   <config>
          </graceful-reset><!-- operation="delete"-->
   </config>
</graceful-restart>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp graceful-restart graceful-reset
```

Configure keep alive

Use this attribute to globally set or reset the keepalive values for all the neighbors

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
```

```
    <config>
       <bgp-as>1</bgp-as>
    </config>
    <timers>
    <config>
           <hold-time>0</hold-time>
           <keep-alive>0</keep-alive>
    </config>
</timers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
timers bgp <0-65535> <0-65535>
```

Configure always compare med

Use this attribute to compare the Multi Exit Discriminator (MED) for paths from neighbors in different autonomous systems. Multi Exit Discriminator (MED) is used in best path selection by BGP. MED is compared after BGP attributes weight, local preference, AS-path and origin have been compared and are equal. MED comparison is done only among paths from the same autonomous system (AS). Use compareMed attribute to allow comparison of MEDs from different ASs. The MED parameter is used to select the best path. A path with lower MED is preferred.

Attribute Name: always-compare-med

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <route-selection>
   <config>
          </always-compare-med><!-- operation="delete"-->
   </config>
</route-selection>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp always-compare-med
```

Configure ignore as path length

Use this attribute to prevent the router from considering the autonomous system (AS) path length as a factor in the algorithm for choosing a best path route.

Attribute Name: ignore-as-path-length

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <route-selection>
   <config>
          </ignore-as-path-length><!-- operation="delete"-->
   </config>
</route-selection>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp bestpath as-path ignore
```

Configure best path compare confed

Use this attribute to allow comparing of the confederation AS path length. This attribute specifies that the AS confederation path length must be used when available in the BGP best path decision process. It is effective only when bestpathAspath attribute has not been used.

Attribute Name: best-path-compare-confed

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <route-selection>
   <config>
          </best-path-compare-confed><!-- operation="delete"-->
   </config>
</route-selection>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath compare-confed-aspath
```

Configure external compare router id

Use this attribute to compare router IDs for identical eBGP paths. When comparing similar routes from peers, the BGP router does not consider the router ID of the routes. By default, it selects the first received route. Use this attribute to include router ID in the selection process; similar routes are compared and the route with the lowest router ID is selected. The router IS is the highest IP address on the router, with preference given to loopback addresses. Router ID can be manually set by using the routerIpAddr attribute.

Attribute Name: external-compare-router-id

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <route-selection>
   <config>
          </external-compare-router-id><!-- operation="delete"-->
   </config>
</route-selection>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp bestpath compare-routerid
```

Configure source ip prefix

Use this attribute to set the administrative distance for ip source prefix.

Attribute Name: source-ip-prefix

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <administrative-distances>
   <administrative-distance> <!-- operation="delete"-->
      <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
      <config>
         <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
         <distance>1</distance>
      </config>
   </administrative-distance>
</administrative-distances>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 distance <1-255> A.B.C.D/M
```

Configure access list name

Use this attribute to define an administrative distance along with ip source prefix and access list name.

Attribute Name: access-list-name

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <administrative-distances>
   <administrative-distance>
      <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
      <config>
         <source-ip-prefix>A.B.C.D/M</source-ip-prefix>
         <distance>1</distance>
      </config>
```

```
            <access-list-name>WORD</access-list-name>
      </administrative-distance>
   </administrative-distances>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
distance <1-255> A.B.C.D/M WORD
```

Configure all routes

Use this attribute to allocate label to all the advertised routes

This command is supported when following feature are enabled bgp lu feature

Attribute Name: all-routes

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <allocate-label>
      <config>
             </all-routes><!-- operation="delete"-->
      </config>
   </allocate-label>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
allocate-label all
```

Configure route map name

Use this attribute to allocate label to those advertised routes that match route-map.

This command is supported when following feature are enabled bgp lu feature

Attribute Name: route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
```

```
<bgp-instance>
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <allocate-label>
   <config>
         <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
   </config>
</allocate-label>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 allocate-label route-map WORD
```

IPI-BGP-ADDRESS-FAMILY

Configure safi

BGP sub address family identifier

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family> <!-- operation="delete"-->
         <safi>labeled-unicast</safi>
         <config>
            <safi>labeled-unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
      </address-family>
   </address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
address-family ipv4 labeled-unicast
```

Configure additional path fast reroute

Use this attribute to specify fast-reroute tie-break secondary-path

Attribute Name: additional-path-fast-reroute

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
            </additional-path-fast-reroute><!-- operation="delete"-->
      </address-family>
   </address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp fast-reroute tie-break secondary-path
```

Configure additional paths mode

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
```

```
          </config>
          <address-families>
          <address-family>
             <safi>unicast</safi>
             <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
          </address-family>
       </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    bgp additional-paths (send-receive|receive|send)
```

Configure bgp as

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete">
          </address-family>
       </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp additional-paths (send-receive|receive|send)
```

Configure afi

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
         </address-family>
      </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp additional-paths (send-receive|receive|send)
```

Configure additional path select all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </additional-path-select-all><!-- operation="delete"-->
         </address-family>
      </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 bgp additional-paths select all
```

Configure address-family additional-path-select-all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </additional-path-select-all><!-- operation="delete"-->
         </address-family>
      </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp additional-paths select all
```

Configure address-family additional-path-select-all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
            </additional-path-select-all><!-- operation="delete"-->
      </address-family>
   </address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp additional-paths select all
```

Configure additional paths best select count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-families>
          <address-family>
             <safi>unicast</safi>
             <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
          </address-family>
       </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 bgp additional-paths select best <2-3>
```

Configure address-family additional-paths-best-select-count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
          </address-family>
       </address-families>
```

```
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    bgp additional-paths select best <2-3>
```

Configure address-family additional-paths-best-select-count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    bgp additional-paths select best <2-3>
```

Configure no client route reflection

Use this attribute to configure routers as route reflectors. Route reflectors are used when all Interior Border Gateway Protocol (iBGP) speakers are not fully meshed. If the clients are fully meshed the route reflector is not required.

Attribute Name: no-client-route-reflection

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
            </no-client-route-reflection><!-- operation="delete"-->
      </address-family>
   </address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 no bgp client-to-client reflection
```

Configure enable auto summary

Use this attribute to enable sending summarized routes by a BGP speaker to its peers. Auto-summary is used by a BGP router to advertise summarized routes to its peers. Auto-summary can be enabled if certain routes have already been advertised: in this case, configuring auto-summary advertises the summarized routes first, then corresponding non-summarized routes are withdrawn. If certain routes have already been advertised, and auto-summary is disabled, non-summarized routes are first advertised, then the corresponding summarized routes are withdrawn from all the connected peers.

Attribute Name: enable-auto-summary

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                </enable-auto-summary><!-- operation="delete"-->
          </address-family>
       </address-families>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 auto-summary
```

Configure enable additional path pic

Use this attribute to enable the additional paths in the BGP table,install the indirect nexthop in RIB

Attribute Name: enable-additional-path-pic

Attribute Type: uint8

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-families>
          <address-family>
             <safi>unicast</safi>
             <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                </enable-additional-path-pic><!-- operation="delete"-->
          </address-family>
       </address-families>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 bgp additional-paths install
```

Configure enable network igp sync

Use this attribute to enable IGP synchronization for BGP static network routes

Attribute Name: enable-network-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
            </enable-network-igp-sync><!-- operation="delete"-->
      </address-family>
   </address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 network synchronization
```

Configure multi path

Use this attribute to enable L3VPN multipath for ECMP

Attribute Name: multi-path

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
```

```
            </config>
               <afi>ipv4</afi>
               </multi-path><!-- operation="delete"-->
         </address-family>
      </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
multi-path
```

Configure address-family multi-path

Use this attribute to enable L3VPN multipath for ECMP

Attribute Name: multi-path

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
            </multi-path><!-- operation="delete"-->
      </address-family>
   </address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
multi-path
```

Configure enable igp sync

Use this attribute to enable IGP synchronization of Internal BGP (iBGP) learned routes with the Internal Gateway Protocol (IGP) system. Synchronization is used when a BGP router should not advertise routes learned from iBGP neighbors, unless those routes are also present in an IGP (for example, OSPF). Synchronization may be enabled when

all the routers in an autonomous system do not speak BGP, and the autonomous system is a transit for other autonomous systems.

Attribute Name: enable-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
            </enable-igp-sync><!-- operation="delete"-->
      </address-family>
   </address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 synchronization
```

Configure enable bgp implicit null

Use this attribute to enable BGP LU implicit null.

Attribute Name: enable-bgp-implicit-null

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
```

```
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </enable-bgp-implicit-null><!-- operation="delete"-->
         </address-family>
      </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 bgp implicit-null
```

Configure backdoor

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <network-lists>
            <network-list>
               <local-network-prefix>A.B.C.D</local-network-prefix>
               <config>
                  <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
                  <network-rmap-name>WORD</network-rmap-name>
               </config>
```

```
                </backdoor>
            </network-list>
        </network-lists>
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
network (A.B.C.D | A.B.C.D/M) (route-map WORD|) (backdoor|)
```

Configure local network prefix

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
            <network-lists>
            <network-list>
                <local-network-prefix>A.B.C.D</local-network-prefix>
                <config>
                    <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
                    <network-rmap-name>WORD</network-rmap-name>
                </config>
                    </backdoor>
            </network-list>
        </network-lists>
```

```
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
network (X:X::X:X/M) (route-map WORD|) (backdoor|)
```

Configure aggregate address

Aggregates are used to minimize the size of routing tables. Aggregation combines the characteristics of several different routes and advertises a single route.The aggregate-address attribute creates an aggregate entry in the BGP routing table if any more-specific BGP routes are available in the specified range.

Attribute Name: aggregate-address

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list> <!-- operation="delete"-->
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address (A.B.C.D/M|A.B.C.D A.B.C.D|X:X::X:X/M)
```

Configure aggregate type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
               <aggregate-type>1</aggregate-type> <!-- operation="delete"-->
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 aggregate-address as-set
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
               <aggregate-type>2</aggregate-type> <!-- operation="delete"-->
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 aggregate-address summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
           <safi>unicast</safi>
           <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <afi>ipv4</afi>
           <aggregate-address-lists>
           <aggregate-address-list>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              <config>
                 <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              </config>
                 <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
           </aggregate-address-list>
        </aggregate-address-lists>
     </address-family>
  </address-families>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
aggregate-address as-set summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
           <safi>unicast</safi>
           <config>
```

```
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
               <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address summary-only as-set
```

Configure local

Use this attribute to define an administrative distance for local routes. Local routes are routes that is redistributed from another process.A distance is a rating of trustworthiness of a router. The higher the distance the lower the trust rating. If the administrative distance is changed, it could create inconsistency in the routing table and obstruct routing.

Attribute Name: local

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <distances>
         <distance> <!-- operation="delete"-->
```

```
                <local>1</local>
                <config>
                    <local>1</local>
                    <ibgp>1</ibgp>
                    <ebgp>1</ebgp>
                </config>
                    <ibgp>1</ibgp>
                    <ebgp>1</ebgp>
            </distance>
        </distances>
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
distance bgp <1-255> <1-255> <1-255>
```

Configure ebgp

Use this attribute to define an administrative distance for local routes. Local routes are routes that is redistributed from another process.A distance is a rating of trustworthiness of a router. The higher the distance the lower the trust rating. If the administrative distance is changed, it could create inconsistency in the routing table and obstruct routing.

Attribute Name: local

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
            <distances>
            <distance> <!-- operation="delete"-->
                <local>1</local>
                <config>
                    <local>1</local>
```

```
                <ibgp>1</ibgp>
                <ebgp>1</ebgp>
             </config>
                <ibgp>1</ibgp>
                <ebgp>1</ebgp>
          </distance>
       </distances>
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
distance bgp <1-255> <1-255> <1-255>
```

Configure ebgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <maximum-paths>
         <config>
                <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
         </config>
      </maximum-paths>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
max-paths ebgp <2-64>
```

Configure maximum-paths ebgp-max-path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <maximum-paths>
         <config>
                <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
         </config>
      </maximum-paths>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
max-paths ebgp <2-64>
```

Configure ibgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for iBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path.

Attribute Name: ibgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <maximum-paths>
         <config>
                <ibgp-max-path>2</ibgp-max-path> <!-- operation="delete"-->
         </config>
      </maximum-paths>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 max-paths ibgp <2-64>
```

Configure eibgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eiBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: eibgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
```

```
        </config>
        <address-families>
        <address-family>
           <safi>unicast</safi>
           <config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <afi>ipv4</afi>
           <maximum-paths>
           <config>
                 <eibgp-max-path>2</eibgp-max-path> <!-- operation="delete"-->
           </config>
        </maximum-paths>
     </address-family>
  </address-families>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 max-paths eibgp <2-64>
```

Configure map name

Use this attribute to enable or disable suppression/modification of incoming BGP updates to IP RIB/FIB table installation. In a dedicated route reflector, all the routes it receives may not be required to be stored or only few selected routes need to be stored, because it may not lie in the data path. Table maps are particularly useful to attain this restriction. When map-name attribute is set, the route map referenced in the map-name attribute shall be used to set certain properties (such as the traffic index) of the routes for installation into the RIB. The route is always downloaded, regardless of whether it is permitted or denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
           <safi>unicast</safi>
           <config>
              <safi>unicast</safi>
```

```
            <afi>ipv4</afi>
          </config>
            <afi>ipv4</afi>
          <table-map>
          <config>
                <map-name>WORD</map-name>
          </config>
        </table-map>
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
table-map WORD
```

Configure table map filter

When tableMapFilter attribute is given in the table map attribute, the route map referenced is used to control whether a BGP route is to be downloaded to the IP RIB (hence the filter). A BGP route is not downloaded to the RIB if it is denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: table-map-filter

Attribute Type: boolean

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
            <table-map>
            <config>
                  <map-name>WORD</map-name> <!-- operation="delete"-->
```

```
                    <table-map-filter>true</table-map-filter> <!-- operation="delete"--
>
             </config>
          </table-map>
       </address-family>
    </address-families>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
table-map WORD filter
```

Configure enable dampening

This attribute enable BGP route dampening and set various parameters to default values.

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-families>
          <address-family>
             <safi>unicast</safi>
             <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
             <route-flap-dampenings>
             <route-flap-dampening> <!-- operation="delete"-->
                <enable-dampening>enable-dampening</enable-dampening>
                <config>
                   <enable-dampening>enable-dampening</enable-dampening>
                </config>
             </route-flap-dampening>
          </route-flap-dampenings>
       </address-family>
    </address-families>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
bgp dampening
```

Configure route-flap-dampenings enable-dampening

This attribute enable BGP route dampening and set various parameters to default values.

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening> <!-- operation="delete"-->
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
            </config>
         </route-flap-dampening>
      </route-flap-dampenings>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp dampening
```

Configure route-flap-dampenings enable-dampening

This attribute enable BGP route dampening and set various parameters to default values.

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening> <!-- operation="delete"-->
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
            </config>
         </route-flap-dampening>
      </route-flap-dampenings>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp dampening
```

Configure reach half life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-flap-dampenings>
            <route-flap-dampening>
               <enable-dampening>enable-dampening</enable-dampening>
               <config>
                  <enable-dampening>enable-dampening</enable-dampening>
               </config>
                  <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>
         </route-flap-dampenings>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp dampening <1-45>
```

Configure route-flap-dampening reach-half-life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
```

```
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-flap-dampenings>
            <route-flap-dampening>
               <enable-dampening>enable-dampening</enable-dampening>
               <config>
                  <enable-dampening>enable-dampening</enable-dampening>
               </config>
                  <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>
         </route-flap-dampenings>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp dampening <1-45>
```

Configure route-flap-dampening reach-half-life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
```

```
            <route-flap-dampenings>
            <route-flap-dampening>
               <enable-dampening>enable-dampening</enable-dampening>
               <config>
                  <enable-dampening>enable-dampening</enable-dampening>
               </config>
                  <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>
         </route-flap-dampenings>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp dampening <1-45>
```

Configure max suppress time

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
```

```
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-flap-dampenings>
            <route-flap-dampening>
               <enable-dampening>enable-dampening</enable-dampening>
               <config>
                  <enable-dampening>enable-dampening</enable-dampening>
                  <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
                  <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
                  <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
               </config>
                  <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
            </route-flap-dampening>
         </route-flap-dampenings>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure reuse penalty

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening>
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
               <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
               <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
               <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
            </config>
               <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
         </route-flap-dampening>
      </route-flap-dampenings>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure suppress penalty

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening>
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
               <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
               <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
               <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
            </config>
               <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
         </route-flap-dampening>
      </route-flap-dampenings>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure unreach half life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening>
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
               <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
               <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
               <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
               <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
            </config>
               <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
         </route-flap-dampening>
      </route-flap-dampenings>
```

```
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure route-flap-dampening unreach-half-life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
```

```
            <afi>ipv4</afi>
          <route-flap-dampenings>
          <route-flap-dampening>
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
              <enable-dampening>enable-dampening</enable-dampening>
              <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
              <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
              <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
              <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
            </config>
              <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
          </route-flap-dampening>
        </route-flap-dampenings>
      </address-family>
  </address-families>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure route-flap-dampening unreach-half-life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening>
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
               <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
               <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
               <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
               <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
            </config>
               <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
         </route-flap-dampening>
      </route-flap-dampenings>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure dampening rmap name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-families>
          <address-family>
             <safi>unicast</safi>
             <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
             <route-flap-dampenings>
             <route-flap-dampening>
                <enable-dampening>enable-dampening</enable-dampening>
                <config>
                   <enable-dampening>enable-dampening</enable-dampening>
                </config>
                   <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
             </route-flap-dampening>
          </route-flap-dampenings>
       </address-family>
    </address-families>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     bgp dampening route-map WORD
```

Configure route-flap-dampening dampening-rmap-name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-families>
          <address-family>
```

```
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-flap-dampenings>
            <route-flap-dampening>
               <enable-dampening>enable-dampening</enable-dampening>
               <config>
                  <enable-dampening>enable-dampening</enable-dampening>
               </config>
                  <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
            </route-flap-dampening>
         </route-flap-dampenings>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp dampening route-map WORD
```

Configure route-flap-dampening dampening-rmap-name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-flap-dampenings>
```

```
            <route-flap-dampening>
               <enable-dampening>enable-dampening</enable-dampening>
               <config>
                  <enable-dampening>enable-dampening</enable-dampening>
               </config>
                  <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
            </route-flap-dampening>
         </route-flap-dampenings>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 bgp dampening route-map WORD
```

Configure protocol type

Use this attribute to inject routes from one routing process into another. Redistribution is used by routing protocols to advertise routes that are learned by some other means, such as by another routing protocol or by static routes. Since all internal routes are dumped into BGP, careful filtering is applied to make sure that only routes to be advertised reach the internet, not everything. This attribute allows redistribution by injecting prefixes from one routing protocol into another routing protocol.

Attribute Name: protocol-type

Attribute Type: enum (connected|static|rip|ospf|isis|connected-host-routes)

Attribute Name: redist-route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-redistribute-lists>
```

```
            <route-redistribute-list> <!-- operation="delete"-->
               <protocol-type>connected</protocol-type>
               <config>
                  <protocol-type>connected</protocol-type>
                  <redist-route-map-name>WORD</redist-route-map-name>
               </config>
            </route-redistribute-list>
         </route-redistribute-lists>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|isis|connected-host-routes) (route-map
  WORD|)
```

Configure afi

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpnv4|vpnv6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: ospf-instance-number

Attribute Type: union

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
   <bgp-instance> <!-- operation="delete"-->
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <afi>ipv4</afi>
            <safi>unicast</safi>
            <bgp-redistributes-ospf>
            <bgp-redistribute-ospf>
               <ospf-instance-number>""</ospf-instance-number>
            </bgp-redistribute-ospf>
```

```
          </bgp-redistributes-ospf>
       </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    redistribute (ospf) (WORD|<1-65535>)
```

Configure redistribute ospf route map

Use this attribute to specify route map to redistribute routes from OSPF into BGP.

Attribute Name: redistribute-ospf-route-map

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <bgp-redistributes-ospf>
            <bgp-redistribute-ospf>
               <ospf-instance-number>""</ospf-instance-number>
               <config>
                  <ospf-instance-number>""</ospf-instance-number>
               </config>
                  <redistribute-ospf-route-map>WORD</redistribute-ospf-route-map> <!-
- operation="delete"-->
            </bgp-redistribute-ospf>
         </bgp-redistributes-ospf>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
redistribute (ospf) route-map WORD
```

Configure bgpSRv6enable

This attribute enable Segment Routing V6

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: bgpSRv6enable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <bgp-srv6>
         <config>
                </bgpSRv6enable>
         </config>
      </bgp-srv6>
   </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
segment-routing srv6
```

Configure bgpSRv6LocatorName

Locator name

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: bgpSRv6LocatorName

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-families>
      <address-family>
         <safi>unicast</safi>
         <config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <afi>ipv4</afi>
         <bgp-srv6>
         <locators>
         <locator> <!-- operation="delete"-->
            <bgpSRv6LocatorName>WORD</bgpSRv6LocatorName>
            <config>
               <bgpSRv6LocatorName>WORD</bgpSRv6LocatorName>
            </config>
         </locator>
      </locators>
   </bgp-srv6>
</address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
srv6-locator WORD
```

Configure validation enable

Enable BGP Origin Validation feature

This command is supported when following feature are enabled BGP RPKI

Attribute Name: validation-enable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <as-origin>
            <config>
                  </validation-enable><!-- operation="delete"-->
            </config>
         </as-origin>
      </address-family>
   </address-families>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 bgp origin-as validation-enable
```

Configure bestpath use validity

Enable to use BGP Origin Validation RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-use-validity

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <as-origin>
            <config>
```

```
                </bestpath-use-validity><!-- operation="delete"-->
            </config>
        </as-origin>
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp origin-as bestpath use-validity
```

Configure bestpath allow invalid

Enable to handle a route with invalid RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-allow-invalid

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-families>
        <address-family>
            <safi>unicast</safi>
            <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
            <as-origin>
            <config>
                   </bestpath-allow-invalid><!-- operation="delete"-->
            </config>
        </as-origin>
    </address-family>
</address-families>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp origin-as bestpath allow-invalid
```

clear ip bgp (A.B.C.D|X:X::X:X|WORD) (description LINE|)

Attribute Name: arg

Attribute Type: union

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
       <ipi-bgp-address-family_clear-ip-bgp-peer xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-bgp">
       <arg>A.B.C.D|X:X::X:X</arg>
       <peer-reset-description>1</peer-reset-description>
       </ipi-bgp-address-family_clear-ip-bgp-peer>
```

Command Syntax

```
     clear ip bgp (A.B.C.D|X:X::X:X|WORD) (description LINE|)
```

IPI-BGP-PEER-GROUP

Configure peer group tag

Creates a peer-group group. Neighbors with the same update policies are grouped into peer-group groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer-group group is then configured easily with any of the neighbor attributes. Any changes made to the peer-group group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group> <!-- operation="delete"-->
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
               <peer-group-range>0</peer-group-range>
            </config>
```

```
        </peer-group>
      </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD peer-group
```

Configure bgp as

Creates a peer-group group. Neighbors with the same update policies are grouped into peer-group groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer-group group is then configured easily with any of the neighbor attributes. Any changes made to the peer-group group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group> <!-- operation="delete"-->
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
            <peer-group-range>A.B.C.D/M</peer-group-range>
         </config>
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD peer-group range A.B.C.D/M
```

Configure peer group range

Creates a peer-group group. Neighbors with the same update policies are grouped into peer-group groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer-group group is then configured easily with any of the neighbor attributes. Any changes made to the peer-group group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group> <!-- operation="delete"-->
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
            <peer-group-range>X:X::X:X/M</peer-group-range>
         </config>
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD peer-group range X:X::X:X/M
```

Configure group limit

This attribute specifies maximum number of peer-groups in a dynamic peer-group

Attribute Name: group-limit

Attribute Type: uint16

Attribute Range: 1-512

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
```

```
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <group-limit>1</group-limit> <!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD limit <1-512>
```

Configure enable peer bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer-group

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </enable-peer-bfd><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD fall-over bfd
```

Configure enable peer bfd multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer-group with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </enable-peer-bfd-multihop><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD fall-over bfd multihop
```

Configure peer as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            <peer-as>1</peer-as> <!-- operation="delete"-->
      </peer-group>
```

```
    </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD remote-as <1-4294967295>
```

Configure graceful shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </graceful-shut><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD g-shut
```

Configure graceful shutdown timer

Configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shutdown-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <graceful-shutdown-timer>10</graceful-shutdown-timer> <!--
operation="delete"-->
         </peer-group>
      </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD g-shut-timer <10-65535>
```

Configure peer restart time

Sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the grstSet attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
```

```
        </peer-group>
      </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD restart-time <1-3600>
```

Configure peer description

Associates a description with a neighbor. This helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            <peer-description>LINE</peer-description> <!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD description LINE
```

Configure peer connect interval

This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connect-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <peer-connect-interval>1</peer-connect-interval> <!--
operation="delete"-->
         </peer-group>
      </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD timers connect <1-65535>
```

Configure peer as origin interval

Configures the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
```

```
            </config>
               <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
          </peer-group>
       </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD as-origination-interval <1-65535>
```

Configure min route advertisement interval

Sets a minimum route advertisement interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <min-route-advertisement-interval>0</min-route-advertisement-interval>
<!-- operation="delete"-->
          </peer-group>
       </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD advertisement-interval <0-65535>
```

Configure enable dynamic capability

Use this attribute to enable the dynamic capability for a specific peer-group. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer-group in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </enable-dynamic-capability><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD capability dynamic
```

Configure collide established

Include a neighbor already in an established state for conflict resolution when a TCP connection collision is detected.

Attribute Name: collide-established

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
```

```
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </collide-established><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD collide-established
```

Configure source identifier

Allows internal BGP sessions to use any operational interface for TCP connections. This attribute can be used in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            <source-identifier>WORD</source-identifier> <!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD update-source WORD
```

Configure enforce multi hop

Turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multi-hop

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </enforce-multi-hop><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD enforce-multihop
```

Configure neighbor override capability

Override a capability negotiation result and use locally configured values.

Attribute Name: neighbor-override-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
```

```
            <peer-group-tag>WORD</peer-group-tag>
          </config>
            </neighbor-override-capability><!-- operation="delete"-->
       </peer-group>
    </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD override-capability
```

Configure neighbor strict capability match

Close the BGP connection if capability value does not match the remote peer-group.

Attribute Name: neighbor-strict-capability-match

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </neighbor-strict-capability-match><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD strict-capability-match
```

Configure disallow infinite hold time

Disallow configuration of infinite hold-time. A hold-time of 0 seconds from the peer-group (during exchange of open messages) or the user (during configuration) will be rejected.

Attribute Name: disallow-infinite-hold-time

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </disallow-infinite-hold-time><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD disallow-infinite-holdtime
```

Configure neighbor passive

Sets a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            </neighbor-passive><!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
```

```
   </bgp>
```

Command Syntax

```
    neighbor WORD passive
```

Configure peer shutdown description

Use this attribute to send shutdown communication message to inform peer the reason for the shutdown of the BGP session.

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Attribute Name: peer-shutdown

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
               </peer-shutdown><!-- operation="delete"-->
            </config>
               <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
         </peer-group>
      </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD shutdown (description LINE|)
```

Configure peer port

Sets the BGP port number of a neighbor.

Attribute Name: peer-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            <peer-port>0</peer-port> <!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD port <0-65535>
```

Configure bgp version

Configure router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
```

```
                <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
        </peer-group>
    </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD version (4)
```

Configure enable ext opt param len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
                </enable-ext-opt-param-len><!-- operation="delete"-->
        </peer-group>
    </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD extended-optional-param
```

Configure tcp adjust mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
            <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
      </peer-group>
   </peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD tcp-mss <40-1440>
```

Configure keep alive

Use this attribute to globally set or reset the keepalive values for all the neighbors

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
```

```
            </config>
            <timers>
            <config>
                  <hold-time>0</hold-time>
                  <keep-alive>0</keep-alive>
            </config>
         </timers>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD timers <0-65535> <0-65535>
```

Configure enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <ebgp-multihop>
         <config>
                </enabled>
         </config>
      </ebgp-multihop>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD ebgp-multihop
```

Configure maximum hop count

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <ebgp-multihop>
         <config>
                <maximum-hop-count>1</maximum-hop-count> <!-- operation="delete"-->
                </enabled><!-- operation="delete"-->
         </config>
      </ebgp-multihop>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD ebgp-multihop <1-255>
```

Configure auth key encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <bgp-passwords>
         <bgp-password>
            <password>WORD</password>
            <config>
               <password>WORD</password>
            </config>
               <auth-key-encrypt>1</auth-key-encrypt>
         </bgp-password>
      </bgp-passwords>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD authentication-key (0|1) WORD
```

Configure password

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
```

```
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <bgp-passwords>
            <bgp-password>
               <password>WORD</password>
               <config>
                  <password>WORD</password>
               </config>
                  <auth-key-encrypt>2</auth-key-encrypt>
            </bgp-password>
         </bgp-passwords>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD authentication-key WORD
```

Configure optional as

Use this attribute to specify optional AS number of BGP dynamic peer-group

Attribute Name: optional-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <optional-as-lists>
            <optional-as-list> <!-- operation="delete"-->
               <optional-as>1</optional-as>
               <config>
                  <optional-as>1</optional-as>
               </config>
            </optional-as-list>
```

```
        </optional-as-lists>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD optional-as <1-4294967295>
```

Configure peer local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <local-as>
         <local-as-list> <!-- operation="delete"-->
            <peer-local-as>1</peer-local-as>
            <config>
               <peer-local-as>1</peer-local-as>
            </config>
         </local-as-list>
      </local-as>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295>
```

Configure no prepend local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <local-as>
         <local-as-list>
            <peer-local-as>1</peer-local-as>
            <config>
               <peer-local-as>1</peer-local-as>
               </no-prepend-local-as>
               </replace-local-as>
            </config>
         </local-as-list>
      </local-as>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure additional paths mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure afi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
```

```
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure safi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
```

```
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure additional path select all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
```

```
                <afi>ipv4</afi>
                </additional-path-select-all><!-- operation="delete"-->
          </address-family>
       </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </additional-path-select-all><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </additional-path-select-all><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD advertise additional-paths all
```

Configure additional paths best select count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
```

```
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor WORD advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
```

```
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
            </address-family>
          </address-families>
       </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD advertise additional-paths best <2-3>
```

Configure activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
```

```
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
                </activate><!-- operation="delete"-->
        </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </activate><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
```

```
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   </activate><!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
```

```
        </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD activate
```

Configure default peer route map name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </default-peer-route-map-name><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD default-originate
```

Configure address-family default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </default-peer-route-map-name><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD default-originate
```

Configure peer route map orig name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD default-originate route-map WORD
```

Configure address-family peer-route-map-orig-name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD default-originate route-map WORD
```

Configure weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <weight>0</weight> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure address-family weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <weight>0</weight> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD weight <0-65535>
```

Configure route server client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
```

```
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </route-server-client><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 neighbor WORD route-server-client
```

Configure address-family route-server-client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                </route-server-client><!-- operation="delete"-->
          </address-family>
       </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-server-client
```

Configure next hop self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </next-hop-self><!-- operation="delete"-->
         </address-family>
      </address-families>
```

```
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </next-hop-self><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </next-hop-self><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer-group group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer-group. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </next-hop-self><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure flowspec validation disable

This attribute specifies if FLOWSPEC validation should be disabled for a BGP neighbor for specified address-family.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </flowspec-validation-disable><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validation should be disabled for a BGP neighbor for specified address-family.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
```

```
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </flowspec-validation-disable><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 neighbor WORD flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validation should be disabled for a BGP neighbor for specified address-family.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                </flowspec-validation-disable><!-- operation="delete"-->
          </address-family>
       </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD flowspec-validation-disable
```

Configure peer route reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
```

```
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local

router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </peer-route-reflector><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
```

```
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </peer-route-reflector><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure peer remove private as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
```

```
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </peer-remove-private-as><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD remove-private-AS
```

Configure address-family peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
```

```
                </peer-remove-private-as><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD remove-private-AS
```

Configure no send community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </no-send-community><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </no-send-community><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </no-send-community><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </no-send-community><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 no neighbor WORD send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </no-send-community><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 no neighbor WORD send-community
```

Configure no send community type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
```

```
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
```

```
                    <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
no neighbor WORD send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor WORD send-community (both|standard|extended|large)
```

Configure neighbor attribute unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
```

```
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
```

```
                    <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor WORD attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure orf prefix capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
```

```
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
```

```
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
```

```
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure peer allow ebgp vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
```

```
                </peer-allow-ebgp-vpn><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allow-ebgp-vpn
```

Configure allow as number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
                <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
```

```
            </config>
               <afi>ipv4</afi>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
                <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
        </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
```

```
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure capability graceful restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
```

```
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure unsuppress route map name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD unsuppress-map WORD
```

Configure address-family unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
```

```
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor WORD unsuppress-map WORD
```

Configure prefix count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
             <address-families>
```

```
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <maximum-prefixes>
               <maximum-prefix> <!-- operation="delete"-->
                  <prefix-count>1</prefix-count>
                  <config>
                     <prefix-count>1</prefix-count>
                  </config>
               </maximum-prefix>
            </maximum-prefixes>
         </address-family>
      </address-families>
   </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure maximum-prefixes prefix-count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
```

```
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix> <!-- operation="delete"-->
                   <prefix-count>1</prefix-count>
                   <config>
                      <prefix-count>1</prefix-count>
                   </config>
                </maximum-prefix>
             </maximum-prefixes>
          </address-family>
       </address-families>
   </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure stop update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
             <maximum-prefixes>
             <maximum-prefix>
                <prefix-count>1</prefix-count>
                <config>
                   <prefix-count>1</prefix-count>
                </config>
                   </stop-update>
             </maximum-prefix>
          </maximum-prefixes>
       </address-family>
    </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
```

```
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
                <prefix-count>1</prefix-count>
                <config>
                    <prefix-count>1</prefix-count>
                </config>
                    </stop-update>
            </maximum-prefix>
        </maximum-prefixes>
    </address-family>
  </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </stop-update>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum prefix warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </maximum-prefix-warning>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
                </config>
                   <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix>
                   <prefix-count>1</prefix-count>
                   <config>
                      <prefix-count>1</prefix-count>
                   </config>
                      </maximum-prefix-warning>
                </maximum-prefix>
             </maximum-prefixes>
          </address-family>
       </address-families>
   </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure threshold percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
```

```
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix>
                   <prefix-count>1</prefix-count>
                   <config>
                      <prefix-count>1</prefix-count>
                   </config>
                      <threshold-percentage>1</threshold-percentage>
                </maximum-prefix>
             </maximum-prefixes>
          </address-family>
       </address-families>
   </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix threshold-percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
```

```
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  <threshold-percentage>1</threshold-percentage>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure warning only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
              <maximum-prefixes>
              <maximum-prefix>
                 <prefix-count>1</prefix-count>
                 <config>
                    <prefix-count>1</prefix-count>
                    <threshold-percentage>1</threshold-percentage>
                 </config>
                    </warning-only>
              </maximum-prefix>
           </maximum-prefixes>
        </address-family>
     </address-families>
  </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peer-groups>
       <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
             <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
          <address-family>
             <safi>unicast</safi>
             <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
             <maximum-prefixes>
             <maximum-prefix>
                <prefix-count>1</prefix-count>
                <config>
                   <prefix-count>1</prefix-count>
                   <threshold-percentage>1</threshold-percentage>
                </config>
                   </warning-only>
             </maximum-prefix>
          </maximum-prefixes>
       </address-family>
    </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure access list identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peer-groups>
       <peer-group>
          <peer-group-tag>WORD</peer-group-tag>
          <config>
             <peer-group-tag>WORD</peer-group-tag>
          </config>
          <address-families>
          <address-family>
             <safi>unicast</safi>
             <config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
             <distribute-list-filters>
             <distribute-list-filter>
                <filter-direction>in</filter-direction>
                <config>
                   <filter-direction>in</filter-direction>
                </config>
                   <access-list-identifier>WORD</access-list-identifier>
             </distribute-list-filter>
          </distribute-list-filters>
       </address-family>
    </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure filter direction

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
              <distribute-list-filters>
              <distribute-list-filter>
                 <filter-direction>in</filter-direction>
                 <config>
                    <filter-direction>in</filter-direction>
                 </config>
                    <access-list-identifier>WORD</access-list-identifier>
              </distribute-list-filter>
           </distribute-list-filters>
        </address-family>
     </address-families>
  </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure as access list identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
              <as-list-filters>
              <as-list-filter>
                 <as-list-direction>in</as-list-direction>
                 <config>
                    <as-list-direction>in</as-list-direction>
                 </config>
                    <as-access-list-identifier>WORD</as-access-list-identifier>
              </as-list-filter>
           </as-list-filters>
        </address-family>
     </address-families>
  </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure as list direction

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peer-groups>
        <peer-group>
           <peer-group-tag>WORD</peer-group-tag>
           <config>
              <peer-group-tag>WORD</peer-group-tag>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
              <as-list-filters>
              <as-list-filter>
                 <as-list-direction>in</as-list-direction>
                 <config>
                    <as-list-direction>in</as-list-direction>
                 </config>
                    <as-access-list-identifier>WORD</as-access-list-identifier>
              </as-list-filter>
           </as-list-filters>
        </address-family>
     </address-families>
  </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure safi

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpnv4|vpnv6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix-filter-direction

Attribute Type: enum (in|out)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <peer-groups>
   <peer-group>
   <address-families>
   <address-family>
      <afi>ipv4</afi>
         <safi>unicast</safi>
            <peer-group-tag>WORD</peer-group-tag>
            <prefix-list-filters>
            <prefix-list-filter>
            <config>
               <prefix-list-name>WORD</prefix-list-name>
                  <prefix-filter-direction>in</prefix-filter-direction>
               </config>
            </prefix-list-filter>
         </prefix-list-filters>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure peer group tag

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpnv4|vpnv6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix-filter-direction

Attribute Type: enum (in|out)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <peer-groups>
   <peer-group>
   <address-families>
   <address-family>
      <afi>ipv4</afi>
         <safi>unicast</safi>
            <peer-group-tag>WORD</peer-group-tag>
            <prefix-list-filters>
            <prefix-list-filter>
            <config>
               <prefix-list-name>WORD</prefix-list-name>
                  <prefix-filter-direction>in</prefix-filter-direction>
               </config>
            </prefix-list-filter>
         </prefix-list-filters>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure prefix list name

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: afi

Attribute Type: enum (ipv4|ipv6|vpnv4|vpnv6|rtfilter|l2vpn|link-state)

Attribute Name: safi

Attribute Type: enum (unicast|multicast|labeled-unicast|vpls|evpn|link-state|vpn-unicast|rtfilter-unicast|flowspec|flowspec-mpls-vpn)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix-filter-direction

Attribute Type: enum (in|out)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <peer-groups>
   <peer-group>
   <address-families>
   <address-family>
      <afi>ipv4</afi>
         <safi>unicast</safi>
            <peer-group-tag>WORD</peer-group-tag>
            <prefix-list-filters>
            <prefix-list-filter>
            <config>
               <prefix-list-name>WORD</prefix-list-name>
                  <prefix-filter-direction>in</prefix-filter-direction>
               </config>
            </prefix-list-filter>
         </prefix-list-filters>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure route map name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
      </address-family>
   </address-families>
```

```
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route map direction

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
```

```
        </address-family>
      </address-families>
  </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
```

```
            </route-map-filter>
         </route-map-filters>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
```

```
                </config>
                   <route-map-name>WORD</route-map-name>
             </route-map-filter>
          </route-map-filters>
       </address-family>
    </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure admin status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP featured

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
         </aigp>
```

```
        </address-family>
     </address-families>
  </peer-group>
  </peer-groups>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP featured

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP featured

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD aigp (disable|enable)
```

Configure aigp send med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP featured

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  </aigp-send-med><!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP featured

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  </aigp-send-med><!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP featured

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  </aigp-send-med><!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD aigp send med
```

Configure send cost community id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP featured

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <cost-community>
            <config>
                  <point-of-insertion>pre-bestpath</point-of-insertion>
                  <send-cost-community-id>0</send-cost-community-id>
            </config>
         </cost-community>
      </aigp>
   </address-family>
</address-families>
</peer-group>
</peer-groups>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
```

Configure enable transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP featured

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <aigp>
               <cost-community>
               <config>
                     <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                     <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                     </enable-transitive><!-- operation="delete"-->
               </config>
            </cost-community>
         </aigp>
      </address-family>
   </address-families>
   </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
  transitive
```

Configure point of insertion

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP featured

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peer-groups>
      <peer-group>
         <peer-group-tag>WORD</peer-group-tag>
         <config>
            <peer-group-tag>WORD</peer-group-tag>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <cost-community>
            <config>
                  <point-of-insertion>pre-bestpath</point-of-insertion>
                  <send-cost-community-id>0</send-cost-community-id>
            </config>
         </cost-community>
      </aigp>
   </address-family>
</address-families>
</peer-group>
```

```
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP featured

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <aigp>
               <cost-community>
               <config>
                     <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
```

```
                        <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                        </enable-transitive><!-- operation="delete"-->
                  </config>
               </cost-community>
            </aigp>
         </address-family>
   </address-families>
   </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
  transitive
```

Configure cost-community send-cost-community-id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP featured

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
```

```
                </config>
                   <afi>ipv4</afi>
                <aigp>
                <cost-community>
                <config>
                       <point-of-insertion>pre-bestpath</point-of-insertion>
                       <send-cost-community-id>0</send-cost-community-id>
                </config>
             </cost-community>
          </aigp>
       </address-family>
    </address-families>
    </peer-group>
    </peer-groups>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP featured

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
```

```
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <aigp>
               <cost-community>
               <config>
                     <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                     <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                     </enable-transitive><!-- operation="delete"-->
               </config>
            </cost-community>
         </aigp>
      </address-family>
   </address-families>
   </peer-group>
   </peer-groups>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD aigp send cost-community <0-255> poi (pre-bestpath|igp-cost)
      transitive
```

clear bgp peer-group WORD l2vpn evpn soft (out|in|)

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Range: 1-255

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
      <ipi-bgp-peer-group_clear-peer-group-l2vpn-evpn-soft-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
      <peer-group-tag>WORD</peer-group-tag>
      <soft-reconfig>soft-only</soft-reconfig>
      </ipi-bgp-peer-group_clear-peer-group-l2vpn-evpn-soft-all>
```

Command Syntax

```
    clear bgp peer-group WORD l2vpn evpn soft (out|in|)
```

IPI-BGP-PEER

Configure enable peer bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </enable-peer-bfd><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) fall-over bfd
```

Configure bgp as

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
              </enable-peer-bfd><!-- operation="delete"-->
        </peer>
     </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD fall-over bfd
```

Configure enable peer bfd multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </enable-peer-bfd-multihop><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) fall-over bfd multihop
```

Configure peer address

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </enable-peer-bfd-multihop><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD fall-over bfd multihop
```

Configure interface name

Configure the interface name of a BGP neighbor.

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <interface-name>WORD</interface-name> <!-- operation="delete"-->
      </peer>
```

```
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) interface WORD
```

Configure mapped peer group tag

Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               <mapped-peer-group-tag>WORD</mapped-peer-group-tag> <!--
operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) peer-group WORD
```

Configure peer mapped-peer-group-tag

Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag

Attribute Type: string

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
                <mapped-peer-group-tag>WORD</mapped-peer-group-tag> <!--
operation="delete"-->
          </peer>
       </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor WORD peergroup WORD
```

Configure tcp adjust mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
                <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
          </peer>
       </peers>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD tcp-mss <40-1440>
```

Configure peer port

Sets the BGP port number of a neighbor.

Attribute Name: peer-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <peer-port>0</peer-port> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD port <0-65535>
```

Configure min route advertisement interval

Sets a minimum route advertisement interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               <min-route-advertisement-interval>0</min-route-advertisement-interval>
<!-- operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD advertisement-interval <0-65535>
```

Configure peer as origin interval

Configures the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
         </peer>
```

```
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD as-origination-interval <1-65535>
```

Configure collide established

Include a neighbor already in an established state for conflict resolution when a TCP connection collision is detected.

Attribute Name: collide-established

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </collide-established><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD collide-established
```

Configure peer description

Associates a description with a neighbor. This helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peers>
       <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
             <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
             <peer-description>LINE</peer-description> <!-- operation="delete"-->
       </peer>
    </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD description LINE
```

Configure disallow infinite hold time

Disallow configuration of infinite hold-time. A hold-time of 0 seconds from the peer (during exchange of open messages) or the user (during configuration) will be rejected.

Attribute Name: disallow-infinite-hold-time

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peers>
       <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
             <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
             </disallow-infinite-hold-time><!-- operation="delete"-->
       </peer>
    </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD disallow-infinite-holdtime
```

Configure enforce multi hop

Turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multi-hop

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </enforce-multi-hop><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD enforce-multihop
```

Configure graceful shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               </graceful-shut><!-- operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD g-shut
```

Configure graceful shutdown timer

Configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shutdown-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               <graceful-shutdown-timer>10</graceful-shutdown-timer> <!--
operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD g-shut-timer <10-65535>
```

Configure neighbor override capability

Override a capability negotiation result and use locally configured values.

Attribute Name: neighbor-override-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </neighbor-override-capability><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD override-capability
```

Configure neighbor passive

Sets a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
```

```
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
              </neighbor-passive><!-- operation="delete"-->
        </peer>
     </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD passive
```

Configure peer restart time

Sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the grstSet attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
              <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
        </peer>
     </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD restart-time <1-3600>
```

Configure peer shutdown

Disables a neighbor administratively. It will terminate any active session for a specified neighbor and clear all related routing information. In case a peer group is specified for shutdown, a large number of peering sessions could be terminated.

Attribute Name: peer-shutdown

Attribute Type: empty

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
               <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
            </config>
               </peer-shutdown><!-- operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD shutdown (description LINE|)
```

Configure neighbor strict capability match

Close the BGP connection if capability value does not match the remote peer.

Attribute Name: neighbor-strict-capability-match

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
              </neighbor-strict-capability-match><!-- operation="delete"-->
        </peer>
     </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD strict-capability-match
```

Configure source identifier

Allows internal BGP sessions to use any operational interface for TCP connections. This attribute can be used in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
              <source-identifier>WORD</source-identifier> <!-- operation="delete"-->
        </peer>
     </peers>
  </bgp-instance>
  </bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor WORD update-source WORD
```

Configure bgp version

Configure router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD version (4)
```

Configure enable ext opt param len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
```

```
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
                </enable-ext-opt-param-len><!-- operation="delete"-->
          </peer>
       </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 neighbor WORD extended-optional-param
```

Configure peer connect interval

This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connect-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
                <peer-connect-interval>1</peer-connect-interval> <!--
operation="delete"-->
          </peer>
       </peers>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD timers connect <1-65535>
```

Configure peer as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <peer-as>-2</peer-as> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD remote-as internal
```

Configure peer peer-as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <peer-as>-1</peer-as> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD remote-as external
```

Configure peer peer-as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <peer-as>1</peer-as>
      </peer>
   </peers>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remote-as <1-4294967295>
```

Configure peer peer-as

Autonomous system number of a neighbor. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does no match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <peer-as>1</peer-as> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remote-as <1-4294967295>
```

Configure peer graceful-shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               </graceful-shut><!-- operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) g-shut
```

Configure peer graceful-shutdown-timer

Configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shutdown-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               <graceful-shutdown-timer>10</graceful-shutdown-timer> <!--
operation="delete"-->
         </peer>
```

```
    </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) g-shut-timer <10-65535>
```

Configure peer peer-restart-time

Sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the grstSet attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) restart-time <1-3600>
```

Configure peer peer-description

Associates a description with a neighbor. This helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <peer-description>LINE</peer-description> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) description LINE
```

Configure peer peer-connect-interval

This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connect-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
```

```
            </config>
               <peer-connect-interval>1</peer-connect-interval> <!--
operation="delete"-->
          </peer>
       </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) timers connect <1-65535>
```

Configure peer peer-as-origin-interval

Configures the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) as-origination-interval <1-65535>
```

Configure peer min-route-advertisement-interval

Sets a minimum route advertisement interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
               <min-route-advertisement-interval>0</min-route-advertisement-interval>
<!-- operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) advertisement-interval <0-65535>
```

Configure enable dynamic capability

Use this attribute to enable the dynamic capability for a specific peer. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
```

```
            </config>
               </enable-dynamic-capability><!-- operation="delete"-->
         </peer>
      </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability dynamic
```

Configure peer collide-established

Include a neighbor already in an established state for conflict resolution when a TCP connection collision is detected.

Attribute Name: collide-established

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </collide-established><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) collide-established
```

Configure peer source-identifier

Allows internal BGP sessions to use any operational interface for TCP connections. This attribute can be used in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <source-identifier>WORD</source-identifier> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) update-source WORD
```

Configure peer enforce-multi-hop

Turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multi-hop

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </enforce-multi-hop><!-- operation="delete"-->
      </peer>
```

```
    </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) enforce-multihop
```

Configure peer neighbor-override-capability

Override a capability negotiation result and use locally configured values.

Attribute Name: neighbor-override-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </neighbor-override-capability><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) override-capability
```

Configure peer neighbor-strict-capability-match

Close the BGP connection if capability value does not match the remote peer.

Attribute Name: neighbor-strict-capability-match

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
              </neighbor-strict-capability-match><!-- operation="delete"-->
        </peer>
     </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) strict-capability-match
```

Configure peer disallow-infinite-hold-time

Disallow configuration of infinite hold-time. A hold-time of 0 seconds from the peer (during exchange of open messages) or the user (during configuration) will be rejected.

Attribute Name: disallow-infinite-hold-time

Attribute Type: empty

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
              </disallow-infinite-hold-time><!-- operation="delete"-->
        </peer>
     </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) disallow-infinite-holdtime
```

Configure peer neighbor-passive

Sets a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            </neighbor-passive><!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) passive
```

Configure peer shutdown description

Use this attribute to send shutdown communication message to inform peer the reason for the shutdown of the BGP session.

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Attribute Name: peer-shutdown

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
                </peer-shutdown><!-- operation="delete"-->
             </config>
                <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
          </peer>
       </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor (A.B.C.D|X:X::X:X) shutdown (description LINE|)
```

Configure peer peer-port

Sets the BGP port number of a neighbor.

Attribute Name: peer-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
                <peer-port>0</peer-port> <!-- operation="delete"-->
          </peer>
       </peers>
    </bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) port <0-65535>
```

Configure peer bgp-version

Configure router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
            <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) version (4)
```

Configure peer enable-ext-opt-param-len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peers>
       <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
             <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
             </enable-ext-opt-param-len><!-- operation="delete"-->
       </peer>
    </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) extended-optional-param
```

Configure peer tcp-adjust-mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peers>
       <peer>
          <peer-address>A.B.C.D|X:X::X:X</peer-address>
          <config>
             <peer-address>BGP_IP_ADDR_T</peer-address>
          </config>
             <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
       </peer>
    </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) tcp-mss <40-1440>
```

Configure hold time

Use this attribute to globally set or reset the holdtime values for all the neighbors.

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <timers>
         <config>
                <keep-alive>0</keep-alive>
                <hold-time>0</hold-time>
         </config>
      </timers>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD timers <0-65535> <0-65535>
```

Configure keep alive

Use this attribute to globally set or reset the keepalive values for all the neighbors

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <timers>
         <config>
                <hold-time>0</hold-time>
                <keep-alive>0</keep-alive>
         </config>
      </timers>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) timers <0-65535> <0-65535>
```

Configure enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <ebgp-multihop>
            <config>
                   </enabled>
            </config>
         </ebgp-multihop>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) ebgp-multihop
```

Configure maximum hop count

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <ebgp-multihop>
            <config>
```

```
                  <maximum-hop-count>1</maximum-hop-count> <!-- operation="delete"-->
                  </enabled><!-- operation="delete"-->
            </config>
         </ebgp-multihop>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) ebgp-multihop <1-255>
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <ebgp-multihop>
         <config>
                </enabled>
         </config>
      </ebgp-multihop>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD ebgp-multihop
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <ebgp-multihop>
         <config>
                <maximum-hop-count>1</maximum-hop-count> <!-- operation="delete"-->
                </enabled><!-- operation="delete"-->
         </config>
      </ebgp-multihop>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD ebgp-multihop <1-255>
```

Configure peer local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <local-as>
         <local-as-list> <!-- operation="delete"-->
            <peer-local-as>1</peer-local-as>
            <config>
               <peer-local-as>1</peer-local-as>
            </config>
         </local-as-list>
      </local-as>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) local-as <1-4294967295>
```

Configure local-as peer-local-as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
```

```
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <local-as>
            <local-as-list> <!-- operation="delete"-->
               <peer-local-as>1</peer-local-as>
               <config>
                  <peer-local-as>1</peer-local-as>
               </config>
            </local-as-list>
         </local-as>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD local-as <1-4294967295>
```

Configure no prepend local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <local-as>
```

```
            <local-as-list>
               <peer-local-as>1</peer-local-as>
               <config>
                  <peer-local-as>1</peer-local-as>
                  </no-prepend-local-as>
                  </replace-local-as>
               </config>
            </local-as-list>
         </local-as>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure replace local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <local-as>
            <local-as-list>
               <peer-local-as>1</peer-local-as>
               <config>
```

```
                <peer-local-as>1</peer-local-as>
                </no-prepend-local-as>
                </replace-local-as>
             </config>
          </local-as-list>
       </local-as>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure auth key encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <bgp-passwords>
         <bgp-password>
            <password>WORD</password>
            <config>
               <password>WORD</password>
            </config>
               <auth-key-encrypt>1</auth-key-encrypt>
         </bgp-password>
      </bgp-passwords>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) authentication-key (0|1) WORD
```

Configure password

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <bgp-passwords>
         <bgp-password>
            <password>WORD</password>
            <config>
               <password>WORD</password>
            </config>
               <auth-key-encrypt>2</auth-key-encrypt>
         </bgp-password>
      </bgp-passwords>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) authentication-key WORD
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <bgp-passwords>
         <bgp-password>
            <password>WORD</password>
            <config>
               <password>WORD</password>
            </config>
               <auth-key-encrypt>1</auth-key-encrypt>
         </bgp-password>
      </bgp-passwords>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD authentication-key (0|1) WORD
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
```

```
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <bgp-passwords>
            <bgp-password>
               <password>WORD</password>
               <config>
                  <password>WORD</password>
               </config>
                  <auth-key-encrypt>2</auth-key-encrypt>
            </bgp-password>
         </bgp-passwords>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD authentication-key WORD
```

Configure additional paths mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
```

```
                    <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) additional-paths (send-receive|receive|send|disable)
```

Configure afi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) additional-paths (send-receive|receive|send|disable)
```

Configure safi

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) additional-paths (send-receive|receive|send|disable)
```

Configure additional path select all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </additional-path-select-all><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
```

```
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </additional-path-select-all><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) advertise additional-paths all
```

Configure address-family additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
```

```
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   </additional-path-select-all><!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) advertise additional-paths all
```

Configure additional paths best select count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
```

```
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths best <2-3>
```

Configure address-family additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) advertise additional-paths best <2-3>
```

Configure activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </activate><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
```

```
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </activate><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </activate><!-- operation="delete"-->
            </address-family>
```

```
        </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </activate><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </activate><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
```

```
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </activate><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
```

```
                  <afi>ipv4</afi>
                  </activate><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure address-family activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) activate
```

Configure de activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </de-activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </de-activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </de-activate><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
```

```
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </de-activate><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </de-activate><!-- operation="delete"-->
            </address-family>
```

```
        </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </de-activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </de-activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </de-activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
```

```
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </de-activate><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
```

```
                </config>
                   <afi>ipv4</afi>
                   </de-activate><!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 neighbor WORD de-activate
```

Configure address-family de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </de-activate><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) de-activate
```

Configure default peer route map name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </default-peer-route-map-name><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) default-originate
```

Configure address-family default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </default-peer-route-map-name><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) default-originate
```

Configure address-family default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </default-peer-route-map-name><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD default-originate
```

Configure peer route map orig name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) default-originate route-map WORD
```

Configure address-family peer-route-map-orig-name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
```

```
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) default-originate route-map WORD
```

Configure weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
```

```
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <weight>0</weight> <!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) weight <0-65535>
```

Configure address-family weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
                <weight>0</weight> <!-- operation="delete"-->
        </address-family>
    </address-families>
  </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) weight <0-65535>
```

Configure address-family weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
```

```
            </config>
               <afi>ipv4</afi>
               <weight>0</weight> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure route server client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </route-server-client><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-server-client
```

Configure address-family route-server-client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </route-server-client><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-server-client
```

Configure address-family route-server-client

This attribute configures a neighbor as the route server client for specified address-family.

Attribute Name: route-server-client

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </route-server-client><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD route-server-client
```

Configure next hop self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </next-hop-self><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
```

```
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </next-hop-self><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                </next-hop-self><!-- operation="delete"-->
          </address-family>
       </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </next-hop-self><!-- operation="delete"-->
         </address-family>
      </address-families>
```

```
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure address-family next-hop-self

This attribute configure the router as the next hop for a BGP-speaking neighbor or peer group. This attribute allows a BGP router to change the nexthop information that is sent to the iBGP peer. The nexthop information is set to the IP address of the interface used to communicate with the neighbor.

Attribute Name: next-hop-self

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </next-hop-self><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) next-hop-self
```

Configure flowspec validation disable

This attribute specifies if FLOWSPEC validiation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </flowspec-validation-disable><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validiation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </flowspec-validation-disable><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) flowspec-validation-disable
```

Configure address-family flowspec-validation-disable

This attribute specifies if FLOWSPEC validiation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
```

```
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </flowspec-validation-disable><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) flowspec-validation-disable
```

Configure peer route reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
```

```
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </peer-route-reflector><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
```

```
                <afi>ipv4</afi>
            </config>
                <afi>ipv4</afi>
                </peer-route-reflector><!-- operation="delete"-->
        </address-family>
      </address-families>
    </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
```

```
        </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local

router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-route-reflector><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </peer-route-reflector><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure address-family peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
```

```
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  </peer-route-reflector><!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD route-reflector-client
```

Configure peer remove private as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
```

```
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </peer-remove-private-as><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remove-private-AS
```

Configure address-family peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
```

```
                </peer-remove-private-as><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remove-private-AS
```

Configure address-family peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                    </peer-remove-private-as><!-- operation="delete"-->
            </address-family>
        </address-families>
    </peer>
</peers>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD remove-private-AS
```

Configure no send community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </no-send-community><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </no-send-community><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </no-send-community><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </no-send-community><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure address-family no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
```

```
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </no-send-community><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
no neighbor (A.B.C.D|X:X::X:X) send-community
```

Configure no send community type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
```

```
                    <afi>ipv4</afi>
                    <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
```

```
   </bgp>
```

Command Syntax

```
    no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure address-family no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
```

```
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     no neighbor (A.B.C.D|X:X::X:X) send-community (both|standard|extended|large)
```

Configure neighbor attribute unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
```

```
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
```

```
                    <afi>ipv4</afi>
                    <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
               </address-family>
           </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
```

```
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
```

```
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor (A.B.C.D|X:X::X:X) attribute-unchanged {as-path|next-hop|med}
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
```

```
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD attribute-unchanged
```

Configure address-family neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
```

```
                    <afi>ipv4</afi>
                    <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
               </address-family>
           </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure orf prefix capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                   <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
```

```
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure address-family orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) capability orf prefix-list (both|receive|send)
```

Configure peer allow ebgp vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </peer-allow-ebgp-vpn><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allow-ebgp-vpn
```

Configure allow as number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives

prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this

attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the

other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allowas-in <1-10>
```

Configure address-family allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP,

they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) allowas-in <1-10>
```

Configure capability graceful restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
                 </capability-graceful-restart><!-- operation="delete"-->
           </address-family>
        </address-families>
     </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
```

```
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure extended nexthop encode

A BGP speaker that wishes to advertise an IPv6 next hop for IPv4 NLRI for VPN-IPv4 NLRI to a BGP peer as per this specification MUST use the Capability Advertisement procedures defined with the Extended Next Hop Encoding capability to determine whether its peer supports this for the NLRI AFI/SAFI pair(s) of interest.

Attribute Name: extended-nexthop-encode

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
```

```
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
                </extended-nexthop-encode><!-- operation="delete"-->
          </address-family>
       </address-families>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability extended-nexthop-encode
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
```

```
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure address-family capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
               </capability-graceful-restart><!-- operation="delete"-->
         </address-family>
      </address-families>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) capability graceful-restart
```

Configure mapped peer group tag af

BGP peer group name. Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag-af

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <mapped-peer-group-tag-af>WORD</mapped-peer-group-tag-af> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) peer-group WORD
```

Configure unsuppress route map name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) unsuppress-map WORD
```

Configure address-family unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
```

```
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
                  <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
            </address-family>
         </address-families>
      </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor (A.B.C.D|X:X::X:X) unsuppress-map WORD
```

Configure address-family unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
```

```
                    <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
             </address-family>
          </address-families>
       </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor WORD unsuppress-map WORD
```

Configure prefix count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
             <address-family>
                <safi>unicast</safi>
                <config>
                   <safi>unicast</safi>
                   <afi>ipv4</afi>
                </config>
                   <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix> <!-- operation="delete"-->
                   <prefix-count>1</prefix-count>
                   <config>
                      <prefix-count>1</prefix-count>
                   </config>
                </maximum-prefix>
```

```
            </maximum-prefixes>
         </address-family>
      </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295>
```

Configure maximum-prefixes prefix-count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix> <!-- operation="delete"-->
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
            </maximum-prefix>
         </maximum-prefixes>
```

```
        </address-family>
      </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295>
```

Configure maximum-prefixes prefix-count

Use this attribute to specify maximum number of prefixes that can be received from a neighbor

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix> <!-- operation="delete"-->
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
```

```
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure stop update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix>
                    <prefix-count>1</prefix-count>
                    <config>
                        <prefix-count>1</prefix-count>
                    </config>
                        </stop-update>
                </maximum-prefix>
            </maximum-prefixes>
        </address-family>
    </address-families>
```

```
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </stop-update>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer>
```

```
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </stop-update>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer>
</peers>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </stop-update>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum prefix warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </maximum-prefix-warning>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </maximum-prefix-warning>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </maximum-prefix-warning>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure threshold percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  <threshold-percentage>1</threshold-percentage>
            </maximum-prefix>
         </maximum-prefixes>
      </address-family>
```

```
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix threshold-percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix>
                    <prefix-count>1</prefix-count>
                    <config>
                        <prefix-count>1</prefix-count>
                    </config>
```

```
                    <threshold-percentage>1</threshold-percentage>
                </maximum-prefix>
            </maximum-prefixes>
        </address-family>
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix threshold-percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
                <safi>unicast</safi>
                <config>
                    <safi>unicast</safi>
                    <afi>ipv4</afi>
                </config>
                    <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix>
```

```
                <prefix-count>1</prefix-count>
                <config>
                   <prefix-count>1</prefix-count>
                </config>
                   <threshold-percentage>1</threshold-percentage>
             </maximum-prefix>
          </maximum-prefixes>
       </address-family>
    </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure warning only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
                </config>
                   <afi>ipv4</afi>
                <maximum-prefixes>
                <maximum-prefix>
                   <prefix-count>1</prefix-count>
                   <config>
                      <prefix-count>1</prefix-count>
                      <threshold-percentage>1</threshold-percentage>
                   </config>
                      </warning-only>
                </maximum-prefix>
             </maximum-prefixes>
          </address-family>
       </address-families>
    </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <address-families>
```

```
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <maximum-prefixes>
               <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                     <prefix-count>1</prefix-count>
                     <threshold-percentage>1</threshold-percentage>
                  </config>
                     </warning-only>
               </maximum-prefix>
            </maximum-prefixes>
         </address-family>
      </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
```

```
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <maximum-prefixes>
               <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                     <prefix-count>1</prefix-count>
                     <threshold-percentage>1</threshold-percentage>
                  </config>
                     </warning-only>
               </maximum-prefix>
            </maximum-prefixes>
         </address-family>
      </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure access list identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
```

```
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <distribute-list-filters>
               <distribute-list-filter>
                  <filter-direction>in</filter-direction>
                  <config>
                     <filter-direction>in</filter-direction>
                  </config>
                     <access-list-identifier>WORD</access-list-identifier>
               </distribute-list-filter>
            </distribute-list-filters>
         </address-family>
      </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) distribute-list WORD (in|out)
```

Configure filter direction

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
```

```
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <distribute-list-filters>
               <distribute-list-filter>
                  <filter-direction>in</filter-direction>
                  <config>
                     <filter-direction>in</filter-direction>
                  </config>
                     <access-list-identifier>WORD</access-list-identifier>
               </distribute-list-filter>
            </distribute-list-filters>
         </address-family>
      </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) distribute-list WORD (in|out)
```

Configure distribute-list-filter access-list-identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
```

```
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <distribute-list-filters>
            <distribute-list-filter>
               <filter-direction>in</filter-direction>
               <config>
                  <filter-direction>in</filter-direction>
               </config>
                  <access-list-identifier>WORD</access-list-identifier>
            </distribute-list-filter>
         </distribute-list-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure as access list identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
```

```
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <as-list-filters>
            <as-list-filter>
               <as-list-direction>in</as-list-direction>
               <config>
                  <as-list-direction>in</as-list-direction>
               </config>
                  <as-access-list-identifier>WORD</as-access-list-identifier>
            </as-list-filter>
         </as-list-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) filter-list WORD (in|out)
```

Configure as list direction

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
```

```
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <as-list-filters>
            <as-list-filter>
               <as-list-direction>in</as-list-direction>
               <config>
                  <as-list-direction>in</as-list-direction>
               </config>
                  <as-access-list-identifier>WORD</as-access-list-identifier>
            </as-list-filter>
         </as-list-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) filter-list WORD (in|out)
```

Configure as-list-filter as-access-list-identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
```

```
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <as-list-filters>
            <as-list-filter>
               <as-list-direction>in</as-list-direction>
               <config>
                  <as-list-direction>in</as-list-direction>
               </config>
                  <as-access-list-identifier>WORD</as-access-list-identifier>
            </as-list-filter>
         </as-list-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure prefix list name

This attribute specify a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
              <prefix-list-filters>
              <prefix-list-filter>
                 <prefix-filter-direction>in</prefix-filter-direction>
                 <config>
                    <prefix-filter-direction>in</prefix-filter-direction>
                 </config>
                    <prefix-list-name>WORD</prefix-list-name>
              </prefix-list-filter>
           </prefix-list-filters>
        </address-family>
     </address-families>
  </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) prefix-list WORD (in|out)
```

Configure prefix filter direction

This attribute specify a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <peers>
        <peer>
           <peer-address>A.B.C.D|X:X::X:X</peer-address>
           <config>
              <peer-address>BGP_IP_ADDR_T</peer-address>
           </config>
           <address-families>
           <address-family>
              <safi>unicast</safi>
              <config>
                 <safi>unicast</safi>
                 <afi>ipv4</afi>
              </config>
                 <afi>ipv4</afi>
              <prefix-list-filters>
              <prefix-list-filter>
                 <prefix-filter-direction>in</prefix-filter-direction>
                 <config>
                    <prefix-filter-direction>in</prefix-filter-direction>
                 </config>
                    <prefix-list-name>WORD</prefix-list-name>
              </prefix-list-filter>
           </prefix-list-filters>
        </address-family>
     </address-families>
  </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure prefix-list-filter prefix-list-name

This attribute specify a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <prefix-list-filters>
            <prefix-list-filter>
               <prefix-filter-direction>in</prefix-filter-direction>
               <config>
                  <prefix-filter-direction>in</prefix-filter-direction>
               </config>
                  <prefix-list-name>WORD</prefix-list-name>
            </prefix-list-filter>
         </prefix-list-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) prefix-list WORD (in|out)
```

Configure prefix-list-filter prefix-list-name

This attribute specify a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match. The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny

occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <prefix-list-filters>
            <prefix-list-filter>
               <prefix-filter-direction>in</prefix-filter-direction>
               <config>
                  <prefix-filter-direction>in</prefix-filter-direction>
               </config>
                  <prefix-list-name>WORD</prefix-list-name>
            </prefix-list-filter>
         </prefix-list-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) prefix-list WORD (in|out)
```

Configure route map name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure route map direction

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
      </address-family>
   </address-families>
</peer>
</peers>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
      </address-family>
   </address-families>
```

```
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
```

```
        </address-family>
      </address-families>
  </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure route-map-filter route-map-name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
```

```
            </route-map-filter>
         </route-map-filters>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) route-map WORD (in|out)
```

Configure admin status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
```

```
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp (disable|enable)
```

Configure aigp admin-status

Enable or disable AIGP

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  <admin-status>disable</admin-status> <!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp (disable|enable)
```

Configure aigp send med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  </aigp-send-med><!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  </aigp-send-med><!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) aigp send med
```

Configure aigp aigp-send-med

Enable AIGP send multi exit discriminator.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: aigp-send-med

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <config>
                  </aigp-send-med><!-- operation="delete"-->
            </config>
         </aigp>
      </address-family>
   </address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) aigp send med
```

Configure send cost community id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <cost-community>
            <config>
                  <point-of-insertion>pre-bestpath</point-of-insertion>
                  <send-cost-community-id>0</send-cost-community-id>
            </config>
         </cost-community>
      </aigp>
   </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
  cost)
```

Configure enable transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <aigp>
               <cost-community>
               <config>
                     <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                     <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                     </enable-transitive><!-- operation="delete"-->
               </config>
            </cost-community>
         </aigp>
      </address-family>
   </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-cost) transitive
```

Configure point of insertion

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <cost-community>
            <config>
                  <point-of-insertion>pre-bestpath</point-of-insertion>
                  <send-cost-community-id>0</send-cost-community-id>
            </config>
         </cost-community>
      </aigp>
   </address-family>
</address-families>
</peer>
```

```
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
  cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
         <config>
            <peer-address>BGP_IP_ADDR_T</peer-address>
         </config>
         <address-families>
         <address-family>
            <safi>unicast</safi>
            <config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <afi>ipv4</afi>
            <aigp>
            <cost-community>
            <config>
```

```
                        <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                        <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                        </enable-transitive><!-- operation="delete"-->
                  </config>
               </cost-community>
            </aigp>
         </address-family>
   </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
  cost) transitive
```

Configure cost-community send-cost-community-id

Send AIGP value in Cost community. And get the Community ID.

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
```

```
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <afi>ipv4</afi>
             <aigp>
             <cost-community>
             <config>
                    <point-of-insertion>pre-bestpath</point-of-insertion>
                    <send-cost-community-id>0</send-cost-community-id>
             </config>
          </cost-community>
       </aigp>
    </address-family>
</address-families>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
  cost)
```

Configure cost-community enable-transitive

Send AIGP value in Cost community and Enable Transitive Cost Community

This command is supported when following feature are enabled AIGP feature enabled

Attribute Name: enable-transitive

Attribute Type: uint8

Attribute Name: send-cost-community-id

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: point-of-insertion

Attribute Type: enum (pre-bestpath|igp-cost)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
      <peer>
         <peer-address>A.B.C.D|X:X::X:X</peer-address>
```

```
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <address-families>
            <address-family>
               <safi>unicast</safi>
               <config>
                  <safi>unicast</safi>
                  <afi>ipv4</afi>
               </config>
                  <afi>ipv4</afi>
               <aigp>
               <cost-community>
               <config>
                     <send-cost-community-id>0</send-cost-community-id> <!--
operation="delete"-->
                     <point-of-insertion>pre-bestpath</point-of-insertion> <!--
operation="delete"-->
                     </enable-transitive><!-- operation="delete"-->
               </config>
            </cost-community>
         </aigp>
      </address-family>
   </address-families>
   </peer>
   </peers>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) aigp send cost-community <0-255> poi (pre-bestpath|igp-
  cost) transitive
```

clear ip bgp * (description LINE|)

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
      <ipi-bgp-peer_clear-ip-bgp-all-peer xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-bgp">
      <peer-reset-description>1</peer-reset-description>
      </ipi-bgp-peer_clear-ip-bgp-all-peer>
```

Command Syntax

```
clear ip bgp * (description LINE|)
```

clear bgp * l2vpn evpn soft (out|in|)

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
       <ipi-bgp-peer_clear-bgp-l2vpn-evpn-soft-all xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-bgp">
       <soft-reconfig>soft-only</soft-reconfig>
       </ipi-bgp-peer_clear-bgp-l2vpn-evpn-soft-all>
```

Command Syntax

```
    clear bgp * l2vpn evpn soft (out|in|)
```

clear bgp <1-4294967295> l2vpn evpn soft (out|in|)

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
       <ipi-bgp-peer_clear-bgp-remote-as-l2vpn-evpn-soft-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
       <peer-as>1</peer-as>
       <soft-reconfig>soft-only</soft-reconfig>
       </ipi-bgp-peer_clear-bgp-remote-as-l2vpn-evpn-soft-all>
```

Command Syntax

```
    clear bgp <1-4294967295> l2vpn evpn soft (out|in|)
```

clear bgp (A.B.C.D|X:X::X:X|WORD) l2vpn evpn soft (out|in|)

Attribute Name: peer-address

Attribute Type: union

Attribute Name: soft-reconfig

Attribute Type: enum (out|in|soft-only)

Netconf RPC payload

```
       <ipi-bgp-peer_clear-bgp-peer-address-l2vpn-evpn-soft xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
       <peer-address>BGP_IP_ADDR_T</peer-address>
       <soft-reconfig>soft-only</soft-reconfig>
       </ipi-bgp-peer_clear-bgp-peer-address-l2vpn-evpn-soft>
```

Command Syntax

```
clear bgp (A.B.C.D|X:X::X:X|WORD) l2vpn evpn soft (out|in|)
```

IPI-BGP-ADDRESS-FAMILY-VRF

Configure enable auto summary

Use this attribute to enable sending summarized routes by a BGP speaker to its peers. Auto-summary is used by a BGP router to advertise summarized routes to its peers. Auto-summary can be enabled if certain routes have already been advertised: in this case, configuring auto-summary advertises the summarized routes first, then corresponding non-summarized routes are withdrawn. If certain routes have already been advertised, and auto-summary is disabled, non-summarized routes are first advertised, then the corresponding summarized routes are withdrawn from all the connected peers.

Attribute Name: enable-auto-summary

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            </enable-auto-summary><!-- operation="delete"-->
      </address-family-vrf>
   </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
auto-summary
```

Configure enable network igp sync

Use this attribute to enable IGP synchronization for BGP static network routes

Attribute Name: enable-network-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            </enable-network-igp-sync><!-- operation="delete"-->
      </address-family-vrf>
   </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 network synchronization
```

Configure enable igp sync

Use this attribute to enable IGP synchronization of Internal BGP (iBGP) learned routes with the Internal Gateway Protocol (IGP) system. Synchronization is used when a BGP router should not advertise routes learned from iBGP neighbors, unless those routes are also present in an IGP (for example, OSPF). Synchronization may be enabled when all the routers in an autonomous system do not speak BGP, and the autonomous system is a transit for other autonomous systems.

Attribute Name: enable-igp-sync

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
              </enable-igp-sync><!-- operation="delete"-->
        </address-family-vrf>
     </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 synchronization
```

Configure multipath relax

This attribute to specifies a BGP as-path relax configuration.

Attribute Name: multipath-relax

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
              </multipath-relax><!-- operation="delete"-->
        </address-family-vrf>
     </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
```

```
</bgp>
```

Command Syntax

```
bgp bestpath as-path multipath-relax
```

Configure graceful shutdown

Gracefully shut down all sessions of the AFI/SAFI beloging to the vrf under this router. The BGP graceful shutdown feature reduces packet loss during maintenance activity.

Attribute Name: graceful-shutdown

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            </graceful-shutdown><!-- operation="delete"-->
      </address-family-vrf>
   </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp g-shut
```

Configure graceful shutdown capable

This attribute to enable the graceful shutdown capability

Attribute Name: graceful-shutdown-capable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            </graceful-shutdown-capable><!-- operation="delete"-->
      </address-family-vrf>
   </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp g-shut-capable
```

Configure graceful shutdown local preference

This attribute sets the local preference of the router to use during graceful shutdown. The local preference value indicates the preferred path when there are multiple paths to the same destination in a single routing database. The path with a higher preference value is the preferred one. The preferred path is sent to all routers and access servers in the local autonomous system.

Attribute Name: graceful-shutdown-local-preference

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
```

```
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
                <graceful-shutdown-local-preference>0</graceful-shutdown-local-
preference> <!-- operation="delete"-->
          </address-family-vrf>
       </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 bgp g-shut-local-preference <0-4294967295>
```

Configure additional path select all

Use this attribute to select criteria to pick the paths

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
                </additional-path-select-all><!-- operation="delete"-->
          </address-family-vrf>
       </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
bgp additional-paths select all
```

Configure additional paths mode

Use this attribute to add additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
            <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
      </address-family-vrf>
   </address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp additional-paths (send-receive|receive|send)
```

Configure enable pic

Use this attribute to enable the additional paths in the BGP table,install the indirect nexthop in RIB

Attribute Name: enable-pic

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
```

```
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
              </enable-pic><!-- operation="delete"-->
        </address-family-vrf>
     </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 bgp additional-paths install
```

Configure additional paths best select count

Use this attribute to select best N paths

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
```

```
                <additional-paths-best-select-count>2</additional-paths-best-select-
count> <!-- operation="delete"-->
          </address-family-vrf>
       </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    bgp additional-paths select best <2-3>
```

Configure local

Use this attribute to specify distance value for local routes

Attribute Name: local

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <distances>
            <distance> <!-- operation="delete"-->
               <local>1</local>
               <config>
                  <local>1</local>
                  <ibgp>1</ibgp>
                  <ebgp>1</ebgp>
               </config>
                  <ibgp>1</ibgp>
                  <ebgp>1</ebgp>
            </distance>
         </distances>
      </address-family-vrf>
```

```
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
distance bgp <1-255> <1-255> <1-255>
```

Configure aggregate address

Aggregates are used to minimize the size of routing tables. Aggregation combines the characteristics of several different routes and advertises a single route.The aggregate-address attribute creates an aggregate entry in the BGP routing table if any more-specific BGP routes are available in the specified range.

Attribute Name: aggregate-address

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list> <!-- operation="delete"-->
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address A.B.C.D/M
```

Configure bgp as

Aggregates are used to minimize the size of routing tables. Aggregation combines the characteristics of several different routes and advertises a single route.The aggregate-address attribute creates an aggregate entry in the BGP routing table if any more-specific BGP routes are available in the specified range.

Attribute Name: aggregate-address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list> <!-- operation="delete"-->
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address (X:X::X:X/M)
```

Configure aggregate type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
               <aggregate-type>1</aggregate-type> <!-- operation="delete"-->
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 aggregate-address A.B.C.D/M as-set
```

Configure afi

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
               <aggregate-type>1</aggregate-type> <!-- operation="delete"-->
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 aggregate-address (X:X::X:X/M) as-set
```

Configure safi

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
               <aggregate-type>2</aggregate-type> <!-- operation="delete"-->
         </aggregate-address-list>
      </aggregate-address-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address A.B.C.D/M summary-only
```

Configure vrf name

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
```

```
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <aggregate-address-lists>
           <aggregate-address-list>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              <config>
                 <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
              </config>
                 <aggregate-type>2</aggregate-type> <!-- operation="delete"-->
           </aggregate-address-list>
        </aggregate-address-lists>
     </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 aggregate-address (X:X::X:X/M) summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
```

```
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <aggregate-address-lists>
             <aggregate-address-list>
                <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
                <config>
                   <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
                </config>
                   <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
             </aggregate-address-list>
          </aggregate-address-lists>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
aggregate-address A.B.C.D/M as-set summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
```

```
            <afi>ipv4</afi>
          <aggregate-address-lists>
          <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
              <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
              <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
          </aggregate-address-list>
        </aggregate-address-lists>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address (X:X::X:X/M) as-set summary-only
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
```

```
                <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
                <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
        </aggregate-address-list>
      </aggregate-address-lists>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address A.B.C.D/M summary-only as-set
```

Configure aggregate-address-list aggregate-type

The aggregate-type attribute creates an aggregate entry advertising the path for this route, consisting of all elements contained in all paths being summarized. Use this parameter to reduce the size of path information by listing the AS number only once, even if it was included in multiple paths that were aggregated.

Attribute Name: aggregate-type

Attribute Type: enum (as-set|summary-only|as-set-and-summary-only)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <aggregate-address-lists>
         <aggregate-address-list>
            <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            <config>
               <aggregate-address>CML_IP_PREFIX_T</aggregate-address>
            </config>
               <aggregate-type>3</aggregate-type> <!-- operation="delete"-->
         </aggregate-address-list>
      </aggregate-address-lists>
```

```
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
aggregate-address (X:X::X:X/M) summary-only as-set
```

Configure ebgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <maximum-paths>
         <config>
                <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
         </config>
      </maximum-paths>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
max-paths ebgp <2-64>
```

Configure maximum-paths ebgp-max-path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for eBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path

Attribute Name: ebgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <maximum-paths>
         <config>
                <ebgp-max-path>2</ebgp-max-path> <!-- operation="delete"-->
         </config>
      </maximum-paths>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 max-paths ebgp <2-64>
```

Configure ibgp max path

Use this attribute to set the number of equal-cost multi-path (ECMP) routes for iBGP. You can install multiple BGP paths to the same destination to balance the load on the forwarding path.

Attribute Name: ibgp-max-path

Attribute Type: int32

Attribute Range: 2-64

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <maximum-paths>
         <config>
                <ibgp-max-path>2</ibgp-max-path> <!-- operation="delete"-->
         </config>
      </maximum-paths>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 max-paths ibgp <2-64>
```

Configure map name

Use this attribute to enable or disable suppression/modification of incoming BGP updates to IP RIB/FIB table installation. In a dedicated route reflector, all the routes it receives may not be required to be stored or only few selected routes need to be stored, because it may not lie in the data path. Table maps are particularly useful to attain this restriction. When map-name attribute is set, the route map referenced in the map-name attribute shall be used to set certain properties (such as the traffic index) of the routes for installation into the RIB. The route is always downloaded, regardless of whether it is permitted or denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <address-family-vrfs>
       <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
             <vrf-name>WORD</vrf-name>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          </config>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          <table-map>
          <config>
                <map-name>WORD</map-name>
          </config>
       </table-map>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 table-map WORD
```

Configure table map filter

When tableMapFilter attribute is given in the table map attribute, the route map referenced is used to control whether a BGP route is to be downloaded to the IP RIB (hence the filter). A BGP route is not downloaded to the RIB if it is denied by the route map.

This command is supported when following feature are enabled bgp table map feature enabled

Attribute Name: table-map-filter

Attribute Type: boolean

Attribute Name: map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
```

```
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <table-map>
             <config>
                    <map-name>WORD</map-name> <!-- operation="delete"-->
                    <table-map-filter>true</table-map-filter> <!-- operation="delete"--
>
             </config>
          </table-map>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     table-map WORD filter
```

Configure enable dampening

Use this attribute to enable route flap dampening

Attribute Name: enable-dampening

Attribute Type: enum (enable-dampening)

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
```

```
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening> <!-- operation="delete"-->
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
            </config>
         </route-flap-dampening>
      </route-flap-dampenings>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp dampening
```

Configure reach half life

Use this attribute to configure reachability half-life time for the penalty in minutes for the bgp route dampening. The time for the penalty to decrease to one-half of its current value.

Attribute Name: reach-half-life

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-45

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening>
```

```
                <enable-dampening>enable-dampening</enable-dampening>
                <config>
                    <enable-dampening>enable-dampening</enable-dampening>
                </config>
                    <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
            </route-flap-dampening>
        </route-flap-dampenings>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
bgp dampening <1-45>
```

Configure max suppress time

Use this attribute to configure the value to start suppressing a route for BGP route dampening. When the penalty for a route exceeds the suppress value, the route is suppressed

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
```

```
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <route-flap-dampenings>
             <route-flap-dampening>
                <enable-dampening>enable-dampening</enable-dampening>
                <config>
                   <enable-dampening>enable-dampening</enable-dampening>
                   <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
                   <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
                   <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
                </config>
                   <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
             </route-flap-dampening>
          </route-flap-dampenings>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
bgp dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure unreach half life

Use this attribute to configure un-reachability half-life time for the penalty in minutes for bgp route dampening. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.

Attribute Name: unreach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reach-half-life

Attribute Type: uint32

Attribute Range: 1-45

Attribute Name: reuse-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: suppress-penalty

Attribute Type: uint32

Attribute Range: 1-20000

Attribute Name: max-suppress-time

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <route-flap-dampenings>
         <route-flap-dampening>
            <enable-dampening>enable-dampening</enable-dampening>
            <config>
               <enable-dampening>enable-dampening</enable-dampening>
               <reach-half-life>1</reach-half-life> <!-- operation="delete"-->
               <reuse-penalty>1</reuse-penalty> <!-- operation="delete"-->
               <suppress-penalty>1</suppress-penalty> <!-- operation="delete"-->
               <max-suppress-time>1</max-suppress-time> <!-- operation="delete"-->
            </config>
               <unreach-half-life>1</unreach-half-life> <!-- operation="delete"-->
         </route-flap-dampening>
      </route-flap-dampenings>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure dampening rmap name

Use this attribute to configure route map to specify criteria for dampening.

Attribute Name: dampening-rmap-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <route-flap-dampenings>
            <route-flap-dampening>
               <enable-dampening>enable-dampening</enable-dampening>
               <config>
                  <enable-dampening>enable-dampening</enable-dampening>
               </config>
                  <dampening-rmap-name>WORD</dampening-rmap-name> <!--
operation="delete"-->
            </route-flap-dampening>
         </route-flap-dampenings>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    bgp dampening route-map WORD
```

Configure protocol type

Use this attribute to inject routes from one routing process into another. Redistribution is used by routing protocols to advertise routes that are learned by some other means, such as by another routing protocol or by static routes. Since all internal routes are dumped into BGP, careful filtering is applied to make sure that only routes to be advertised reach the internet, not everything. This attribute allows redistribution by injecting prefixes from one routing protocol into another routing protocol.

Attribute Name: protocol-type

Attribute Type: enum (connected|static|rip|ospf|isis|connected-host-routes)

Attribute Name: redist-route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <route-redistribute-lists>
         <route-redistribute-list> <!-- operation="delete"-->
            <protocol-type>connected</protocol-type>
            <config>
               <protocol-type>connected</protocol-type>
               <redist-route-map-name>WORD</redist-route-map-name>
            </config>
         </route-redistribute-list>
      </route-redistribute-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|isis|connected-host-routes) (route-map
  WORD|)
```

Configure bgpSRv6enable

This attribute enable Segment Routing V6

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: bgpSRv6enable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <address-family-vrfs>
       <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
             <vrf-name>WORD</vrf-name>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          </config>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          <bgp-srv6>
          <config>
                </bgpSRv6enable>
          </config>
       </bgp-srv6>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 segment-routing srv6
```

Configure sid alloc type

sid-alloc

This command is supported when following feature are enabled Segment routing V6 feature

Attribute Name: sid-alloc-type

Attribute Type: enum (per-vrf)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
```

```
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <bgp-srv6>
            <sid-alloc-mode>
            <config>
                   <sid-alloc-type>per-vrf</sid-alloc-type> <!-- operation="delete"-->
            </config>
         </sid-alloc-mode>
      </bgp-srv6>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 sid-alloc (per-vrf)
```

Configure ospf instance number

Use this attribute to inject routes from one routing process into another. Redistribution is used by routing protocols to advertise routes that are learned by some other means, such as by another routing protocol or by static routes. Since all internal routes are dumped into BGP, careful filtering is applied to make sure that only routes to be advertised reach the internet, not everything. This attribute allows redistribution by injecting prefixes from one routing protocol into another routing protocol.

Attribute Name: ospf-instance-number

Attribute Type: union

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
            <bgp-redistribute-ospfs>
            <bgp-redistribute-ospf> <!-- operation="delete"-->
               <ospf-instance-number>""</ospf-instance-number>
               <config>
                  <ospf-instance-number>""</ospf-instance-number>
               </config>
            </bgp-redistribute-ospf>
         </bgp-redistribute-ospfs>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 redistribute (ospf) (WORD|<1-65535>)
```

Configure redistribute ospf route map

Use this attribute to specify route map to redistribute routes from OSPF into BGP.

Attribute Name: redistribute-ospf-route-map

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <bgp-redistribute-ospfs>
            <bgp-redistribute-ospf>
               <ospf-instance-number>""</ospf-instance-number>
               <config>
                  <ospf-instance-number>""</ospf-instance-number>
               </config>
```

```
                    <redistribute-ospf-route-map>WORD</redistribute-ospf-route-map> <!-
- operation="delete"-->
             </bgp-redistribute-ospf>
          </bgp-redistribute-ospfs>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     redistribute (ospf) route-map WORD
```

Configure peer as

This attribute specifies a neighbors autonomous system number. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does not match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <vrf-peers>
             <vrf-peer>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                   <peer-as>1</peer-as>
             </vrf-peer>
          </vrf-peers>
```

```
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) remote-as <1-4294967295>
```

Configure peer address

This attribute specifies a neighbors autonomous system number. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does not match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <peer-as>1</peer-as> <!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
```

```
   </bgp>
```

Command Syntax

```
    neighbor remote-as <1-4294967295>
```

Configure source identifier

This attribute allows internal BGP sessions to use any operational interface for TCP connections. Use this attribute in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <source-identifier>WORD</source-identifier> <!--
operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor update-source WORD
```

Configure bgp version

BGP Version. This attribute configures router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Using this attribute disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor version (4)
```

Configure peer connection interval

Connect timer value. This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connection-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <peer-connection-interval>1</peer-connection-interval> <!--
operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor timers connect <1-65535>
```

Configure enforce multihop

This attribute turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </enforce-multihop><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor enforce-multihop
```

Configure peer shutdown

This attribute disables a neighbor administratively. Use this attribute to terminate any active session for a specified neighbor and clear all related routing information. In case a peer group is specified for shutdown, a large number of peering sessions could be terminated.

Attribute Name: peer-shutdown

Attribute Type: uint8

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
                  <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
               </config>
                  </peer-shutdown><!-- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor shutdown (description LINE|)
```

Configure neighbor passive

Use this attribute to set a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </neighbor-passive><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor passive
```

Configure enable dynamic capability

Use this attribute to enable the dynamic capability for a specific peer. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  </enable-dynamic-capability><!-- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor capability dynamic
```

Configure min route advertisement interval

Minimum route advertisement interval. Sets minimum interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds. BGP dampening can also be used to control the effects of flapping routes.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
```

```
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <min-route-advertisement-interval>0</min-route-advertisement-
interval> <!-- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor advertisement-interval <0-65535>
```

Configure peer as origin interval

Time interval. This attribute adjust the interval of sending AS origination routing updates. This attribute is used to change the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
```

```
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <vrf-peers>
             <vrf-peer>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                   <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
             </vrf-peer>
          </vrf-peers>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor as-origination-interval <1-65535>
```

Configure neighbor as override

Use this attribute to configure a PE router to override the Autonomous System Number (ASN) of a site with the ASN of a provider. BGP normally ignores the routes from the same AS. However, this attribute is used to override the customers ASN in BGP, so that the customer CE accepts and installs routes from the same AS. Typically, this attribute is used when Customer Edge (CE) routers have the same ASN in some or all sites. As per BGP requirement, a BGP speaker rejects a route that has the same ASN as itself, in the AS_PATH attribute. Thus the CE routers having the same ASN do not accept routes from each other. Set neighborAsOverrideAf attribute on the PE router removes the CE neighbors ASN from the AS_PATH attribute allowing CE routers with the same ASN to accept routes from each other.

Attribute Name: neighbor-as-override

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  </neighbor-as-override><!-- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor as-override
```

Configure peer interface name

Interface name. Configures IP address or IPv6 address on interface

Attribute Name: peer-interface-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
```

```
                    <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                    <peer-interface-name>WORD</peer-interface-name> <!--
operation="delete"-->
             </vrf-peer>
          </vrf-peers>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor (A.B.C.D|X:X::X:X) interface WORD
```

Configure peer description

Use this attribute to associate a description with a neighbor. This attribute helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <vrf-peers>
             <vrf-peer>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                   <peer-description>LINE</peer-description> <!-- operation="delete"--
>
             </vrf-peer>
          </vrf-peers>
```

```
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor description LINE
```

Configure peer restart time

This attribute sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the graceful-restart-set attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                    <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                    <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
            </vrf-peer>
        </vrf-peers>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor restart-time <1-3600>
```

Configure site origin identifier

Use this attribute to enable the site-of-origin (SOO) feature. If the customer AS is multi-homed to the ISP, this attribute ensures that the PE does not advertise the routes back to the same AS.

Attribute Name: site-origin-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <site-origin-identifier>AS:nn_or_IP:nn</site-origin-identifier> <!-
- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor soo AS:nn_or_IP:nn
```

Configure graceful shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </graceful-shut><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor g-shut
```

Configure graceful shut timer

Use this attribute to configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shut-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <graceful-shut-timer>10</graceful-shut-timer> <!--
operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor g-shut-timer <10-65535>
```

Configure bgp port

The BGP port number of a neighbor

Attribute Name: bgp-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <bgp-port>0</bgp-port> <!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor port <0-65535>
```

Configure enable ext opt param len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
```

```
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <vrf-peers>
           <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                 <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                 </enable-ext-opt-param-len><!-- operation="delete"-->
           </vrf-peer>
        </vrf-peers>
     </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 neighbor extended-optional-param
```

Configure vrf-peer additional-paths-mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
```

```
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <vrf-peers>
             <vrf-peer>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                   <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
             </vrf-peer>
          </vrf-peers>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor additional-paths (send-receive|receive|send|disable)
```

Configure vrf-peer additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
```

```
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                   </additional-path-select-all><!-- operation="delete"-->
             </vrf-peer>
          </vrf-peers>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor advertise additional-paths all
```

Configure vrf-peer additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
```

```
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor advertise additional-paths best <2-3>
```

Configure tcp adjust mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor tcp-mss <40-1440>
```

Configure enable peer bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </enable-peer-bfd><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor fall-over bfd
```

Configure enable peer bfd multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </enable-peer-bfd-multihop><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor fall-over bfd multihop
```

Configure activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </activate><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor activate
```

Configure vrf-peer activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  </activate><!-- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor activate
```

Configure flowspec validation disable

This attribute specifies if FLOWSPEC validation should be disabled for a specific peer. By default, the flowspec validation is enabled, unless this option is specified.

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
```

```
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </flowspec-validation-disable><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor flowspec-validation-disable
```

Configure vrf-peer activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
```

```
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  </activate><!-- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor activate
```

Configure de activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  </de-activate><!-- operation="delete"-->
```

```
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor de-activate
```

Configure vrf-peer de-activate

Deactivate neighbor. This attribute disables the exchange of AF information with a neighboring router.

Attribute Name: de-activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </de-activate><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor de-activate
```

Configure default peer route map name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </default-peer-route-map-name><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor default-originate
```

Configure peer route map orig name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor default-originate route-map WORD
```

Configure weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one

peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <weight>0</weight> <!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor weight <0-65535>
```

Configure vrf-peer weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one

peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <weight>0</weight> <!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor weight <0-65535>
```

Configure peer route reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous

system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </peer-route-reflector><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor route-reflector-client
```

Configure vrf-peer peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </peer-route-reflector><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor route-reflector-client
```

Configure peer remove private as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </peer-remove-private-as><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor remove-private-AS
```

Configure no send community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <vrf-peers>
           <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                 <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
                 </no-send-community><!-- operation="delete"-->
           </vrf-peer>
        </vrf-peers>
     </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 no neighbor send-community
```

Configure no send community type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
```

```
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <vrf-peers>
             <vrf-peer>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                   <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
             </vrf-peer>
          </vrf-peers>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor send-community (both|standard|extended|large)
```

Configure neighbor attribute unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
            </vrf-peer>
         </vrf-peers>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor attribute-unchanged
```

Configure vrf-peer neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
```

```
                    <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
             </vrf-peer>
          </vrf-peers>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor attribute-unchanged {as-path|next-hop|med}
```

Configure orf prefix capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
                  <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
            </vrf-peer>
         </vrf-peers>
```

```
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor capability orf prefix-list (both|receive|send)
```

Configure peer allow ebgp vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </peer-allow-ebgp-vpn><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor allow-ebgp-vpn
```

Configure allow as number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor allowas-in <1-10>
```

Configure capability graceful restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               </capability-graceful-restart><!-- operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor capability graceful-restart
```

Configure mapped peer group tag af

BGP peer group name. Adds a neighbor to an existing peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: mapped-peer-group-tag-af

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
               <mapped-peer-group-tag-af>WORD</mapped-peer-group-tag-af> <!--
operation="delete"-->
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-group WORD
```

Configure unsuppress route map name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <vrf-peers>
             <vrf-peer>
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                   <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
             </vrf-peer>
          </vrf-peers>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor unsuppress-map WORD
```

Configure hold time

Use this attribute to globally set or reset the holdtime values for all the neighbors.

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <timers>
            <config>
                  <keep-alive>0</keep-alive>
                  <hold-time>0</hold-time>
            </config>
         </timers>
      </vrf-peer>
   </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor timers <0-65535> <0-65535>
```

Configure enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <ebgp-multihop>
            <config>
                  </enabled>
            </config>
         </ebgp-multihop>
      </vrf-peer>
   </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor ebgp-multihop
```

Configure maximum hop count

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
               <ebgp-multihop>
               <config>
                     <maximum-hop-count>1</maximum-hop-count> <!--
operation="delete"-->
                     </enabled><!-- operation="delete"-->
               </config>
            </ebgp-multihop>
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor ebgp-multihop <1-255>
```

Configure prefix count

This attribute specifies number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <maximum-prefixes>
            <maximum-prefix> <!-- operation="delete"-->
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
            </maximum-prefix>
         </maximum-prefixes>
      </vrf-peer>
   </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295>
```

Configure stop update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </stop-update>
            </maximum-prefix>
         </maximum-prefixes>
      </vrf-peer>
   </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> stop-update
```

Configure maximum prefix warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  </maximum-prefix-warning>
            </maximum-prefix>
         </maximum-prefixes>
      </vrf-peer>
   </vrf-peers>
```

```
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> warning-only
```

Configure threshold percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
```

```
                </config>
                   <threshold-percentage>1</threshold-percentage>
             </maximum-prefix>
          </maximum-prefixes>
       </vrf-peer>
    </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> <1-100>
```

Configure warning only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
```

```
            </config>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
                  <threshold-percentage>1</threshold-percentage>
               </config>
                  </warning-only>
            </maximum-prefix>
         </maximum-prefixes>
      </vrf-peer>
   </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure auth key encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
```

```
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                <bgp-passwords>
                <bgp-password>
                   <password>WORD</password>
                   <config>
                      <password>WORD</password>
                   </config>
                      <auth-key-encrypt>1</auth-key-encrypt>
                </bgp-password>
             </bgp-passwords>
          </vrf-peer>
       </vrf-peers>
    </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor authentication-key (0|1) WORD
```

Configure password

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
```

```
                <peer-address>CML_IP_ADDR_T</peer-address>
                <config>
                   <peer-address>CML_IP_ADDR_T</peer-address>
                </config>
                <bgp-passwords>
                <bgp-password>
                   <password>WORD</password>
                   <config>
                      <password>WORD</password>
                   </config>
                      <auth-key-encrypt>2</auth-key-encrypt>
                </bgp-password>
             </bgp-passwords>
          </vrf-peer>
       </vrf-peers>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor authentication-key WORD
```

Configure access list identifier

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
```

```
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
               <distribute-list-filters>
               <distribute-list-filter>
                  <filter-direction>in</filter-direction>
                  <config>
                     <filter-direction>in</filter-direction>
                  </config>
                     <access-list-identifier>WORD</access-list-identifier>
               </distribute-list-filter>
            </distribute-list-filters>
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor distribute-list WORD (in|out)
```

Configure as access list identifier

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
```

```
            <afi>ipv4</afi>
          <vrf-peers>
          <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
              <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <as-list-filters>
            <as-list-filter>
              <as-list-direction>in</as-list-direction>
              <config>
                <as-list-direction>in</as-list-direction>
              </config>
                <as-access-list-identifier>WORD</as-access-list-identifier>
            </as-list-filter>
          </as-list-filters>
        </vrf-peer>
      </vrf-peers>
    </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor filter-list WORD (in|out)
```

Configure prefix list name

This attribute specify a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match.The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
```

```
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <vrf-peers>
            <vrf-peer>
               <peer-address>CML_IP_ADDR_T</peer-address>
               <config>
                  <peer-address>CML_IP_ADDR_T</peer-address>
               </config>
               <prefix-list-filters>
               <prefix-list-filter>
                  <prefix-filter-direction>in</prefix-filter-direction>
                  <config>
                     <prefix-filter-direction>in</prefix-filter-direction>
                  </config>
                     <prefix-list-name>WORD</prefix-list-name>
               </prefix-list-filter>
            </prefix-list-filters>
         </vrf-peer>
      </vrf-peers>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor prefix-list WORD (in|out)
```

Configure route map name

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
```

```
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <vrf-peers>
           <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                 <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              <route-map-filters>
              <route-map-filter>
                 <route-map-direction>in</route-map-direction>
                 <config>
                    <route-map-direction>in</route-map-direction>
                 </config>
                    <route-map-name>WORD</route-map-name>
              </route-map-filter>
           </route-map-filters>
        </vrf-peer>
     </vrf-peers>
  </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor route-map WORD (in|out)
```

Configure peer local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
```

```
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <vrf-peers>
           <vrf-peer>
              <peer-address>CML_IP_ADDR_T</peer-address>
              <config>
                 <peer-address>CML_IP_ADDR_T</peer-address>
              </config>
              <local-as>
              <local-as-list> <!-- operation="delete"-->
                 <peer-local-as>1</peer-local-as>
                 <config>
                    <peer-local-as>1</peer-local-as>
                 </config>
              </local-as-list>
           </local-as>
        </vrf-peer>
     </vrf-peers>
  </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor local-as <1-4294967295>
```

Configure no prepend local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <vrf-peers>
         <vrf-peer>
            <peer-address>CML_IP_ADDR_T</peer-address>
            <config>
               <peer-address>CML_IP_ADDR_T</peer-address>
            </config>
            <local-as>
            <local-as-list>
               <peer-local-as>1</peer-local-as>
               <config>
                  <peer-local-as>1</peer-local-as>
                  </no-prepend-local-as>
                  </replace-local-as>
               </config>
            </local-as-list>
         </local-as>
      </vrf-peer>
   </vrf-peers>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure backdoor

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <network-lists>
         <network-list>
            <local-network-prefix>A.B.C.D</local-network-prefix>
            <config>
               <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
               <network-rmap-name>WORD</network-rmap-name>
            </config>
               </backdoor>
         </network-list>
      </network-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 network (A.B.C.D | A.B.C.D/M) (route-map WORD|) (backdoor|)
```

Configure local network prefix

network address with backdoor for address family

Attribute Name: backdoor

Attribute Type: uint8

Attribute Name: network-rmap-name

Attribute Type: string

Default Value: NULL

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <network-lists>
         <network-list>
            <local-network-prefix>A.B.C.D</local-network-prefix>
            <config>
               <local-network-prefix>BGP_IP_NETWORK_T</local-network-prefix>
               <network-rmap-name>WORD</network-rmap-name>
            </config>
               </backdoor>
         </network-list>
      </network-lists>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 network (X:X::X:X/M) (route-map WORD|) (backdoor|)
```

Configure validation enable

Enable BGP Origin Validation feature

This command is supported when following feature are enabled BGP RPKI

Attribute Name: validation-enable

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <as-origin>
         <config>
                </validation-enable><!-- operation="delete"-->
         </config>
      </as-origin>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 bgp origin-as validation-enable
```

Configure bestpath use validity

Enable to use BGP Origin Validation RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-use-validity

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
```

```
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <as-origin>
           <config>
                  </bestpath-use-validity><!-- operation="delete"-->
           </config>
        </as-origin>
     </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
 bgp origin-as bestpath use-validity
```

Configure bestpath allow invalid

Enable to handle a route with invalid RPKI state for the best path selection

This command is supported when following feature are enabled BGP RPKI

Attribute Name: bestpath-allow-invalid

Attribute Type: uint8

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
```

```
            <as-origin>
            <config>
                  </bestpath-allow-invalid><!-- operation="delete"-->
            </config>
         </as-origin>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
bgp origin-as bestpath allow-invalid
```

Configure peer group tag

Creates a peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group> <!-- operation="delete"-->
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
               <peer-group-range>0</peer-group-range>
```

```
            </config>
          </peer-group>
        </peer-groups>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD peer-group
```

Configure peer group range

this attribute creates a Dynamic peer group for address family. IPv4/IPv6 prefix range Must be specified to create dynamic peer group.

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                    <peer-group-tag>WORD</peer-group-tag>
                </config>
                    <peer-group-range>A.B.C.D/M</peer-group-range>
            </peer-group>
        </peer-groups>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
```

```
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD peer-group range A.B.C.D/M
```

Configure peer-group peer-group-range

this attribute creates a Dynamic peer group for address family. IPv4/IPv6 prefix range Must be specified to create dynamic peer group.

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <peer-group-range>(X:X::X:X/M)</peer-group-range>
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD peer-group range (X:X::X:X/M)
```

Configure peer-groups peer-group-tag

Creates a peer group. Neighbors with the same update policies are grouped into peer groups. This facilitates the updates of various policies, such as distribute and filter lists. The peer group is then configured easily with any of the neighbor attributes. Any changes made to the peer group affect all members.

Attribute Name: peer-group-tag

Attribute Type: string

Attribute Name: peer-group-range

Attribute Type: union

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group> <!-- operation="delete"-->
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
               <peer-group-range>0</peer-group-range>
            </config>
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD peer-group
```

Configure group limit

Use this attribute to specify max number of peers in a dynamic peer-group for address family

Attribute Name: group-limit

Attribute Type: uint16

Attribute Range: 1-512

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <group-limit>1</group-limit> <!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD limit <1-512>
```

Configure peer-group peer-as

This attribute specifies a neighbors autonomous system number. If the specified ASN matches the ASN number specified in the router bgp global configuration, the neighbor is identified as internal. If the ASN does not match, it is identified as external to the local AS.

Attribute Name: peer-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <peer-as>1</peer-as> <!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD remote-as <1-4294967295>
```

Configure peer-group source-identifier

This attribute allows internal BGP sessions to use any operational interface for TCP connections. Use this attribute in conjunction with any specified interface on the router. The loopback interface is the interface that is most commonly used with this attribute. The use of loopback interface eliminates a dependency and BGP does not have to rely on the availability of a particular interface for making TCP connections.

Attribute Name: source-identifier

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <source-identifier>WORD</source-identifier> <!--
operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD update-source WORD
```

Configure peer-group bgp-version

BGP Version. This attribute configures router to accept only a particular BGP version. By default, the system uses BGP version 4 and on request dynamically negotiates down to version 2. Using this attribute disables the routers version-negotiation capability and forces the router to use only a specified version with the neighbor.

Attribute Name: bgp-version

Attribute Type: uint8

Default Value: 4

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <bgp-version>(4)</bgp-version> <!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD version (4)
```

Configure peer-group peer-connection-interval

Connect timer value. This attribute sets the timers for a specific BGP neighbor. Keepalive messages are sent by a router to inform another router that the BGP connection between the two is still active. The keepalive interval is the period of time between each keepalive message sent by the router. The holdtime interval is the time the router waits to receive a keepalive message and if it does not receive a message for this period it declares the neighbor dead.

Attribute Name: peer-connection-interval

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <peer-connection-interval>1</peer-connection-interval> <!--
operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD timers connect <1-65535>
```

Configure peer-group enforce-multihop

This attribute turns on the enforcement of eBGP neighbors perform multihop.

Attribute Name: enforce-multihop

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
```

```
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  </enforce-multihop><!-- operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD enforce-multihop
```

Configure peer shutdown description

This attribute disables a neighbor administratively. Use this attribute to terminate any active session for a specified neighbor and clear all related routing information. In case a peer group is specified for shutdown, a large number of peering sessions could be terminated.

Attribute Name: peer-shutdown

Attribute Type: uint8

Attribute Name: peer-shutdown-description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
```

```
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <peer-groups>
             <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                   <peer-shutdown-description>1</peer-shutdown-description> <!--
operation="delete"-->
                </config>
                   </peer-shutdown><!-- operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD shutdown (description LINE|)
```

Configure peer-group neighbor-passive

Use this attribute to set a BGP neighbor as passive.

Attribute Name: neighbor-passive

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
```

```
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </neighbor-passive><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD passive
```

Configure peer-group enable-dynamic-capability

Use this attribute to enable the dynamic capability for a specific peer. This attribute allows a BGP speaker to advertise or withdraw an address family capability to a peer in a non-disruptive manner.

Attribute Name: enable-dynamic-capability

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
```

```
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  </enable-dynamic-capability><!-- operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD capability dynamic
```

Configure peer-group min-route-advertisement-interval

Minimum route advertisement interval. Sets minimum interval between the sending of BGP routing updates. To reduce the flapping of routes to internet, a minimum advertisement interval is set, so that the BGP routing updates are sent only per interval seconds. BGP dampening can also be used to control the effects of flapping routes.

Attribute Name: min-route-advertisement-interval

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
```

```
                    <peer-group-tag>WORD</peer-group-tag>
                </config>
                    <min-route-advertisement-interval>0</min-route-advertisement-
interval> <!-- operation="delete"-->
            </peer-group>
          </peer-groups>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
    neighbor WORD advertisement-interval <0-65535>
```

Configure peer-group peer-as-origin-interval

Time interval. This attribute adjust the interval of sending AS origination routing updates. This attribute is used to change the minimum interval between the sending of AS-origination routing updates.

Attribute Name: peer-as-origin-interval

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <peer-groups>
             <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                </config>
                   <peer-as-origin-interval>1</peer-as-origin-interval> <!--
operation="delete"-->
```

```
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD as-origination-interval <1-65535>
```

Configure peer-group neighbor-as-override

Use this attribute to configure a PE router to override the Autonomous System Number (ASN) of a site with the ASN of a provider. BGP normally ignores the routes from the same AS. However, this attribute is used to override the customers ASN in BGP, so that the customer CE accepts and installs routes from the same AS. Typically, this attribute is used when Customer Edge (CE) routers have the same ASN in some or all sites. As per BGP requirement, a BGP speaker rejects a route that has the same ASN as itself, in the AS_PATH attribute. Thus the CE routers having the same ASN do not accept routes from each other. Set neighborAsOverrideAf attribute on the PE router removes the CE neighbors ASN from the AS_PATH attribute allowing CE routers with the same ASN to accept routes from each other.

Attribute Name: neighbor-as-override

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  </neighbor-as-override><!-- operation="delete"-->
            </peer-group>
         </peer-groups>
```

```
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD as-override
```

Configure peer-group peer-description

Use this attribute to associate a description with a neighbor. This attribute helps in identifying a neighbor quickly. It is useful for an ISP that has multiple neighbor relationships.

Attribute Name: peer-description

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <peer-description>LINE</peer-description> <!-- operation="delete"--
>
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD description LINE
```

Configure peer-group peer-restart-time

This attribute sets a different restart-time other than the global restart-time. This attribute takes precedence over the restart-time value specified using the graceful-restart-set attribute. The restart-time value is the maximum time that a graceful-restart neighbor waits to come back up after a restart. The default value is 120 seconds.

Attribute Name: peer-restart-time

Attribute Type: uint32

Attribute Range: 1-3600

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <peer-restart-time>1</peer-restart-time> <!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD restart-time <1-3600>
```

Configure peer-group site-origin-identifier

Use this attribute to enable the site-of-origin (SOO) feature. If the customer AS is multi-homed to the ISP, this attribute ensures that the PE does not advertise the routes back to the same AS.

Attribute Name: site-origin-identifier

Attribute Type: string

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <peer-groups>
             <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                </config>
                   <site-origin-identifier>AS:nn_or_IP:nn</site-origin-identifier> <!-
- operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
     neighbor WORD soo AS:nn_or_IP:nn
```

Configure peer-group graceful-shut

Use this attribute to start a graceful shutdown for the BGP session of the specified BGP neighbor. The BGP session for this neighbor is shut down after the graceful shutdown timer expires. If there is no alternate path available for traffic to

flow prior the actual shutdown of the BGP session, this path is made available for 60 seconds or for configured time after which the path is no longer available and traffic is dropped.

Attribute Name: graceful-shut

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </graceful-shut><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD g-shut
```

Configure peer-group graceful-shut-timer

Use this attribute to configure the value of the graceful shutdown timer. After the timer expires, the BGP session initiated for graceful shutdown is shut down.

Attribute Name: graceful-shut-timer

Attribute Type: uint32

Attribute Range: 10-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <graceful-shut-timer>10</graceful-shut-timer> <!--
operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD g-shut-timer <10-65535>
```

Configure peer-group bgp-port

The BGP port number of a neighbor

Attribute Name: bgp-port

Attribute Type: uint16

Default Value: 179

Attribute Range: 0-65535

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <address-family-vrfs>
       <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
             <vrf-name>WORD</vrf-name>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          </config>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
                <bgp-port>0</bgp-port> <!-- operation="delete"-->
          </peer-group>
       </peer-groups>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD port <0-65535>
```

Configure peer-group enable-ext-opt-param-len

Use this attribute for a specific peer to encode extended optional parameter length.

Attribute Name: enable-ext-opt-param-len

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
```

```
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  </enable-ext-opt-param-len><!-- operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD extended-optional-param
```

Configure peer-group additional-paths-mode

Adds additional paths in the BGP table

Attribute Name: additional-paths-mode

Attribute Type: bits (send-receive|receive|send|disable)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
```

```
                <afi>ipv4</afi>
             <peer-groups>
             <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                </config>
                   <additional-paths-mode>send-receive</additional-paths-mode> <!--
operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD additional-paths (send-receive|receive|send|disable)
```

Configure peer-group additional-path-select-all

Attribute to select advertise additional path

Attribute Name: additional-path-select-all

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
```

```
                </config>
                   </additional-path-select-all><!-- operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD advertise additional-paths all
```

Configure peer-group additional-paths-best-select-count

Attribute to select best advertise additional path

Attribute Name: additional-paths-best-select-count

Attribute Type: uint8

Attribute Range: 2-3

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <additional-paths-best-select-count>2</additional-paths-best-
select-count> <!-- operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
```

```
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD advertise additional-paths best <2-3>
```

Configure peer-group tcp-adjust-mss

Use this attribute to set the BGP TCP MSS value of a neighbor.

Attribute Name: tcp-adjust-mss

Attribute Type: uint16

Attribute Range: 40-1440

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <tcp-adjust-mss>40</tcp-adjust-mss> <!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD tcp-mss <40-1440>
```

Configure peer-group enable-peer-bfd

Enable bidirectional forwarding detection (BFD) for the BGP peer

Attribute Name: enable-peer-bfd

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </enable-peer-bfd><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD fall-over bfd
```

Configure peer-group enable-peer-bfd-multihop

Enable bidirectional forwarding detection (BFD) for the BGP peer with multihop

Attribute Name: enable-peer-bfd-multihop

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </enable-peer-bfd-multihop><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD fall-over bfd multihop
```

Configure peer-group activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <address-family-vrfs>
       <address-family-vrf>
          <vrf-name>WORD</vrf-name>
          <config>
             <vrf-name>WORD</vrf-name>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          </config>
             <safi>unicast</safi>
             <afi>ipv4</afi>
          <peer-groups>
          <peer-group>
             <peer-group-tag>WORD</peer-group-tag>
             <config>
                <peer-group-tag>WORD</peer-group-tag>
             </config>
                </activate><!-- operation="delete"-->
          </peer-group>
       </peer-groups>
    </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure peer-group activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
```

```
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <peer-groups>
           <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                 <peer-group-tag>WORD</peer-group-tag>
              </config>
                 </activate><!-- operation="delete"-->
           </peer-group>
        </peer-groups>
     </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD activate
```

Configure peer-group activate

Activate/Deactivate neighbor. This attribute enables or disables the exchange of AF information with a neighboring router.

Attribute Name: activate

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
```

```
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  </activate><!-- operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD activate
```

Configure peer-group default-peer-route-map-name

This attribute allows a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family.

Attribute Name: default-peer-route-map-name

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
```

```
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                </config>
                   </default-peer-route-map-name><!-- operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
 neighbor WORD default-originate
```

Configure peer-group peer-route-map-orig-name

This attribute configures route map to be used for a BGP local router to send the default route 0.0.0.0 to a neighbor for use as a default route for specified address-family. This attribute can be used with standard or extended access lists.

Attribute Name: peer-route-map-orig-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
    <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
    <bgp-instances>
       <bgp-instance>
          <bgp-as>1</bgp-as>
          <config>
             <bgp-as>1</bgp-as>
          </config>
          <address-family-vrfs>
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <peer-groups>
             <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                </config>
                   <peer-route-map-orig-name>WORD</peer-route-map-orig-name> <!--
operation="delete"-->
```

```
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD default-originate route-map WORD
```

Configure peer-group weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <weight>0</weight> <!-- operation="delete"-->
```

```
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD weight <0-65535>
```

Configure peer-group weight

This attribute specifies a weight value, for specified address-family, to all routes learned from a neighbor for specified address-family. The route with the highest weight gets preference when the same prefix is learned from more than one peer. Unlike the local-preference attribute, the weight attribute is relevant only to the local router. When the weight is set for a peer group, all members of the peer group get the same weight. This attribute can also be used to assign a different weight to an individual peer-group member. When an individually-configured weight of a peer-group member is removed, its weight is reset to its peer groups weight.

Attribute Name: weight

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <weight>0</weight> <!-- operation="delete"-->
```

```
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD weight <0-65535>
```

Configure peer-group flowspec-validation-disable

This attribute specifies if FLOWSPEC validiation should be disabled for a specific peer

Attribute Name: flowspec-validation-disable

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  </flowspec-validation-disable><!-- operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD flowspec-validation-disable
```

Configure peer-group peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </peer-route-reflector><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-reflector-client
```

Configure peer-group peer-route-reflector

This attribute configures the router as a BGP route reflector and configure the specified neighbor as its client for specified address-family. Route reflectors are a solution for the explosion of iBGP peering within an autonomous system. By route reflection the number of iBGP peers within an AS is reduced. Use this attribute to configure the local router as the route reflector and specify neighbors as its client. An AS can have more than one route reflector. One route reflector treats the other route reflector as another iBGP speaker.

Attribute Name: peer-route-reflector

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </peer-route-reflector><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor WORD route-reflector-client
```

Configure peer-group peer-remove-private-as

This attribute removes the private Autonomous System (AS) number from outbound updates. Private AS numbers are not advertised to the Internet. This attribute is used with external BGP peers only. The router removes the AS numbers only if the update includes private AS numbers. If the update includes both private and public AS numbers, the system treats it as an error.

Attribute Name: peer-remove-private-as

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </peer-remove-private-as><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD remove-private-AS
```

Configure peer-group no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </no-send-community><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 no neighbor WORD send-community
```

Configure peer-group no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor WORD send-community (both|standard|extended|large)
```

Configure peer-group no-send-community

This attribute specifies if a community attribute should be sent to a BGP neighbor for specified address-family. The community attribute groups destinations in a certain community and applies routing decisions according to those communities. By default, both standard and extended community attributes are sent to a neighbor

Attribute Name: no-send-community

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
```

```
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </no-send-community><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 no neighbor WORD send-community
```

Configure peer-group no-send-community-type

This attribute specifies the type of community attribute to be sent to a BGP neighbor.

Attribute Name: no-send-community-type

Attribute Type: bits (both|standard|extended|large)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
```

```
          <address-family-vrf>
             <vrf-name>WORD</vrf-name>
             <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
             <peer-groups>
             <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                </config>
                   <no-send-community-type>both</no-send-community-type> <!--
operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    no neighbor WORD send-community (both|standard|extended|large)
```

Configure peer-group neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
```

```
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <neighbor-attribute-unchanged>14</neighbor-attribute-unchanged> <!-
- operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD attribute-unchanged
```

Configure peer-group neighbor-attribute-unchanged

This attribute advertises unchanged BGP AS path, next hop and med to the specified neighbor.

Attribute Name: neighbor-attribute-unchanged

Attribute Type: bits (as-path|next-hop|med)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
```

```
                <config>
                   <peer-group-tag>WORD</peer-group-tag>
                </config>
                   <neighbor-attribute-unchanged>as-path</neighbor-attribute-
unchanged> <!-- operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD attribute-unchanged {as-path|next-hop|med}
```

Configure peer-group orf-prefix-capability

This attribute enables Outbound Router Filtering (ORF), and advertise the ORF capability to its neighbors. The ORFs send and receive capabilities to lessen the number of updates exchanged between neighbors. By filtering updates, this option minimizes generating and processing of updates. The two routers exchange updates to maintain the ORF for each router.

Attribute Name: orf-prefix-capability

Attribute Type: bits (both|receive|send)

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
```

```
                    <orf-prefix-capability>both</orf-prefix-capability> <!--
operation="delete"-->
             </peer-group>
          </peer-groups>
       </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD capability orf prefix-list (both|receive|send)
```

Configure peer-group peer-allow-ebgp-vpn

This attribute allows an eBGP neighbor to be a VPN peer. By default, BGP VPN functionality is allowed only for iBGP peers. Using the peer-allow-ebgp-vpn attribute allows the VPN connection to be established to an eBGP peer.

Attribute Name: peer-allow-ebgp-vpn

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  </peer-allow-ebgp-vpn><!-- operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD allow-ebgp-vpn
```

Configure peer-group allow-as-number

This attribute advertises prefixes (routes) even when the source of the prefixes is from the same Autonomous System (AS) number for specified address-family. Use this attribute in a scenario where two routers at different locations use the same Autonomous System number and are connected via an ISP. Once prefixes arrive from one branch at the ISP, they are tagged with the customers AS number. By default, when the ISP passes the prefixes to the other router, the prefixes are dropped if the other router uses the same AS number. Use this attribute to advertise the prefixes at the other side. Control the number of times an AS number is advertised by specifying a number. In a hub and spoke configuration in a VPN, a PE (Provider Edge) router advertises all prefixes containing duplicate AS numbers. Use this attribute to configure two VRFs on each PE router to receive and advertise prefixes. One of the VRFs receives prefixes with AS numbers from all PE routers and then advertises them to neighboring PE routers. The other VRF receives prefixes with AS numbers from the CE (Customer Edge) router and advertises them to all PE routers in the hub and spoke configuration.

Attribute Name: allow-as-number

Attribute Type: uint32

Default Value: 3

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               <allow-as-number>1</allow-as-number> <!-- operation="delete"-->
```

```
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
 neighbor WORD allowas-in <1-10>
```

Configure peer-group capability-graceful-restart

This attribute configures the router to advertise the Graceful Restart Capability to the neighbors. This configuration indicates that the BGP speaker has the ability to preserve its forwarding state for the address family when BGP restarts. Use this attribute to advertise to the neighbor routers the capability of graceful restart.

Attribute Name: capability-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
               </capability-graceful-restart><!-- operation="delete"-->
         </peer-group>
      </peer-groups>
   </address-family-vrf>
</address-family-vrfs>
</bgp-instance>
```

```
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD capability graceful-restart
```

Configure peer-group unsuppress-route-map-name

unsuppress map name. This attribute is used to selectively leak more-specific routes to a particular neighbor.

Attribute Name: unsuppress-route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
                  <unsuppress-route-map-name>WORD</unsuppress-route-map-name> <!--
operation="delete"-->
            </peer-group>
         </peer-groups>
      </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
    neighbor WORD unsuppress-map WORD
```

Configure optional as

Use this attribute to specify optional AS for BGP dynamic peer-group

Attribute Name: optional-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <optional-as-lists>
            <optional-as-list> <!-- operation="delete"-->
               <optional-as>1</optional-as>
               <config>
                  <optional-as>1</optional-as>
               </config>
            </optional-as-list>
         </optional-as-lists>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD optional-as <1-4294967295>
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <bgp-passwords>
            <bgp-password>
               <password>WORD</password>
               <config>
                  <password>WORD</password>
               </config>
                  <auth-key-encrypt>1</auth-key-encrypt>
            </bgp-password>
         </bgp-passwords>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD authentication-key (0|1) WORD
```

Configure bgp-password auth-key-encrypt

Use this attribute to configure the authentication key to specify if the password is to be encrypted or not.

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <bgp-passwords>
            <bgp-password>
               <password>WORD</password>
               <config>
                  <password>WORD</password>
               </config>
                  <auth-key-encrypt>2</auth-key-encrypt>
            </bgp-password>
         </bgp-passwords>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD authentication-key WORD
```

Configure keep alive

Use this attribute to globally set or reset the holdtime values for all the neighbors.

Attribute Name: hold-time

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: keep-alive

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <timers>
            <config>
                  <keep-alive>0</keep-alive>
                  <hold-time>0</hold-time>
            </config>
         </timers>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD timers <0-65535> <0-65535>
```

Configure local-as peer-local-as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <local-as>
            <local-as-list> <!-- operation="delete"-->
               <peer-local-as>1</peer-local-as>
               <config>
                  <peer-local-as>1</peer-local-as>
               </config>
            </local-as-list>
         </local-as>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
```

```
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295>
```

Configure replace local as

Specifies an AS (autonomous system) number to use with BGP neighbor.

Attribute Name: peer-local-as

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: no-prepend-local-as

Attribute Type: empty

Attribute Name: replace-local-as

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <local-as>
            <local-as-list>
               <peer-local-as>1</peer-local-as>
               <config>
                  <peer-local-as>1</peer-local-as>
                  </no-prepend-local-as>
                  </replace-local-as>
```

```
                </config>
             </local-as-list>
          </local-as>
       </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD local-as <1-4294967295> (no-prepend|) (replace-as|)
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <ebgp-multihop>
            <config>
                  </enabled>
            </config>
```

```
            </ebgp-multihop>
         </peer-group>
      </peer-groups>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD ebgp-multihop
```

Configure ebgp-multihop enabled

Use this attribute to accept and attempt BGP connections to external peers on indirectly connected networks. Multihop is not established if the only route to the multihop peer is a default route. This avoids loop formation.

Attribute Name: enabled

Attribute Type: empty

Attribute Name: maximum-hop-count

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <ebgp-multihop>
            <config>
```

```
                        <maximum-hop-count>1</maximum-hop-count> <!--
operation="delete"-->
                        </enabled><!-- operation="delete"-->
                  </config>
               </ebgp-multihop>
            </peer-group>
         </peer-groups>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD ebgp-multihop <1-255>
```

Configure maximum-prefixes prefix-count

This attribute specifies number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: prefix-count

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <address-family-vrfs>
         <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
               <maximum-prefixes>
```

```
            <maximum-prefix> <!-- operation="delete"-->
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
            </maximum-prefix>
         </maximum-prefixes>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295>
```

Configure maximum-prefix stop-update

Stop installing the routes when limit is exceeded.

Attribute Name: stop-update

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <maximum-prefixes>
```

```
                <maximum-prefix>
                   <prefix-count>1</prefix-count>
                   <config>
                      <prefix-count>1</prefix-count>
                   </config>
                      </stop-update>
                </maximum-prefix>
             </maximum-prefixes>
          </peer-group>
       </peer-groups>
    </address-family-vrf>
    </address-family-vrfs>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> stop-update
```

Configure maximum-prefix maximum-prefix-warning

This attribute when enabled only give warning message when limit is exceeded. When it is not set and extra prefixes are received, the router ends the peering.

Attribute Name: maximum-prefix-warning

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
```

```
                </config>
                <maximum-prefixes>
                <maximum-prefix>
                    <prefix-count>1</prefix-count>
                    <config>
                        <prefix-count>1</prefix-count>
                    </config>
                        </maximum-prefix-warning>
                </maximum-prefix>
            </maximum-prefixes>
        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> warning-only
```

Configure maximum-prefix threshold-percentage

Threshold-value in percen. This attribute controls the number of prefixes that can be received from a neighbor. This attribute allows the configuration of a specified number of prefixes that a BGP router is allowed to receive from a neighbor. When the maximum-prefix-warning attribute is not set and extra prefixes are received, the router ends the peering.

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
            <bgp-as>1</bgp-as>
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <safi>unicast</safi>
```

```
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <maximum-prefixes>
            <maximum-prefix>
               <prefix-count>1</prefix-count>
               <config>
                  <prefix-count>1</prefix-count>
               </config>
                  <threshold-percentage>1</threshold-percentage>
            </maximum-prefix>
         </maximum-prefixes>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100>
```

Configure maximum-prefix warning-only

Throw warning if exceeds threshold-value

Attribute Name: warning-only

Attribute Type: uint8

Attribute Name: threshold-percentage

Attribute Type: uint8

Default Value: 75

Attribute Range: 1-100

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
```

```
            <config>
               <vrf-name>WORD</vrf-name>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            </config>
               <safi>unicast</safi>
               <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
               <peer-group-tag>WORD</peer-group-tag>
               <config>
                  <peer-group-tag>WORD</peer-group-tag>
               </config>
               <maximum-prefixes>
               <maximum-prefix>
                  <prefix-count>1</prefix-count>
                  <config>
                     <prefix-count>1</prefix-count>
                     <threshold-percentage>1</threshold-percentage>
                  </config>
                     </warning-only>
               </maximum-prefix>
            </maximum-prefixes>
         </peer-group>
      </peer-groups>
   </address-family-vrf>
   </address-family-vrfs>
   </bgp-instance>
   </bgp-instances>
   </bgp>
```

Command Syntax

```
neighbor WORD maximum-prefix <1-4294967295> <1-100> warning-only
```

Configure filter direction

Access List information

Attribute Name: access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
```

```
        <address-family-vrf>
           <vrf-name>WORD</vrf-name>
           <config>
              <vrf-name>WORD</vrf-name>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           </config>
              <safi>unicast</safi>
              <afi>ipv4</afi>
           <peer-groups>
           <peer-group>
              <peer-group-tag>WORD</peer-group-tag>
              <config>
                 <peer-group-tag>WORD</peer-group-tag>
              </config>
              <distribute-list-filters>
              <distribute-list-filter>
                 <filter-direction>in</filter-direction>
                 <config>
                    <filter-direction>in</filter-direction>
                 </config>
                    <access-list-identifier>WORD</access-list-identifier>
              </distribute-list-filter>
           </distribute-list-filters>
        </peer-group>
     </peer-groups>
  </address-family-vrf>
  </address-family-vrfs>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor WORD distribute-list WORD (in|out)
```

Configure as list direction

Access-list number. This attribute sets a BGP filter. This attribute specifies an access list filter on updates based on the BGP autonomous system paths. Each filter is an access list based on regular expressions

Attribute Name: as-access-list-identifier

Attribute Type: string

Netconf edit-config payload

```
  <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
  <bgp-instances>
     <bgp-instance>
        <bgp-as>1</bgp-as>
        <config>
           <bgp-as>1</bgp-as>
```

```
        </config>
        <address-family-vrfs>
        <address-family-vrf>
            <vrf-name>WORD</vrf-name>
            <config>
                <vrf-name>WORD</vrf-name>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            </config>
                <safi>unicast</safi>
                <afi>ipv4</afi>
            <peer-groups>
            <peer-group>
                <peer-group-tag>WORD</peer-group-tag>
                <config>
                    <peer-group-tag>WORD</peer-group-tag>
                </config>
                <as-list-filters>
                <as-list-filter>
                    <as-list-direction>in</as-list-direction>
                    <config>
                        <as-list-direction>in</as-list-direction>
                    </config>
                        <as-access-list-identifier>WORD</as-access-list-identifier>
                </as-list-filter>
            </as-list-filters>
        </peer-group>
    </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD filter-list WORD (in|out)
```

Configure prefix filter direction

This attribute specify a prefix list for filtering BGP advertisements for specified address-family. Filtering by prefix list matches the prefixes of routes with those listed in the prefix list. If there is a match, the route is used. An empty prefix list permits all prefixes. If a given prefix does not match any entries of a prefix list, the route is denied access. When multiple entries of a prefix list match a prefix, the entry with the smallest sequence number is considered to be a real match.The router begins the search at the top of the prefix list, with the sequence number 1. Once a match or deny occurs, the router does not need to go through the rest of the prefix list. For efficiency the most common matches or denies are listed at the top.

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <prefix-list-filters>
            <prefix-list-filter>
               <prefix-filter-direction>in</prefix-filter-direction>
               <config>
                  <prefix-filter-direction>in</prefix-filter-direction>
               </config>
                  <prefix-list-name>WORD</prefix-list-name>
            </prefix-list-filter>
         </prefix-list-filters>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD prefix-list WORD (in|out)
```

Configure route map direction

Use this attribute to apply a route map to incoming or outgoing routes. This attribute filters updates and modifies attributes. A route map is applied to inbound or outbound updates. Only the routes that pass the route map are sent or accepted in updates.

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <address-family-vrfs>
      <address-family-vrf>
         <vrf-name>WORD</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         </config>
            <safi>unicast</safi>
            <afi>ipv4</afi>
         <peer-groups>
         <peer-group>
            <peer-group-tag>WORD</peer-group-tag>
            <config>
               <peer-group-tag>WORD</peer-group-tag>
            </config>
            <route-map-filters>
            <route-map-filter>
               <route-map-direction>in</route-map-direction>
               <config>
                  <route-map-direction>in</route-map-direction>
               </config>
                  <route-map-name>WORD</route-map-name>
            </route-map-filter>
         </route-map-filters>
      </peer-group>
   </peer-groups>
</address-family-vrf>
</address-family-vrfs>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor WORD route-map WORD (in|out)
```

clear ip bgp all vrf (VRFNAME|all|default) (description LINE|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
       <ipi-bgp-address-family-vrf_clear-ip-bgp-all-vrf xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
       <vrf-name>VRFNAME</vrf-name>
       <peer-reset-description>1</peer-reset-description>
       </ipi-bgp-address-family-vrf_clear-ip-bgp-all-vrf>
```

Command Syntax

```
    clear ip bgp all vrf (VRFNAME|all|default) (description LINE|)
```

clear ip bgp vrf WORD (A.B.C.D|X:X::X:X|WORD|WORD) (description LINE|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: address

Attribute Type: union

Attribute Name: peer-reset-description

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
       <ipi-bgp-address-family-vrf_clear-ip-bgp-vrf-peer xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-bgp">
       <vrf-name>WORD</vrf-name>
       <address>BGP_HOSTNAME_T</address>
       <peer-reset-description>1</peer-reset-description>
       </ipi-bgp-address-family-vrf_clear-ip-bgp-vrf-peer>
```

Command Syntax

```
    clear ip bgp vrf WORD (A.B.C.D|X:X::X:X|WORD|WORD) (description LINE|)
```

IPI-BGP-VRF

Configure rd string

Use this attribute to assign a route distinguisher (RD) for the VRF. The route distinguisher value must be a unique value on the router.This attribute creates routing and forwarding tables and specifies the default RD for a VPN. The RD is added to the customers IPv4 prefixes, changing them into globally unique VPN-IPv4 prefixes.

Attribute Name: rd-string

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
         <config>
                <rd-string>ASN:nn_or_IP-address:nn</rd-string> <!--
operation="delete"-->
         </config>
      </bgp-vrf>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    rd ASN:nn_or_IP-address:nn
```

Configure import map

This attribute assigns a route map to the VRF. This map is applied for routing information imported from another PE or VRF. Use this attribute when an application requires finer control over the routes imported into a VRF than provided by the import and export extended communities. You can filter routes that are eligible for import into a VRF through the use of a route map.The route map can deny access to selected routes from a community that is on the import list.

Attribute Name: import-map

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
         <config>
                <import-map>WORD</import-map> <!-- operation="delete"-->
         </config>
      </bgp-vrf>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    import map WORD
```

Configure export map

export map name

Attribute Name: export-map

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
         <config>
                <export-map>WORD</export-map> <!-- operation="delete"-->
         </config>
      </bgp-vrf>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    export map WORD
```

Configure direction

Use this attribute to add a list of import and export route-target extended communities to the VRF. This attribute creates lists of import and export route-target extended communities for the VRF. It specifies a target VPN extended community. All routes with the specific route-target extended community are imported into all VRFs with the same extended community as an import route-target.

Attribute Name: direction

Attribute Type: bits (import|export|both)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <bgp-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
         <route-targets>
         <route-target>
            <rt-rd-string>BGP_ROUTE_TARGET_TYPE_T</rt-rd-string>
            <config>
               <rt-rd-string>BGP_ROUTE_TARGET_TYPE_T</rt-rd-string>
            </config>
               <direction>import</direction>
         </route-target>
      </route-targets>
   </bgp-vrf>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    route-target (import|export|both) (ASN:nn_or_IP-address:nn|evpn-auto-rt)
```

Configure service type

Vlan-Based EVPN-Service Type

This command is supported when following feature are enabled MPLS feature enabled,bgp evpn feature enabled

Attribute Name: service-type

Attribute Type: enum (vlan-based|vlan-aware-bundle)

Default Value: vlan-aware-bundle

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vrf</instance-type>
      <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
         <evpn-service-type xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp-vrf">
         <config>
                <service-type>vlan-aware-bundle</service-type> <!--
operation="delete"-->
         </config>
      </evpn-service-type>
   </vrf>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    evpn-vlan-service (vlan-based|vlan-aware-bundle)
```

IPI-BGP-EPE

Configure enable epe

Use this attribute to enable Egress Peer Engineering for bgp

Attribute Name: enable-epe

Attribute Type: uint8

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <bgp-instances>
      <bgp-instance>
         <bgp-as>1</bgp-as>
         <config>
            <bgp-as>1</bgp-as>
         </config>
         <peer-engineering>
         <config>
                </enable-epe><!-- operation="delete"-->
         </config>
      </peer-engineering>
   </bgp-instance>
   </bgp-instances>
```

```
</bgp>
```

Command Syntax

```
egress-engineering
```

Configure enable peer node

Use this attribute to enable peer node SID for bgp neighbor

Attribute Name: enable-peer-node

Attribute Type: uint8

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <egress-engineering>
            <config>
                  </enable-peer-node><!-- operation="delete"-->
            </config>
         </egress-engineering>
      </peer>
   </peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-node
```

Configure set name

Use this attribute for the set-name

Attribute Name: set-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
```

```
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <egress-engineering>
             <peer-set>
             <config>
                    <set-name>NAME</set-name>
             </config>
          </peer-set>
       </egress-engineering>
    </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
 neighbor (A.B.C.D|X:X::X:X) peer-set NAME
```

Configure address

Use this attribute for the backup peer-address

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
    <bgp-instance>
       <bgp-as>1</bgp-as>
       <config>
          <bgp-as>1</bgp-as>
       </config>
       <peers>
          <peer>
             <peer-address>A.B.C.D|X:X::X:X</peer-address>
             <config>
                <peer-address>BGP_IP_ADDR_T</peer-address>
             </config>
             <egress-engineering>
             <backup>
```

```
                <peer-node>
                <config>
                       <address>A.B.C.D</address>
                </config>
             </peer-node>
          </backup>
       </egress-engineering>
    </peer>
    </peers>
    </bgp-instance>
    </bgp-instances>
    </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-node backup backup-type peer-node backup-peer
  A.B.C.D
```

Configure peer address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: peer-address

Attribute Type: union

Attribute Name: adjacent-address

Attribute Type: string

Attribute Name: nexthop-address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <peers>
   <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <egress-engineering>
      <backup>
      <adjacency>
      <config>
         <adjacent-address>A.B.C.D</adjacent-address>
            <nexthop-address>NEXTHOP</nexthop-address>
         </config>
```

```
        </adjacency>
     </backup>
  </egress-engineering>
  </peer>
  </peers>
  </bgp-instance>
  </bgp-instances>
  </bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-node backup backup-type peer-adj backup-peer
  A.B.C.D hop-address NHOP
```

Configure hop address

Use this attribute for the hop-address

Attribute Name: hop-address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
   <bgp-instance>
      <bgp-as>1</bgp-as>
      <config>
         <bgp-as>1</bgp-as>
      </config>
      <peers>
         <peer>
            <peer-address>A.B.C.D|X:X::X:X</peer-address>
            <config>
               <peer-address>BGP_IP_ADDR_T</peer-address>
            </config>
            <egress-engineering>
            <peer-adjacencies>
            <peer-adjacency> <!-- operation="delete"-->
               <hop-address>A.B.C.D</hop-address>
               <config>
                  <hop-address>A.B.C.D</hop-address>
               </config>
            </peer-adjacency>
         </peer-adjacencies>
      </egress-engineering>
   </peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-adj hop-address A.B.C.D
```

Configure hop address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: peer-address

Attribute Type: union

Attribute Name: hop-address

Attribute Type: string

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <peers>
   <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <egress-engineering>
      <peer-adjacencies>
      <peer-adjacency>
         <hop-address>A.B.C.D</hop-address>
         <backup>
         <peer-node>
         <config>
            <address>A.B.C.D</address>
         </config>
      </peer-node>
   </backup>
</peer-adjacency>
</peer-adjacencies>
</egress-engineering>
</peer>
</peers>
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-adj hop-address A.B.C.D backup backup-type peer-
  node backup-peer A.B.C.D
```

Configure adjacent address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: peer-address

Attribute Type: union

Attribute Name: hop-address

Attribute Type: string

Attribute Name: adjacent-address

Attribute Type: string

Attribute Name: nexthop-address

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <peers>
   <peer>
      <peer-address>A.B.C.D|X:X::X:X</peer-address>
      <egress-engineering>
      <peer-adjacencies>
      <peer-adjacency>
         <hop-address>A.B.C.D</hop-address>
         <backup>
         <adjacency>
         <config>
            <adjacent-address>A.B.C.D</adjacent-address>
               <nexthop-address>NEXTHOP</nexthop-address>
            </config>
         </adjacency>
      </backup>
   </peer-adjacency>
</peer-adjacencies>
</egress-engineering>
</peer>
</peers>
```

```
</bgp-instance>
</bgp-instances>
</bgp>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X) peer-adj hop-address A.B.C.D backup backup-type peer-
  adj backup-peer A.B.C.D hop-address NHOP
```

IPI-BGP-FLOWSPEC

Configure enable flowspec controller

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: empty

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller> <!-- operation="delete"-->
   </enable-flowspec-controller>
   <config>
      </enable-flowspec-controller>
   </config>
</controller>
</controllers>
</flowspec>
</bgp>
```

Command Syntax

```
flowspec
```

Configure local install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller>
   </enable-flowspec-controller>
```

```
    <config>
       </enable-flowspec-controller><!-- operation="delete"-->
    </config>
       <local-install>interface-all</local-install> <!-- operation="delete"-->
</controller>
</controllers>
</flowspec>
</bgp>
```

Command Syntax

```
local-install (interface-all)
```

Configure afi type

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller> <!-- operation="delete"-->
   </enable-flowspec-controller>
   <config>
      </enable-flowspec-controller>
   </config>
   <address-families>
   <address-family>
      <afi-type>ipv4</afi-type>
   </address-family>
</address-families>
</controller>
</controllers>
</flowspec>
</bgp>
```

Command Syntax

```
address-family (ipv4)
```

Configure address-family local-install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller>
   </enable-flowspec-controller>
   <config>
      </enable-flowspec-controller><!-- operation="delete"-->
   </config>
   <address-families>
   <address-family>
      <afi-type>ipv4</afi-type>
      <config>
         <afi-type>ipv4</afi-type>
      </config>
         <local-install>interface-all</local-install> <!-- operation="delete"-->
   </address-family>
</address-families>
</controller>
</controllers>
</flowspec>
</bgp>
```

Command Syntax

```
 local-install (interface-all)
```

Configure service policy type

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Attribute Name: service-policy-type

Attribute Type: enum (pbr)

Attribute Name: attached-policy-map-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller> <!-- operation="delete"-->
   </enable-flowspec-controller>
   <config>
```

```
        </enable-flowspec-controller>
      </config>
      <address-families>
      <address-family>
         <afi-type>ipv4</afi-type>
         <service-policies>
         <service-policy>
            <service-policy-type>pbr</service-policy-type>
               <attached-policy-map-name>WORD</attached-policy-map-name>
            </service-policy>
         </service-policies>
      </address-family>
   </address-families>
   </controller>
   </controllers>
   </flowspec>
   </bgp>
```

Command Syntax

```
service-policy type (pbr) NAME
```

Configure vrf name

Use this attribute to show the VRF name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller>
   </enable-flowspec-controller>
   <config>
      </enable-flowspec-controller>
   </config>
   <vrfs>
   <vrf> <!-- operation="delete"-->
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
   </vrf>
</vrfs>
</controller>
</controllers>
</flowspec>
</bgp>
```

Command Syntax

```
vrf WORD
```

Configure vrf local-install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller>
   </enable-flowspec-controller>
   <config>
      </enable-flowspec-controller><!-- operation="delete"-->
   </config>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
         <local-install>interface-all</local-install> <!-- operation="delete"-->
   </vrf>
</vrfs>
</controller>
</controllers>
</flowspec>
</bgp>
```

Command Syntax

```
local-install (interface-all)
```

Configure controllers enable-flowspec-controller

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller> <!-- operation="delete"-->
   </enable-flowspec-controller>
   <config>
      </enable-flowspec-controller>
   </config>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <address-families>
      <address-family>
         <afi-type>ipv4</afi-type>
      </address-family>
   </address-families>
</vrf>
</vrfs>
</controller>
</controllers>
</flowspec>
</bgp>
```

Command Syntax

```
address-family (ipv4)
```

Configure address-family local-install

Use this attribute to specify local-install for policy-map PBR

Attribute Name: local-install

Attribute Type: enum (interface-all)

Default Value: interface-all

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<flowspec>
<controllers>
<controller>
   </enable-flowspec-controller>
   <config>
      </enable-flowspec-controller><!-- operation="delete"-->
   </config>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
```

```
          </config>
          <address-families>
          <address-family>
             <afi-type>ipv4</afi-type>
             <config>
                <afi-type>ipv4</afi-type>
             </config>
                <local-install>interface-all</local-install> <!-- operation="delete"--
>
          </address-family>
       </address-families>
   </vrf>
   </vrfs>
   </controller>
   </controllers>
   </flowspec>
   </bgp>
```

Command Syntax

```
local-install (interface-all)
```

Configure attached policy map name

Use this attribute to controllersly enable or disable FLOWSPEC controller

Attribute Name: enable-flowspec-controller

Attribute Type: uint8

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: afi-type

Attribute Type: enum (ipv4)

Attribute Name: service-policy-type

Attribute Type: enum (pbr)

Attribute Name: attached-policy-map-name

Attribute Type: string

Netconf edit-config payload

```
   <bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
   <flowspec>
   <controllers>
   <controller> <!-- operation="delete"-->
      </enable-flowspec-controller>
      <config>
         </enable-flowspec-controller>
      </config>
      <vrfs>
      <vrf>
```

```
        <vrf-name>WORD</vrf-name>
        <address-families>
        <address-family>
           <afi-type>ipv4</afi-type>
           <service-policies>
           <service-policy>
              <service-policy-type>pbr</service-policy-type>
                 <attached-policy-map-name>WORD</attached-policy-map-name>
              </service-policy>
           </service-policies>
        </address-family>
     </address-families>
  </vrf>
  </vrfs>
  </controller>
  </controllers>
  </flowspec>
  </bgp>
```

Command Syntax

```
service-policy type (pbr) NAME
```

IPI-BGP-RPKI

Configure server address

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: server-address

Attribute Type: union

Attribute Name: server-protocol-type

Attribute Type: enum (tcp|ssh)

Default Value: tcp

Attribute Name: port

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Attribute Name: user

Attribute Type: string

Default Value: 0

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Default Value: 1

Attribute Name: password

Attribute Type: string

Default Value: 0

Attribute Name: refresh-interval

Attribute Type: uint32

Default Value: 3600

Attribute Range: 1-86400

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 600

Attribute Range: 1-7200

Attribute Name: expire-interval

Attribute Type: uint32

Default Value: 7200

Attribute Range: 600-17200

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <rpki>
   <servers>
   <server>
      <server-address>BGP_RPKI_SERVER_IP_ADDR_T</server-address>
      <config>
         <server-protocol-type>tcp</server-protocol-type>
            <port>0</port>
               <user>WORD</user>
                  <auth-key-encrypt>1</auth-key-encrypt>
                     <password>WORD</password>
                        <refresh-interval>1</refresh-interval>
                           <retry-interval>1</retry-interval>
                              <expire-interval>600</expire-interval>
                           </config>
                        </server>
                     </servers>
                  </rpki>
               </bgp-instance>
```

```
            </bgp-instances>
          </bgp>
```

Command Syntax

```
bgp rpki server (A.B.C.D|X:X::X:X) ((tcp)|) (port <0-65535>|) (refresh <1-86400>|)
  (retry <1-7200>|) (expire <600-17200>|)
```

Configure server protocol type

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: server-address

Attribute Type: inet:ipv4-address

Attribute Name: server-protocol-type

Attribute Type: enum (tcp|ssh)

Default Value: tcp

Attribute Name: port

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Attribute Name: user

Attribute Type: string

Default Value: 0

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Default Value: 1

Attribute Name: password

Attribute Type: string

Default Value: 0

Attribute Name: refresh-interval

Attribute Type: uint32

Default Value: 3600

Attribute Range: 1-86400

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 600

Attribute Range: 1-7200

Attribute Name: expire-interval

Attribute Type: uint32

Default Value: 7200

Attribute Range: 600-17200

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <rpki>
   <servers>
   <server>
      <server-address>BGP_RPKI_SERVER_IP_ADDR_T</server-address>
      <config>
         <server-protocol-type>tcp</server-protocol-type>
            <port>0</port>
               <user>WORD</user>
                  <auth-key-encrypt>1</auth-key-encrypt>
                     <password>WORD</password>
                        <refresh-interval>1</refresh-interval>
                           <retry-interval>1</retry-interval>
                              <expire-interval>600</expire-interval>
                           </config>
                        </server>
                     </servers>
                  </rpki>
               </bgp-instance>
            </bgp-instances>
         </bgp>
```

Command Syntax

```
bgp rpki server (ssh) (port <0-65535>|) user WORD encrypt (0|1) password WORD
  (refresh <1-86400>|) (retry <1-7200>|) (expire <600-17200>|)
```

Configure port

Use this attribute to start a BGP process.

Attribute Name: bgp-as

Attribute Type: uint32

Attribute Name: server-address

Attribute Type: inet:ipv4-address

Attribute Name: server-protocol-type

Attribute Type: enum (tcp|ssh)

Default Value: tcp

Attribute Name: port

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-65535

Attribute Name: user

Attribute Type: string

Default Value: 0

Attribute Name: auth-key-encrypt

Attribute Type: enum (0|1)

Default Value: 1

Attribute Name: password

Attribute Type: string

Default Value: 0

Attribute Name: refresh-interval

Attribute Type: uint32

Default Value: 3600

Attribute Range: 1-86400

Attribute Name: retry-interval

Attribute Type: uint32

Default Value: 600

Attribute Range: 1-7200

Attribute Name: expire-interval

Attribute Type: uint32

Default Value: 7200

Attribute Range: 600-17200

Netconf edit-config payload

```
<bgp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bgp">
<bgp-instances>
<bgp-instance> <!-- operation="delete"-->
   <bgp-as>1</bgp-as>
   <config>
      <bgp-as>1</bgp-as>
   </config>
   <rpki>
   <servers>
   <server>
      <server-address>BGP_RPKI_SERVER_IP_ADDR_T</server-address>
      <config>
         <server-protocol-type>tcp</server-protocol-type>
```

```
            <port>0</port>
               <user>WORD</user>
                  <auth-key-encrypt>1</auth-key-encrypt>
                     <password>WORD</password>
                        <refresh-interval>1</refresh-interval>
                           <retry-interval>1</retry-interval>
                              <expire-interval>600</expire-interval>
                           </config>
                        </server>
                     </servers>
                  </rpki>
               </bgp-instance>
            </bgp-instances>
         </bgp>
```

Command Syntax

```
bgp rpki server (ssh) (port <0-65535>|) user WORD password WORD (refresh <1-
  86400>|) (retry <1-7200>|) (expire <600-17200>|)
```

IPI-ENHANCED-PBR

Configure class type

Use this attribute to set the class-map type.

Attribute Name: class-type

Attribute Type: enum (traffic)

Attribute Name: match-criteria

Attribute Type: enum (match-all)

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map> <!-- operation="delete"-->
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
      <match-criteria>match-all</match-criteria>
   </config>
   <name>WORD</name>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
class-map type (traffic) (match-all) NAME
```

Configure protocol

Use this attribute to specify IP protocol

Attribute Name: protocol

Attribute Type: string

Attribute Range: 0-255

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<config>
      <protocol>WORD</protocol> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match protocol WORD
```

Configure port

Use this attribute to specify TCP/UDP port number

Attribute Name: port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
```

```
<config>
       <port>WORD</port> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match port WORD
```

Configure destination port

Use this attribute to specify TCP/UDP destination port number

Attribute Name: destination-port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<config>
       <destination-port>WORD</destination-port> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match destination-port WORD
```

Configure source port

Use this attribute to specify TCP/UDP source port number

Attribute Name: source-port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<config>
      <source-port>WORD</source-port> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match source-port WORD
```

Configure packet length

Use this attribute to specify packet-length value

Attribute Name: packet-length

Attribute Type: string

Attribute Range: 21-12288

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<config>
      <packet-length>WORD</packet-length> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match packet-length WORD
```

Configure fragment type

Use this attribute to specify fragment type value

Attribute Name: fragment-type

Attribute Type: enum (df|isf|ff|lf|lf-ff-isf)

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<config>
      <fragment-type>df</fragment-type> <!-- operation="delete"-->
</config>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match fragment-type (df|isf|ff|lf|lf-ff-isf)
```

Configure destination prefix

Use this attribute to specify IPv4 prefix

Attribute Name: destination-prefix

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
```

```
<ipv4>
<config>
       <destination-prefix>A.B.C.D/M</destination-prefix> <!-- operation="delete"-->
</config>
</ipv4>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match destination-address ipv4 A.B.C.D/M
```

Configure source prefix

Use this attribute to specify IPv4 prefix

Attribute Name: source-prefix

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<ipv4>
<config>
       <source-prefix>A.B.C.D/M</source-prefix> <!-- operation="delete"-->
</config>
</ipv4>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match source-address ipv4 A.B.C.D/M
```

Configure icmp type

Use this attribute to specify ICMP type

Attribute Name: icmp-type

Attribute Type: string

Attribute Range: 0-255

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<ipv4>
<icmp>
<config>
       <icmp-type>WORD</icmp-type> <!-- operation="delete"-->
</config>
</icmp>
</ipv4>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
 match ipv4 icmp-type WORD
```

Configure icmp code

Use this attribute to specify ICMP code

Attribute Name: icmp-code

Attribute Type: string

Attribute Range: 0-255

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<ipv4>
<icmp>
<config>
```

```
        <icmp-code>WORD</icmp-code> <!-- operation="delete"-->
    </config>
    </icmp>
    </ipv4>
    </match-filters>
    </class-map>
    </class-maps>
    </enhanced-pbr>
```

Command Syntax

```
match ipv4 icmp-code WORD
```

Configure bit mask

Use this attribute to specify bit-mask for TCP flag

Attribute Name: bit-mask

Attribute Type: string

Attribute Name: value

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<tcp-flag>
<config>
       <value>WORD</value> <!-- operation="delete"-->
       <bit-mask>WORD</bit-mask> <!-- operation="delete"-->
</config>
</tcp-flag>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match tcp-flag WORD bit-mask WORD
```

Configure match dscp value

Use this attribute to specify dscp value

Attribute Name: match-dscp-value

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<class-maps>
<class-map>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <name>NAME</name>
   </config>
   <name>WORD</name>
<match-filters>
<dscp>
<config>
      <match-dscp-value>WORD</match-dscp-value> <!-- operation="delete"-->
</config>
</dscp>
</match-filters>
</class-map>
</class-maps>
</enhanced-pbr>
```

Command Syntax

```
match dscp WORD
```

Configure type

Use this attribute to set the policy-map type.

Attribute Name: type

Attribute Type: enum (pbr)

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<policy-maps>
<policy-map> <!-- operation="delete"-->
   <type>pbr</type>
   <config>
      <type>pbr</type>
      <policy-map-name>WORD</policy-map-name>
   </config>
   <policy-map-name>WORD</policy-map-name>
</policy-map>
</policy-maps>
</enhanced-pbr>
```

Command Syntax

```
policy-map type (pbr) NAME
```

Configure reference description

This attribute configures reference description message on policy-map profile

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<policy-maps>
<policy-map>
   <type>pbr</type>
   <config>
      <type>pbr</type>
      <policy-map-name>WORD</policy-map-name>
   </config>
   <policy-map-name>WORD</policy-map-name>
   <reference-description>LINE</reference-description> <!-- operation="delete"-->
</policy-map>
</policy-maps>
</enhanced-pbr>
```

Command Syntax

```
 reference-description LINE
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Name: class-type

Attribute Type: enum (traffic)

Attribute Name: class-map-name

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<policy-maps>
<policy-map> <!-- operation="delete"-->
   <type>pbr</type>
   <config>
      <type>pbr</type>
      <policy-map-name>WORD</policy-map-name>
   </config>
   <policy-map-name>WORD</policy-map-name>
<classes>
```

```
<class>
   <class-type>traffic</class-type>
      <class-map-name>WORD</class-map-name>
   </class>
</classes>
</policy-map>
</policy-maps>
</enhanced-pbr>
```

Command Syntax

```
class type (traffic) NAME
```

Configure drop traffic

Use this attribute to specify drop action

Attribute Name: drop-traffic

Attribute Type: empty

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<policy-maps>
<policy-map>
   <type>pbr</type>
   <config>
      <type>pbr</type>
      <policy-map-name>WORD</policy-map-name>
   </config>
   <policy-map-name>WORD</policy-map-name>
<classes>
<class>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <class-map-name>NAME</class-map-name>
   </config>
      <class-map-name>WORD</class-map-name>
   <policy-actions>
   <config>
          </drop-traffic><!-- operation="delete"-->
   </config>
</policy-actions>
</class>
</classes>
</policy-map>
</policy-maps>
</enhanced-pbr>
```

Command Syntax

```
drop
```

Configure dscp set value

Use this attribute to specify DSCP value

Attribute Name: dscp-set-value

Attribute Type: enum (00|01|02|03|04|05|06|07|08|09|0a|0b|0c|0d|0e|0f|10|11|12|13|14|15|16|17|18|19|1a|1b|1c|1d|1e|1f|20|21|22|23|24|25|26|27|28|29|2a|2b|2c|2d|2e|2f|30|31|32|33|34|35|36|37|38|39|3a|3b|3c|3d|3e|3f)

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<policy-maps>
<policy-map>
   <type>pbr</type>
   <config>
      <type>pbr</type>
      <policy-map-name>WORD</policy-map-name>
   </config>
   <policy-map-name>WORD</policy-map-name>
<classes>
<class>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <class-map-name>NAME</class-map-name>
   </config>
      <class-map-name>WORD</class-map-name>
   <policy-actions>
   <config>
         <dscp-set-value>00</dscp-set-value> <!-- operation="delete"-->
   </config>
</policy-actions>
</class>
</classes>
</policy-map>
</policy-maps>
</enhanced-pbr>
```

Command Syntax

```
set dscp
  (00|01|02|03|04|05|06|07|08|09|0a|0b|0c|0d|0e|0f|10|11|12|13|14|15|16|17|18|19|1
  a|1b|1c|1d|1e|1f|20|21|22|23|24|25|26|27|28|29|2a|2b|2c|2d|2e|2f|30|31|32|33|34|
  35|36|37|38|39|3a|3b|3c|3d|3e|3f)
```

Configure rate unit

Use this attribute to set a rate unit.

Attribute Name: rate-unit

Attribute Type: enum (bps|pps)

Default Value: bps

Attribute Name: rate

Attribute Type: uint64

Attribute Range: 1-1000000000

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
<policy-maps>
<policy-map>
   <type>pbr</type>
   <config>
      <type>pbr</type>
      <policy-map-name>WORD</policy-map-name>
   </config>
   <policy-map-name>WORD</policy-map-name>
<classes>
<class>
   <class-type>traffic</class-type>
   <config>
      <class-type>traffic</class-type>
      <class-map-name>NAME</class-map-name>
   </config>
      <class-map-name>WORD</class-map-name>
   <policy-actions>
   <police>
   <config>
         <rate>1</rate> <!-- operation="delete"-->
         <rate-unit>bps</rate-unit> <!-- operation="delete"-->
   </config>
</police>
</policy-actions>
</class>
</classes>
</policy-map>
</policy-maps>
</enhanced-pbr>
```

Command Syntax

```
 police rate <1-1000000000> (bps|pps)
```

Configure route target

Use this attribute to specify route target for rt redirect action

Attribute Name: route-target

Attribute Type: string

Netconf edit-config payload

```
<enhanced-pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-enhanced-pbr">
```

```
   <policy-maps>
   <policy-map>
      <type>pbr</type>
      <config>
         <type>pbr</type>
         <policy-map-name>WORD</policy-map-name>
      </config>
      <policy-map-name>WORD</policy-map-name>
   <classes>
   <class>
      <class-type>traffic</class-type>
      <config>
         <class-type>traffic</class-type>
         <class-map-name>NAME</class-map-name>
      </config>
         <class-map-name>WORD</class-map-name>
      <policy-actions>
      <redirect>
      <ipv4>
      <extcommunity>
      <config>
            <route-target>ASN:nn_or_IP-address:nn</route-target> <!--
operation="delete"-->
      </config>
   </extcommunity>
   </ipv4>
   </redirect>
   </policy-actions>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </enhanced-pbr>
```

Command Syntax

```
 redirect ipv4 extcommunity rt ASN:nn_or_IP-address:nn
```

IPI-BFD

Configure disable default vccv capability

Use this attribute to disable default vccv capability.

Attribute Name: disable-default-vccv-capability

Attribute Type: empty

Netconf edit-config payload

```
   <oam-mpls-vccv xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
```

```
<config>
   </disable-default-vccv-capability><!-- operation="delete"-->
</config>
</oam-mpls-vccv>
```

Command Syntax

```
disable-default-vccv-capability
```

Configure l2vpn ping use fec128 tlv

Use this attribute to send fec128 tlv for l2vpn bgp vpls

Attribute Name: l2vpn-ping-use-fec128-tlv

Attribute Type: empty

Netconf edit-config payload

```
<oam-mpls-vccv xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<config>
   </l2vpn-ping-use-fec128-tlv><!-- operation="delete"-->
</config>
</oam-mpls-vccv>
```

Command Syntax

```
l2vpn-ping-use-fec128-tlv
```

Configure notification enabled

Use this attribute to enable or disable BFD SNMP notification.

Attribute Name: notification-enabled

Attribute Type: boolean

Default Value: false

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<global>
<config>
   <notification-enabled>true</notification-enabled> <!-- operation="delete"-->
</config>
</global>
</bfd>
```

Command Syntax

```
bfd notification (disable|enable)
```

Configure echo mode enabled

This leaf exists when echo mode is running between the local and remote system. When it does not exist, solely asynchronous mode is active.

Attribute Name: echo-mode-enabled

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<global>
<config>
   </echo-mode-enabled><!-- operation="delete"-->
</config>
</global>
</bfd>
```

Command Syntax

```
bfd echo
```

Configure slow tx interval

Use this command to set a BFD slow timer interval.

Attribute Name: slow-tx-interval

Attribute Type: uint32

Default Value: 1703

Attribute Range: 1000-1703

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<global>
<config>
   <slow-tx-interval>1000</slow-tx-interval> <!-- operation="delete"-->
</config>
</global>
</bfd>
```

Command Syntax

```
bfd slow-timer <1000-1703>
```

Configure detection multiplier

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
```

```
<global>
<multihop-peer-intervals>
<multihop-peer-interval> <!-- operation="delete"-->
   <detection-multiplier>3</detection-multiplier>
   <config>
      <detection-multiplier>3</detection-multiplier>
      <required-minimum-rx-interval>3</required-minimum-rx-interval>
      <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
   </config>
   <required-minimum-rx-interval>50</required-minimum-rx-interval>
   <desired-minimum-tx-interval>50</desired-minimum-tx-interval>
</multihop-peer-interval>
</multihop-peer-intervals>
</global>
</bfd>
```

Command Syntax

```
bfd multihop-peer-interval <50-999> minrx <50-999> multiplier <3-50>
```

Configure desired minimum tx interval

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<global>
<intervals>
<interval> <!-- operation="delete"-->
   <detection-multiplier>3</detection-multiplier>
   <config>
      <detection-multiplier>3</detection-multiplier>
      <required-minimum-rx-interval>3</required-minimum-rx-interval>
      <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
   </config>
   <required-minimum-rx-interval>3</required-minimum-rx-interval>
   <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
</interval>
</intervals>
</global>
</bfd>
```

Command Syntax

```
bfd interval <3-999> minrx <3-999> multiplier <3-50>
```

Configure remote address

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<peers>
<peer>
   <remote-address>A.B.C.D</remote-address>
   <config>
      <remote-address>A.B.C.D</remote-address>
   </config>
<intervals>
<interval> <!-- operation="delete"-->
   <detection-multiplier>3</detection-multiplier>
   <config>
      <detection-multiplier>3</detection-multiplier>
      <required-minimum-rx-interval>3</required-minimum-rx-interval>
      <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
   </config>
      <required-minimum-rx-interval>50</required-minimum-rx-interval>
      <desired-minimum-tx-interval>50</desired-minimum-tx-interval>
</interval>
</intervals>
</peer>
</peers>
</bfd>
```

Command Syntax

```
bfd multihop-peer (A.B.C.D|X:X::X:X) interval <50-999> minrx <50-999> multiplier
  <3-50>
```

Configure key string

Use this attribute to specify the key authentication string

Attribute Name: key-string

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (simple|keyed-sha1|meticulous-keyed-sha1)

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: key-encrypted

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<peers>
<peer>
   <remote-address>A.B.C.D</remote-address>
   <config>
      <remote-address>A.B.C.D</remote-address>
   </config>
<authentication>
<config>
       <key-type>simple</key-type> <!-- operation="delete"-->
       <key-id>0</key-id> <!-- operation="delete"-->
       <key-encrypted>0</key-encrypted> <!-- operation="delete"-->
       <key-string>WORD</key-string> <!-- operation="delete"-->
</config>
</authentication>
</peer>
</peers>
</bfd>
```

Command Syntax

```
bfd multihop-peer (A.B.C.D|X:X::X:X) auth type (simple|keyed-sha1|meticulous-keyed-
  sha1) key-id <0-255> (0|1) key WORD
```

Configure options

Use this attribute to debug the oamd process.

Attribute Name: options

Attribute Type: bits (events|packets|ipc-error|ipc-event|session|nsm|all)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<debug>
<config>
   <options>events</options> <!-- operation="delete"-->
</config>
</debug>
</bfd>
```

Command Syntax

```
debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)
```

Configure enable oam srv6

Use this attribute to debug OAM SRV6

Attribute Name: enable-oam-srv6

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<debug>
<config>
   </enable-oam-srv6><!-- operation="delete"-->
</config>
</debug>
</bfd>
```

Command Syntax

```
debug oam srv6
```

Configure enable mpls ping request

Use this attribute to enable or disable MPLS ping request DSMAP TLV

This command is supported when following feature are enabled MPLS-OAM feature enabled

Attribute Name: enable-mpls-ping-request

Attribute Type: empty

Netconf edit-config payload

```
<oam-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<config>
   </enable-mpls-ping-request><!-- operation="delete"-->
</config>
</oam-mpls>
```

Command Syntax

```
mpls-ping-request-dsmap-tlv
```

Configure mpls ping reply

Use this attribute to enable or disable MPLS ping reply TLV

This command is supported when following feature are enabled MPLS-OAM feature enabled

Attribute Name: mpls-ping-reply

Attribute Type: empty

Netconf edit-config payload

```
<oam-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<config>
   </mpls-ping-reply><!-- operation="delete"-->
```

```
</config>
</oam-mpls>
```

Command Syntax

```
mpls-ping-reply-tlv
```

snmp restart bfd

Netconf RPC payload

```
<bfd-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd"/>
```

Command Syntax

```
snmp restart bfd
```

debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packets|ipc-error|ipc-event|session|nsm|all)

Netconf RPC payload

```
<bfd-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<terminal-debug-options>events</terminal-debug-options>
</bfd-terminal-debug-on>
```

Command Syntax

```
debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)
```

no debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packets|ipc-error|ipc-event|session|nsm|all)

Netconf RPC payload

```
<bfd-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<terminal-debug-options>events</terminal-debug-options>
</bfd-terminal-debug-off>
```

Command Syntax

```
no debug bfd (events|packets|ipc-error|ipc-event|session|nsm|all)
```

debug oam srv6

Netconf RPC payload

```
<debug-oam-srv6-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd"/>
```

Command Syntax

```
debug oam srv6
```

no debug oam srv6

Netconf RPC payload

```
<debug-oam-srv6-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd"/>
```

Command Syntax

```
no debug oam srv6
```

IPI-BFD-INTERFACE

Configure bfd disabled

Use this attribute to enable or disable all the BFD sessions on this interface.

Attribute Name: bfd-disabled

Attribute Type: uint8

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </bfd-disabled><!-- operation="delete"-->
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd disable
```

Configure bfd session type

Use this attribute to offload Single HOP BFD sessions to software or hardware.

Attribute Name: bfd-session-type

Attribute Type: enum (hardware|software)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
```

```
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <bfd-session-type>hardware</bfd-session-type> <!-- operation="delete"-->
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd session (hardware|software)
```

Configure detection multiplier

The number of packets that must be missed to declare this session as down. The detection interval for the BFD session is calculated by multiplying the value of the negotiated transmission interval by this value.

This command is supported when following feature are enabled BFD-MONO feature enabled

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <intervals>
    <interval> <!-- operation="delete"-->
        <detection-multiplier>3</detection-multiplier>
        <config>
            <detection-multiplier>3</detection-multiplier>
            <required-minimum-rx-interval>3</required-minimum-rx-interval>
            <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
        </config>
            <required-minimum-rx-interval>3</required-minimum-rx-interval>
            <desired-minimum-tx-interval>3</desired-minimum-tx-interval>
    </interval>
</intervals>
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd interval <3-999> minrx <3-999> multiplier <3-50>
```

Configure ipv4 source

Use this attribute to configure BFD echo packet IPv4 source address

Attribute Name: ipv4-source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <echo>
   <config>
          <ipv4-source>A.B.C.D</ipv4-source> <!-- operation="delete"-->
   </config>
</echo>
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
 echo ipv4 source A.B.C.D
```

Configure name

Use this attribute to configure BFD echo packet IPv4 source address

Attribute Name: ipv4-source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <echo>
   <config>
          <ipv4-source>A.B.C.D</ipv4-source> <!-- operation="delete"-->
   </config>
</echo>
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd echo ipv4 source A.B.C.D
```

Configure required minimum tx interval

Use this attribute to configure BFD echo packet transmission interval, in milliseconds

Attribute Name: required-minimum-tx-interval

Attribute Type: uint32

Attribute Range: 50-4294967

Netconf edit-config payload

```
   <bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <echo>
      <config>
            <required-minimum-tx-interval>50</required-minimum-tx-interval> <!--
operation="delete"-->
      </config>
   </echo>
   </interface>
   </interfaces>
   </bfd>
```

Command Syntax

```
bfd echo interval <50-4294967>
```

Configure key string

Use this attribute to specify the key authentication string

Attribute Name: key-string

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (simple|keyed-sha1|meticulous-keyed-sha1)

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 0-255

Attribute Name: key-encrypted

Attribute Type: enum (0|1)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <authentication>
   <config>
          <key-type>simple</key-type> <!-- operation="delete"-->
          <key-id>0</key-id> <!-- operation="delete"-->
          <key-encrypted>0</key-encrypted> <!-- operation="delete"-->
          <key-string>WORD</key-string> <!-- operation="delete"-->
   </config>
</authentication>
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd auth type (simple|keyed-sha1|meticulous-keyed-sha1) key-id <0-255> (0|1) key
  WORD
```

Configure session type

BFD session type

Attribute Name: session-type

Attribute Type: enum (singlehop|multihop)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <sessions>
   <session> <!-- operation="delete"-->
      <session-type>singlehop</session-type>
      <config>
         <session-type>singlehop</session-type>
         <remote-address>A.B.C.D</remote-address>
         <local-address>A.B.C.D</local-address>
      </config>
         <remote-address>A.B.C.D</remote-address>
         <local-address>A.B.C.D</local-address>
   </session>
```

```
</sessions>
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd session (A.B.C.D|X:X::X:X) (A.B.C.D|X:X::X:X) (multihop|)
```

Configure administrative down

BFD administrative down session

Attribute Name: administrative-down

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <sessions>
   <session>
      <session-type>singlehop</session-type>
      <config>
         <session-type>singlehop</session-type>
         <remote-address>A.B.C.D</remote-address>
         <local-address>A.B.C.D</local-address>
      </config>
         <remote-address>A.B.C.D</remote-address>
         <local-address>A.B.C.D</local-address>
         </administrative-down><!-- operation="delete"-->
   </session>
</sessions>
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd session (A.B.C.D|X:X::X:X) (A.B.C.D|X:X::X:X) (multihop|) admin-down
```

Configure non persistent

BFD non persistent session

Attribute Name: non-persistent

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <sessions>
   <session>
      <session-type>singlehop</session-type>
      <config>
         <session-type>singlehop</session-type>
         <remote-address>A.B.C.D</remote-address>
         <local-address>A.B.C.D</local-address>
      </config>
         <remote-address>A.B.C.D</remote-address>
         <local-address>A.B.C.D</local-address>
         </non-persistent><!-- operation="delete"-->
   </session>
</sessions>
</interface>
</interfaces>
</bfd>
```

Command Syntax

```
bfd session (A.B.C.D|X:X::X:X) (A.B.C.D|X:X::X:X) (multihop|) non-persistent
```

IPI-SEAMLESS-BFD

Configure sr policy name

This attribute is used to configure policy-name of the SR S-BFD session

Attribute Name: sr-policy-name

Attribute Type: string

Netconf edit-config payload

```
<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
<sr-policies>
<sr-policy> <!-- operation="delete"-->
   <sr-policy-name>NAME</sr-policy-name>
   <config>
      <sr-policy-name>WORD</sr-policy-name>
      <lsp-type>sr</lsp-type>
   </config>
   <lsp-type>sr</lsp-type>
</sr-policy>
```

```
</sr-policies>
</seamless-bfd>
```

Command Syntax

```
s-bfd (sr) policy NAME
```

Configure admin down

This attribute is used to shutdown selected S-BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
<sr-policies>
<sr-policy>
   <sr-policy-name>NAME</sr-policy-name>
   <config>
      <sr-policy-name>WORD</sr-policy-name>
      <lsp-type>sr</lsp-type>
   </config>
   <lsp-type>sr</lsp-type>
<session-attributes>
<config>
      </admin-down><!-- operation="delete"-->
</config>
</session-attributes>
</sr-policy>
</sr-policies>
</seamless-bfd>
```

Command Syntax

```
shutdown
```

Configure detection multiplier

This attribute is multiplied with minimum tx value to get detection time

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 3-50

Netconf edit-config payload

```
<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
<sr-policies>
<sr-policy>
   <sr-policy-name>NAME</sr-policy-name>
   <config>
```

```
        <sr-policy-name>WORD</sr-policy-name>
        <lsp-type>sr</lsp-type>
    </config>
    <lsp-type>sr</lsp-type>
<session-attributes>
<intervals>
<interval> <!-- operation="delete"-->
    <detection-multiplier>3</detection-multiplier>
    <config>
        <detection-multiplier>1</detection-multiplier>
        <minimum-tx>3</minimum-tx>
    </config>
        <minimum-tx>3</minimum-tx>
</interval>
</intervals>
</session-attributes>
</sr-policy>
</sr-policies>
</seamless-bfd>
```

Command Syntax

```
min-tx <3-999> multiplier <3-50>
```

Configure discriminator

This attribute is used to configure local discriminator value for reflector

Attribute Name: discriminator

Attribute Type: string

Netconf edit-config payload

```
<seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
<local-discriminators>
<local-discriminator> <!-- operation="delete"-->
    <discriminator>A.B.C.D</discriminator>
    <config>
        <discriminator>A.B.C.D</discriminator>
    </config>
</local-discriminator>
</local-discriminators>
</seamless-bfd>
```

Command Syntax

```
s-bfd discriminator A.B.C.D
```

Configure required min rx interval

This attribute is used to configure required minimum rx interval value for reflector

Attribute Name: required-min-rx-interval

Attribute Type: uint32

Attribute Range: 3-999

Netconf edit-config payload

```
    <seamless-bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-seamless-bfd">
    <local-discriminators>
    <local-discriminator>
        <discriminator>A.B.C.D</discriminator>
        <config>
            <discriminator>A.B.C.D</discriminator>
        </config>
        <required-min-rx-interval>3</required-min-rx-interval> <!-- operation="delete"--
>
    </local-discriminator>
    </local-discriminators>
    </seamless-bfd>
```

Command Syntax

```
     s-bfd discriminator A.B.C.D required-min-rx <3-999>
```

IPI-IGP-TE

Configure delay

Use this attribute to specify a unidirectional, link delay value for the interface

Attribute Name: delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
    <igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
    <interfaces>
    <interface>
        <name>WORD</name>
        <config>
            <name>WORD</name>
        </config>
    <uni-link>
    <config>
           <delay>1</delay> <!-- operation="delete"-->
    </config>
    </uni-link>
    </interface>
    </interfaces>
    </igp-te>
```

Command Syntax

```
delay-measurement static uni-link-delay <1-16777215>
```

Configure delay variation

Use this attribute to specify a unidirectional, link delay variation value for the interface

Attribute Name: delay-variation

Attribute Type: uint32

Attribute Range: 0-16777215

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
<config>
      <delay-variation>0</delay-variation> <!-- operation="delete"-->
</config>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
delay-measurement static uni-delay-variation <0-16777215>
```

Configure loss percentage

Use this attribute to specify a unidirectional, link loss value for the interface

Attribute Name: loss-percentage

Attribute Type: decimal64

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
<config>
      <loss-percentage>VALUE</loss-percentage> <!-- operation="delete"-->
```

```
</config>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
loss-measurement static uni-link-loss VALUE
```

Configure loss dynamic

Use this attribute to specify a loss percentage value dynamically for the interface

This command is supported when following feature are enabled TE feature

Attribute Name: loss-dynamic

Attribute Type: empty

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
<twamp-loss-parameter>
<config>
      </loss-dynamic><!-- operation="delete"-->
</config>
</twamp-loss-parameter>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
loss-measurement dynamic
```

Configure name

Use this attribute to specify a loss percentage value dynamically for the interface

This command is supported when following feature are enabled TE feature

Attribute Name: loss-dynamic

Attribute Type: empty

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
```

```
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<uni-link>
<irb-twamp-loss-parameter>
<config>
       </loss-dynamic><!-- operation="delete"-->
</config>
</irb-twamp-loss-parameter>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
 loss-measurement dynamic
```

Configure dscp

Use this attribute to classify traffic based on the Differentiated Services Code Point (DSCP) value. The DSCP value range is 0-63.Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such.On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

This command is supported when following feature are enabled TE feature

Attribute Name: dscp

Attribute Type: string

Attribute Range: 1-8

Attribute Name: reflector-port

Attribute Type: union

Attribute Name: sender-ip

Attribute Type: union

Attribute Name: sender-port

Attribute Type: union

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<uni-link>
<twamp-session-parameters>
```

```
<twamp-session-parameter>
   <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
   <config>
      <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
      <reflector-port>862</reflector-port> <!-- operation="delete"-->
      <sender-ip>CML_HOSTPNAME_T</sender-ip>
      <sender-port>862</sender-port> <!-- operation="delete"-->
   </config>
      <dscp>WORD</dscp> <!-- operation="delete"-->
</twamp-session-parameter>
</twamp-session-parameters>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
delay-measurement dynamic twamp reflector-ip (A.B.C.D|X:X::X:X|HOSTNAME)
  (reflector-port (862|<1025-65535>)|) (sender-ip (A.B.C.D|X:X::X:X|HOSTNAME)|)
  (sender-port (862|<1025-65535>)|) (dscp WORD|)
```

Configure reflector ip

Use this attribute to classify traffic based on the Differentiated Services Code Point (DSCP) value. The DSCP value range is 0-63.Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such.On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

This command is supported when following feature are enabled TE feature

Attribute Name: dscp

Attribute Type: string

Attribute Range: 1-8

Attribute Name: reflector-port

Attribute Type: union

Attribute Name: sender-ip

Attribute Type: union

Attribute Name: sender-port

Attribute Type: union

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
```

```
<twamp-session-parameters>
<irb-twamp-session-parameter>
   <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
   <config>
      <reflector-ip>CML_HOSTPNAME_T</reflector-ip>
      <reflector-port>862</reflector-port> <!-- operation="delete"-->
      <sender-ip>CML_HOSTPNAME_T</sender-ip>
      <sender-port>862</sender-port> <!-- operation="delete"-->
   </config>
      <dscp>WORD</dscp> <!-- operation="delete"-->
</irb-twamp-session-parameter>
</twamp-session-parameters>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
 delay-measurement dynamic twamp reflector-ip (A.B.C.D|X:X::X:X|HOSTNAME)
   (reflector-port (862|<1025-65535>)|) (sender-ip (A.B.C.D|X:X::X:X|HOSTNAME)|)
   (sender-port (862|<1025-65535>)|) (dscp WORD|)
```

Configure a bit max

use this attribute to configure a-bit-max

Attribute Name: a-bit-max

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
<delay-threshold>
<a-bit> <!-- operation="delete"-->
   <a-bit-max>1</a-bit-max>
   <config>
      <a-bit-max>1</a-bit-max>
      <a-bit-min>1</a-bit-min>
   </config>
      <a-bit-min>1</a-bit-min>
</a-bit>
</delay-threshold>
</uni-link>
```

```
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
delay-measurement a-bit-delay-threshold min <1-16777215> max <1-16777215>
```

Configure max value

use this attribute to configure max-value

Attribute Name: max-value

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
<min-max-delay>
<delay> <!-- operation="delete"-->
   <max-value>1</max-value>
   <config>
      <max-value>1</max-value>
      <min-value>1</min-value>
   </config>
      <min-value>1</min-value>
</delay>
</min-max-delay>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
delay-measurement static min-max-uni-link-delay <1-16777215> <1-16777215>
```

Configure loss a bit max

use this attribute to configure loss-a-bit-max

Attribute Name: loss-a-bit-max

Attribute Type: decimal64

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
<loss>
<threshold> <!-- operation="delete"-->
   <loss-a-bit-max>VALUE</loss-a-bit-max>
   <config>
      <loss-a-bit-max>VALUE</loss-a-bit-max>
      <loss-a-bit-min>VALUE</loss-a-bit-min>
   </config>
      <loss-a-bit-min>VALUE</loss-a-bit-min>
</threshold>
</loss>
</uni-link>
</interface>
</interfaces>
</igp-te>
```

Command Syntax

```
 loss-measurement a-bit-loss-threshold min VALUE max VALUE
```

Configure a bit max range maximum

use this attribute to configure a-bit-max-range-maximum

Attribute Name: a-bit-max-range-maximum

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<igp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igp-te">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<uni-link>
<min-max-delay-threshold>
<a-bit> <!-- operation="delete"-->
   <a-bit-max-range-maximum>1</a-bit-max-range-maximum>
   <config>
      <a-bit-max-range-maximum>1</a-bit-max-range-maximum>
```

```
          <a-bit-max-range-minimum>1</a-bit-max-range-minimum>
          <a-bit-min-range-maximum>1</a-bit-min-range-maximum>
          <a-bit-min-range-minimum>1</a-bit-min-range-minimum>
       </config>
          <a-bit-max-range-minimum>1</a-bit-max-range-minimum>
          <a-bit-min-range-maximum>1</a-bit-min-range-maximum>
          <a-bit-min-range-minimum>1</a-bit-min-range-minimum>
    </a-bit>
    </min-max-delay-threshold>
    </uni-link>
    </interface>
    </interfaces>
    </igp-te>
```

Command Syntax

```
delay-measurement a-bit-min-max-delay-threshold min <1-16777215> <1-16777215> max
  <1-16777215> <1-16777215>
```

clear twamp measurement interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-128

Netconf RPC payload

```
       <twamp-clear-measurement-intf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
igp-te">
       <interface-name>IFNAME</interface-name>
       </twamp-clear-measurement-intf>
```

Command Syntax

```
clear twamp measurement interface IFNAME
```

clear twamp measurement interface all

Netconf RPC payload

```
       <twamp-clear-measurement-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
igp-te"/>
```

Command Syntax

```
clear twamp measurement interface all
```

IPI-VRRP

Configure disable virtual router mac address

Use this attribute to enable or disable Virtual MAC (VMAC). This affects all VRRP groups in a router. On a single network segment, multiple VRRP groups can be configured, each using a different VMAC. The use of VMAC addressing allows for faster switchover when a backup router assumes the master role. When this attribute is used to enable a VMAC, the virtual router forwards packets with a special-purpose multicast VMAC address (0:0:5e:0:01:VR_ID). Otherwise, it forwards with interface physical address.The VMAC address is assigned to a router interface at the time the VRRP group is enabled in the router.

Attribute Name: disable-virtual-router-mac-address

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<global>
<config>
   </disable-virtual-router-mac-address><!-- operation="delete"-->
</config>
</global>
</vrrp>
```

Command Syntax

```
 vrrp vmac disable
```

Configure vrrp v2 compatible

Use this attribute to enable or disable backward-compatibility feature. When enabled, both VRRPv3 and VRRPv2 interoperation are supported.

Attribute Name: vrrp-v2-compatible

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<global>
<config>
   </vrrp-v2-compatible><!-- operation="delete"-->
</config>
</global>
</vrrp>
```

Command Syntax

```
 vrrp compatible-v2 enable
```

Configure ipv4 exclude pseudo header

This command excludes the pseudo-header in IPv4 VRRPv3 checksum calculation on the VRRP group

Attribute Name: ipv4-exclude-pseudo-header

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<global>
<config>
   </ipv4-exclude-pseudo-header><!-- operation="delete"-->
</config>
</global>
</vrrp>
```

Command Syntax

```
vrrp ipv4-exclude-pseudo-header enable
```

Configure options

use this attribute to specify debugging options for VRRP

Attribute Name: options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<debug>
<config>
   <options>14</options> <!-- operation="delete"-->
</config>
</debug>
</vrrp>
```

Command Syntax

```
debug vrrp
```

Configure debug options

use this attribute to specify debugging options for VRRP

Attribute Name: options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<debug>
<config>
   <options>all</options> <!-- operation="delete"-->
```

```
</config>
</debug>
</vrrp>
```

Command Syntax

```
debug vrrp (all|packet|events|packet send|packet recv)
```

Configure interface name

Use this attribute to configure an VRRP routing process for an interface.

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface> <!-- operation="delete"-->
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
router vrrp <1-255> IFNAME
```

Configure disable preempt mode

Use this attribute to configure preempt mode. If set to true, the highest priority backup is always the master when the default master is unavailable. If set to false, a higher priority backup does not preempt a lower priority backup which is acting as master

Attribute Name: disable-preempt-mode

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
```

```
    <virtual-router-id>1</virtual-router-id>
    <config>
       <virtual-router-id>1</virtual-router-id>
    </config>
<interfaces>
<interface>
    <interface-name>IFNAME</interface-name>
    <config>
       <interface-name>WORD</interface-name>
    </config>
       </disable-preempt-mode><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
 preempt-mode false
```

Configure disable accept mode

Use this attribute to enable accept mode for the session

Attribute Name: disable-accept-mode

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
    <virtual-router-id>1</virtual-router-id>
    <config>
       <virtual-router-id>1</virtual-router-id>
    </config>
<interfaces>
<interface>
    <interface-name>IFNAME</interface-name>
    <config>
       <interface-name>WORD</interface-name>
    </config>
       </disable-accept-mode><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
 accept-mode false
```

Configure virtual router id

Use this attribute to enable or disable the backward-compatibility feature

Attribute Name: vrrp-v2-compatible

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      </vrrp-v2-compatible><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
 v2-compatible
```

Configure interface ipv4-exclude-pseudo-header

Use this attribute to excludes the pseudo-header in IPv4 VRRPv3 checksum calculation

Attribute Name: ipv4-exclude-pseudo-header

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
```

```
          <interface-name>WORD</interface-name>
       </config>
          </ipv4-exclude-pseudo-header><!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv4-instance>
   </ipv4-instances>
   </vrrp>
```

Command Syntax

```
    ipv4-exclude-pseudo-header
```

Configure authentication data

Use this attribute to include authentication simple text

Attribute Name: authentication-data

Attribute Type: string

Netconf edit-config payload

```
   <vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
   <ipv4-instances>
   <ipv4-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
         <virtual-router-id>1</virtual-router-id>
      </config>
   <interfaces>
   <interface>
      <interface-name>IFNAME</interface-name>
      <config>
         <interface-name>WORD</interface-name>
      </config>
         <authentication-data>TEXT-STRING</authentication-data> <!--
operation="delete"-->
   </interface>
   </interfaces>
   </ipv4-instance>
   </ipv4-instances>
   </vrrp>
```

Command Syntax

```
    authentication text TEXT-STRING
```

Configure primary ip address

Use this attribute to set the operational-ip address for the virtual router

Attribute Name: primary-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      <primary-ip-address>A.B.C.D</primary-ip-address> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
 operational-ip A.B.C.D
```

Configure mlag active standby

Use this attribute to set active-standby mlag mode

Attribute Name: mlag-active-standby

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      </mlag-active-standby><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
```

```
</vrrp>
```

Command Syntax

```
mlag active-standby
```

Configure priority

Use this attribute to configure the VRRP router priority within the virtual router. Priority determines the role that each VRRP router plays and what happens if the master virtual router fails. If a VRRP router owns the IP address of the virtual router and the IP address of the physical interface, this router functions as the master virtual router

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 1-254

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      <priority>1</priority> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
priority <1-254>
```

Configure preempt delay

Use this attribute to set a switch-back delay timer for the master VRRP router. This feature prevents the original master VRRP router from transitioning back to the master state after coming back online until the configured delay timer has expired.

Attribute Name: preempt-delay

Attribute Type: uint32

Attribute Range: 1-500000

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      <preempt-delay>1</preempt-delay> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
 switch-back-delay <1-500000>
```

Configure advertisement interval

Use this attribute to configure the advertisement interval of a virtual router. This is the length of time, in seconds, between each advertisement sent from the master to its backup(s). The master virtual router sends VRRP advertisements to other VRRP routers in the same group. The advertisements communicate the priority and state of the master virtual router. The VRRP advertisements are encapsulated in IP packets and sent to the multicast address assigned to the VRRP group (224.0.0.18). Advertisements are sent every second by default.

Attribute Name: advertisement-interval

Attribute Type: uint16

Default Value: 100

Attribute Range: 5-4095

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
```

```
        <interface-name>WORD</interface-name>
      </config>
        <advertisement-interval>5</advertisement-interval> <!-- operation="delete"-->
  </interface>
  </interfaces>
  </ipv4-instance>
  </ipv4-instances>
  </vrrp>
```

Command Syntax

```
advertisement-interval <5-4095>
```

Configure enable

Use this attribute to enable a VRRP session on the router (to make it participate in virtual routing). To make any changes to the VRRP configuration, first disable the router from participating in virtual routing using the disable command

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <protocol-enable>
   <config>
         </enable><!-- operation="delete"-->
   </config>
</protocol-enable>
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
enable
```

Configure ip address owner

Use this attribute to set the virtual IP address for the VRRP virtual router as VRRP Owner. This is the IP address used by end hosts to address their default gateway.

Attribute Name: ip-address-owner

Attribute Type: boolean

Attribute Name: virtual-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <virtual-ip>
   <config>
          <virtual-ip-address>A.B.C.D</virtual-ip-address>
          <ip-address-owner>true</ip-address-owner>
   </config>
</virtual-ip>
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
 virtual-ip A.B.C.D (owner|)
```

Configure interface tracking name

Use this command to enable the VRRP circuit failover feature.

Attribute Name: interface-tracking-name

Attribute Type: string

Attribute Name: priority-decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <interfaces-tracking>
   <interface-tracking> <!-- operation="delete"-->
      <interface-tracking-name>IFNAME</interface-tracking-name>
      <config>
         <interface-tracking-name>WORD</interface-tracking-name>
         <priority-decrement>1</priority-decrement>
      </config>
   </interface-tracking>
</interfaces-tracking>
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
circuit-failover IFNAME <1-253>
```

Configure tracking id

Use this command to enable the VRRP object tracking feature.

This command is supported when following feature are enabled HAVE_OBJ_TRACKING

Attribute Name: tracking-id

Attribute Type: uint16

Attribute Name: decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv4-instances>
<ipv4-instance>
   <virtual-router-id>1</virtual-router-id>
```

```
    <config>
       <virtual-router-id>1</virtual-router-id>
    </config>
<interfaces>
<interface>
    <interface-name>IFNAME</interface-name>
    <config>
       <interface-name>WORD</interface-name>
    </config>
    <objects-tracking>
    <object-tracking> <!-- operation="delete"-->
       <tracking-id>0</tracking-id>
       <config>
          <tracking-id>1</tracking-id>
          <decrement>1</decrement>
       </config>
    </object-tracking>
</objects-tracking>
</interface>
</interfaces>
</ipv4-instance>
</ipv4-instances>
</vrrp>
```

Command Syntax

```
 track <0-65535> decrement <1-253>
```

Configure interfaces interface-name

Use this attribute to configure an VRRP routing process for an interface.

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
    <virtual-router-id>1</virtual-router-id>
    <config>
       <virtual-router-id>1</virtual-router-id>
    </config>
<interfaces>
<interface> <!-- operation="delete"-->
    <interface-name>IFNAME</interface-name>
    <config>
       <interface-name>WORD</interface-name>
    </config>
</interface>
</interfaces>
```

```
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
router ipv6 vrrp <1-255> IFNAME
```

Configure interface disable-preempt-mode

Use this attribute to configure preempt mode. If set to true, the highest priority backup is always the master when the default master is unavailable. If set to false, a higher priority backup does not preempt a lower priority backup which is acting as master

Attribute Name: disable-preempt-mode

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      </disable-preempt-mode><!-- operation="delete"-->
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
preempt-mode false
```

Configure interface disable-accept-mode

Use this attribute to enable accept mode for the session

Attribute Name: disable-accept-mode

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
```

```
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      </disable-accept-mode><!-- operation="delete"-->
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
 accept-mode false
```

Configure interface primary-ip-address

Use this attribute to set the operational-ip address for the virtual router

Attribute Name: primary-ip-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      <primary-ip-address>X:X::X:X</primary-ip-address> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
operational-ipv6 X:X::X:X
```

Configure interface priority

Use this attribute to configure the VRRP router priority within the virtual router. Priority determines the role that each VRRP router plays and what happens if the master virtual router fails. If a VRRP router owns the IP address of the virtual router and the IP address of the physical interface, this router functions as the master virtual router

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 1-254

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      <priority>1</priority> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
priority <1-254>
```

Configure interface preempt-delay

Use this attribute to set a switch-back delay timer for the master VRRP router. This feature prevents the original master VRRP router from transitioning back to the master state after coming back online until the configured delay timer has expired.

Attribute Name: preempt-delay

Attribute Type: uint32

Attribute Range: 1-500000

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
```

```
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      <preempt-delay>1</preempt-delay> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
switch-back-delay <1-500000>
```

Configure interface advertisement-interval

Use this attribute to configure the advertisement interval of a virtual router. This is the length of time, in seconds, between each advertisement sent from the master to its backup(s). The master virtual router sends VRRP advertisements to other VRRP routers in the same group. The advertisements communicate the priority and state of the master virtual router. The VRRP advertisements are encapsulated in IP packets and sent to the multicast address assigned to the VRRP group (224.0.0.18). Advertisements are sent every second by default.

Attribute Name: advertisement-interval

Attribute Type: uint16

Default Value: 100

Attribute Range: 5-4095

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
      <advertisement-interval>5</advertisement-interval> <!-- operation="delete"-->
```

```
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
advertisement-interval <5-4095>
```

Configure protocol-enable enable

Use this attribute to enable a VRRP session on the router (to make it participate in virtual routing). To make any changes to the VRRP configuration, first disable the router from participating in virtual routing using the disable command

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <protocol-enable>
   <config>
         </enable><!-- operation="delete"-->
   </config>
</protocol-enable>
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
enable
```

Configure virtual ip address

VRRP Virtual IPV6 address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: virtual-ip-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
   <config>
      <virtual-router-id>1</virtual-router-id>
   </config>
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <virtual-ip-addresses>
   <virtual-ip-address> <!-- operation="delete"-->
      <virtual-ip-address>X:X::X:X</virtual-ip-address>
      <config>
         <virtual-ip-address>X:X::X:X</virtual-ip-address>
      </config>
   </virtual-ip-address>
</virtual-ip-addresses>
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
virtual-ipv6 X:X::X:X
```

Configure virtual-ip-address ip-address-owner

Use this attribute to set the virtual IP address for the VRRP virtual router as VRRP Owner. This is the IP address used by end hosts to address their default gateway.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ip-address-owner

Attribute Type: boolean

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
   <virtual-router-id>1</virtual-router-id>
```

```
    <config>
       <virtual-router-id>1</virtual-router-id>
    </config>
<interfaces>
<interface>
    <interface-name>IFNAME</interface-name>
    <config>
       <interface-name>WORD</interface-name>
    </config>
    <virtual-ip-addresses>
    <virtual-ip-address>
       <virtual-ip-address>X:X::X:X</virtual-ip-address>
       <config>
          <virtual-ip-address>X:X::X:X</virtual-ip-address>
       </config>
          <ip-address-owner>true</ip-address-owner> <!-- operation="delete"-->
    </virtual-ip-address>
</virtual-ip-addresses>
</interface>
</interfaces>
</ipv6-instance>
</ipv6-instances>
</vrrp>
```

Command Syntax

```
 virtual-ipv6 X:X::X:X (owner|)
```

Configure priority decrement

Use this command to enable the VRRP circuit failover feature.

Attribute Name: interface-tracking-name

Attribute Type: string

Attribute Name: priority-decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```
<vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<ipv6-instances>
<ipv6-instance>
    <virtual-router-id>1</virtual-router-id>
    <config>
       <virtual-router-id>1</virtual-router-id>
    </config>
<interfaces>
<interface>
    <interface-name>IFNAME</interface-name>
    <config>
```

```
        <interface-name>WORD</interface-name>
      </config>
      <interfaces-tracking>
      <interface-tracking> <!-- operation="delete"-->
         <interface-tracking-name>IFNAME</interface-tracking-name>
         <config>
            <interface-tracking-name>WORD</interface-tracking-name>
            <priority-decrement>1</priority-decrement>
         </config>
      </interface-tracking>
   </interfaces-tracking>
   </interface>
   </interfaces>
   </ipv6-instance>
   </ipv6-instances>
   </vrrp>
```

Command Syntax

```
circuit-failover IFNAME <1-253>
```

Configure decrement

Use this command to enable the VRRP object tracking feature.

This command is supported when following feature are enabled HAVE_OBJ_TRACKING

Attribute Name: tracking-id

Attribute Type: uint16

Attribute Name: decrement

Attribute Type: uint8

Attribute Range: 1-253

Netconf edit-config payload

```
   <vrrp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
   <ipv6-instances>
   <ipv6-instance>
      <virtual-router-id>1</virtual-router-id>
      <config>
         <virtual-router-id>1</virtual-router-id>
      </config>
   <interfaces>
   <interface>
      <interface-name>IFNAME</interface-name>
      <config>
         <interface-name>WORD</interface-name>
      </config>
      <objects-tracking>
      <object-tracking> <!-- operation="delete"-->
         <tracking-id>0</tracking-id>
         <config>
```

```
            <tracking-id>1</tracking-id>
            <decrement>1</decrement>
         </config>
      </object-tracking>
   </objects-tracking>
   </interface>
   </interfaces>
   </ipv6-instance>
   </ipv6-instances>
   </vrrp>
```

Command Syntax

```
track <0-65535> decrement <1-253>
```

snmp restart vrrp

Netconf RPC payload

```
      <vrrp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
snmp restart vrrp
```

clear vrrp global statistics

Netconf RPC payload

```
      <vrrp-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
clear vrrp global statistics
```

clear vrrp ipv4 statistics

Netconf RPC payload

```
      <vrrp-clear-ipv4-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vrrp"/>
```

Command Syntax

```
clear vrrp ipv4 statistics
```

clear vrrp ipv6 statistics

Netconf RPC payload

```
      <vrrp-clear-ipv6-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vrrp"/>
```

Command Syntax

```
clear vrrp ipv6 statistics
```

clear vrrp ipv4 statistics <1-255> IFNAME

Attribute Name: vrrp-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<vrrp-clear-session-ipv4-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vrrp">
<vrrp-id>1</vrrp-id>
<interface-name>IFNAME</interface-name>
</vrrp-clear-session-ipv4-statistics>
```

Command Syntax

```
clear vrrp ipv4 statistics <1-255> IFNAME
```

clear vrrp ipv6 statistics <1-255> IFNAME

Attribute Name: vrrp-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
<vrrp-clear-session-ipv6-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vrrp">
<vrrp-id>1</vrrp-id>
<interface-name>IFNAME</interface-name>
</vrrp-clear-session-ipv6-statistics>
```

Command Syntax

```
clear vrrp ipv6 statistics <1-255> IFNAME
```

debug vrrp

Netconf RPC payload

```
<vrrp-terminal-debug-all-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vrrp"/>
```

Command Syntax

```
debug vrrp
```

no debug vrrp

Netconf RPC payload

```
<vrrp-terminal-debug-all-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp"/>
```

Command Syntax

```
no debug vrrp
```

debug vrrp (all|packet|events|packet send|packet recv)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf RPC payload

```
<vrrp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<terminal-debug-options>all</terminal-debug-options>
</vrrp-terminal-debug-on>
```

Command Syntax

```
debug vrrp (all|packet|events|packet send|packet recv)
```

no debug vrrp (all|packet|events|packet send|packet recv)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|packet|events|packet send|packet recv)

Netconf RPC payload

```
<vrrp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrrp">
<terminal-debug-options>all</terminal-debug-options>
</vrrp-terminal-debug-off>
```

Command Syntax

```
no debug vrrp (all|packet|events|packet send|packet recv)
```

IPI-PREFIX-LIST

Configure prefix list name

prefix-list name

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
<prefix> <!-- operation="delete"-->
   <prefix-list-type>ip</prefix-list-type>
   <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
   </config>
   <prefix-list-name>WORD</prefix-list-name>
</prefix>
</prefixes>
```

Command Syntax

```
ip prefix-list WORD
```

Configure prefix list type

prefix-list name

Attribute Name: prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
<prefix> <!-- operation="delete"-->
   <prefix-list-type>ipv6</prefix-list-type>
   <config>
      <prefix-list-type>ipv6</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
   </config>
   <prefix-list-name>WORD</prefix-list-name>
</prefix>
</prefixes>
```

Command Syntax

```
ipv6 prefix-list WORD
```

Configure description

Up to 80 characters describing this prefix-list

Attribute Name: description

Attribute Type: string

Attribute Range: 1-80

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
```

```
<prefix>
   <prefix-list-type>ip</prefix-list-type>
   <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
   </config>
   <prefix-list-name>WORD</prefix-list-name>
   <description>LINE</description> <!-- operation="delete"-->
</prefix>
</prefixes>
```

Command Syntax

```
 description LINE
```

Configure prefix addr

Either IP address mask and length of the prefix list mask or Take all packets of any length. This parameter is the same as using 0.0.0.0/0 le 32 for A.B.C.D/M.

Attribute Name: prefix-addr

Attribute Type: union

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
<prefix>
   <prefix-list-type>ip</prefix-list-type>
   <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
   </config>
   <prefix-list-name>WORD</prefix-list-name>
<prefix-entries>
<prefix-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <entry>
      <prefix-addr>any</prefix-addr>
      <config>
         <prefix-addr>any</prefix-addr>
         <action>deny</action>
      </config>
         <action>deny</action>
   </entry>
</ipv4>
</prefix-entry>
</prefix-entries>
</prefix>
```

```
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) any
```

Configure sequence id

Either IP address mask and length of the prefix list mask or Take all packets of any length. This parameter is the same as using 0.0.0.0/0 le 32 for A.B.C.D/M.

Attribute Name: prefix-addr

Attribute Type: enum (any)

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
<prefix>
   <prefix-list-type>ip</prefix-list-type>
   <config>
      <prefix-list-type>ip</prefix-list-type>
      <prefix-list-name>WORD</prefix-list-name>
   </config>
   <prefix-list-name>WORD</prefix-list-name>
<prefix-entries>
<prefix-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <entry>
      <prefix-addr>any</prefix-addr>
      <config>
         <prefix-addr>any</prefix-addr>
         <action>deny</action>
      </config>
         <action>deny</action>
   </entry>
</ipv4>
</prefix-entry>
</prefix-entries>
</prefix>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit)
```

Configure maximum prefix length match

Maximum prefix length match

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <entry>
         <prefix-addr>any</prefix-addr>
         <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
         </config>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv4>
   </prefix-entry>
   </prefix-entries>
   </prefix>
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) ge <0-32> le <0-32>
```

Configure minimum prefix length match

Minimum prefix length match

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <entry>
         <prefix-addr>any</prefix-addr>
         <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
         </config>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv4>
   </prefix-entry>
   </prefix-entries>
   </prefix>
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) le <0-32> ge <0-32>
```

Configure action

Minimum prefix length match

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <entry>
         <prefix-addr>any</prefix-addr>
         <config>
            <prefix-addr>any</prefix-addr>
            <action>deny</action>
         </config>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv4>
   </prefix-entry>
   </prefix-entries>
   </prefix>
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) ge <0-32>
```

Configure entry maximum-prefix-length-match

Maximum prefix length match

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
```

```
          <prefix-list-type>ip</prefix-list-type>
          <prefix-list-name>WORD</prefix-list-name>
       </config>
       <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <entry>
          <prefix-addr>any</prefix-addr>
          <config>
             <prefix-addr>any</prefix-addr>
             <action>deny</action>
          </config>
             <action>deny</action>
             <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
       </entry>
   </ipv4>
   </prefix-entry>
   </prefix-entries>
   </prefix>
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) le <0-32>
```

Configure exact prefix length match

Exact prefix length match

Attribute Name: exact-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
       <prefix-list-type>ip</prefix-list-type>
       <config>
          <prefix-list-type>ip</prefix-list-type>
          <prefix-list-name>WORD</prefix-list-name>
       </config>
       <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
       <sequence-id>1</sequence-id>
```

```
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <entry>
          <prefix-addr>any</prefix-addr>
          <config>
             <prefix-addr>any</prefix-addr>
             <action>deny</action>
          </config>
             <action>deny</action>
             <exact-prefix-length-match>0</exact-prefix-length-match> <!--
operation="delete"-->
       </entry>
    </ipv4>
    </prefix-entry>
    </prefix-entries>
    </prefix>
    </prefixes>
```

Command Syntax

```
     (seq <1-4294967295>|) (deny|permit) eq <0-32>
```

Configure ipv6 prefix addr

Either IPv6 address mask and length of the prefix list mask or This is the same as specifying ::/0 for X:X::X:X/M

This command is supported when following feature are enabled ipv6 feature

Attribute Name: ipv6-prefix-addr

Attribute Type: union

Netconf edit-config payload

```
    <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
    <prefix>
       <prefix-list-type>ip</prefix-list-type>
       <config>
          <prefix-list-type>ip</prefix-list-type>
          <prefix-list-name>WORD</prefix-list-name>
       </config>
       <prefix-list-name>WORD</prefix-list-name>
    <prefix-entries>
    <prefix-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv6>
       <entry> <!-- operation="delete"-->
          <ipv6-prefix-addr>any</ipv6-prefix-addr>
          <config>
```

```
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
        </config>
            <action>deny</action>
    </entry>
</ipv6>
</prefix-entry>
</prefix-entries>
</prefix>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) any
```

Configure ipv6 ipv6-prefix-addr

Either IPv6 address mask and length of the prefix list mask or This is the same as specifying ::/0 for X:X::X:X/M

This command is supported when following feature are enabled ipv6 feature

Attribute Name: ipv6-prefix-addr

Attribute Type: union

Netconf edit-config payload

```
<prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
<prefix>
    <prefix-list-type>ip</prefix-list-type>
    <config>
        <prefix-list-type>ip</prefix-list-type>
        <prefix-list-name>WORD</prefix-list-name>
    </config>
    <prefix-list-name>WORD</prefix-list-name>
<prefix-entries>
<prefix-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv6>
    <entry> <!-- operation="delete"-->
        <ipv6-prefix-addr>any</ipv6-prefix-addr>
        <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
        </config>
            <action>deny</action>
    </entry>
</ipv6>
</prefix-entry>
</prefix-entries>
</prefix>
```

```
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) X:X::X:X/M
```

Configure entry maximum-prefix-length-match

Maximum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv6>
      <entry>
         <ipv6-prefix-addr>any</ipv6-prefix-addr>
         <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
         </config>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv6>
   </prefix-entry>
   </prefix-entries>
   </prefix>
```

```
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) ge <0-128> le <0-128>
```

Configure entry minimum-prefix-length-match

Minimum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv6>
      <entry>
         <ipv6-prefix-addr>any</ipv6-prefix-addr>
         <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
         </config>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv6>
   </prefix-entry>
   </prefix-entries>
   </prefix>
```

```
   </prefixes>
```

Command Syntax

```
     (seq <1-4294967295>|) (deny|permit) le <0-128> ge <0-128>
```

Configure entry minimum-prefix-length-match

Minimum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: minimum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv6>
      <entry>
         <ipv6-prefix-addr>any</ipv6-prefix-addr>
         <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
         </config>
            <action>deny</action>
            <minimum-prefix-length-match>0</minimum-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv6>
   </prefix-entry>
   </prefix-entries>
   </prefix>
   </prefixes>
```

Command Syntax

```
     (seq <1-4294967295>|) (deny|permit) ge <0-128>
```

Configure entry maximum-prefix-length-match

Maximum prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: maximum-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv6>
      <entry>
         <ipv6-prefix-addr>any</ipv6-prefix-addr>
         <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
         </config>
            <action>deny</action>
            <maximum-prefix-length-match>0</maximum-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv6>
   </prefix-entry>
   </prefix-entries>
   </prefix>
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) le <0-128>
```

Configure entry exact-prefix-length-match

Exact prefix length match

This command is supported when following feature are enabled ipv6 feature

Attribute Name: exact-prefix-length-match

Attribute Type: uint8

Attribute Range: 0-128

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <prefix>
      <prefix-list-type>ip</prefix-list-type>
      <config>
         <prefix-list-type>ip</prefix-list-type>
         <prefix-list-name>WORD</prefix-list-name>
      </config>
      <prefix-list-name>WORD</prefix-list-name>
   <prefix-entries>
   <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv6>
      <entry>
         <ipv6-prefix-addr>any</ipv6-prefix-addr>
         <config>
            <ipv6-prefix-addr>any</ipv6-prefix-addr>
            <action>deny</action>
         </config>
            <action>deny</action>
            <exact-prefix-length-match>0</exact-prefix-length-match> <!--
operation="delete"-->
      </entry>
   </ipv6>
   </prefix-entry>
   </prefix-entries>
   </prefix>
   </prefixes>
```

Command Syntax

```
    (seq <1-4294967295>|) (deny|permit) eq <0-128>
```

Configure disable ipv4 sequence display

Use this attribute to configure prefix list sequence number.Include and exclude sequence numbers in nonvolatile generation (NVGEN).

Attribute Name: disable-ipv4-sequence-display

Attribute Type: empty

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <global>
   <config>
```

```
      </disable-ipv4-sequence-display><!-- operation="delete"-->
   </config>
   </global>
   </prefixes>
```

Command Syntax

```
    no ip prefix-list sequence-number
```

Configure disable ipv6 sequence display

Use this attribute to configure prefix list sequence number.Include and exclude sequence numbers in nonvolatile generation (NVGEN).

Attribute Name: disable-ipv6-sequence-display

Attribute Type: empty

Netconf edit-config payload

```
   <prefixes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
   <global>
   <config>
      </disable-ipv6-sequence-display><!-- operation="delete"-->
   </config>
   </global>
   </prefixes>
```

Command Syntax

```
    no ipv6 prefix-list sequence-number
```

clear ip prefix-list

Netconf RPC payload

```
      <clear-prefix-list-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-
list"/>
```

Command Syntax

```
    clear ip prefix-list
```

clear ipv6 prefix-list

Netconf RPC payload

```
      <clear-prefix-list-ipv6-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
prefix-list"/>
```

Command Syntax

```
    clear ipv6 prefix-list
```

clear ip prefix-list WORD (A.B.C.D/M|)

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
       <clear-ipv4-prefix-list xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-
list">
       <prefix-list-name>WORD</prefix-list-name>
       <prefix>A.B.C.D/M</prefix>
       </clear-ipv4-prefix-list>
```

Command Syntax

```
    clear ip prefix-list WORD (A.B.C.D/M|)
```

clear ipv6 prefix-list WORD (X:X::X:X/M|)

Attribute Name: prefix-list-name

Attribute Type: string

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
       <clear-ipv6-prefix-list xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-
list">
       <prefix-list-name>WORD</prefix-list-name>
       <prefix>X:X::X:X/M</prefix>
       </clear-ipv6-prefix-list>
```

Command Syntax

```
    clear ipv6 prefix-list WORD (X:X::X:X/M|)
```

IPI-PREFIX-GROUP

Configure name

Use this attribute to set the prefix-group name.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
<prefix-group> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
      <type>ip</type>
   </config>
   <type>ip</type>
</prefix-group>
</prefix-groups>
```

Command Syntax

```
ip prefix-group WORD
```

Configure type

Use this attribute to set the prefix-group name.

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
<prefix-group> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
      <type>ipv6</type>
   </config>
   <type>ipv6</type>
</prefix-group>
</prefix-groups>
```

Command Syntax

```
ipv6 prefix-group WORD
```

Configure description

Use this attribute to set a description to the prefix-group.

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
<prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
<prefix-group>
   <name>WORD</name>
```

```
      <config>
         <name>WORD</name>
         <type>ip</type>
      </config>
      <type>ip</type>
      <description>LINE</description> <!-- operation="delete"-->
   </prefix-group>
   </prefix-groups>
```

Command Syntax

```
description LINE
```

Configure ipv4 entry

Use this attribute to set the IPv4 prefix value.

Attribute Name: ipv4-entry

Attribute Type: string

Netconf edit-config payload

```
   <prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
   <prefix-group>
      <name>WORD</name>
      <config>
         <name>WORD</name>
         <type>ip</type>
      </config>
      <type>ip</type>
   <ipv4-entries>
   <config>
         <ipv4-entry>A.B.C.D/M</ipv4-entry> <!-- operation="delete"-->
   </config>
   </ipv4-entries>
   </prefix-group>
   </prefix-groups>
```

Command Syntax

```
A.B.C.D/M
```

Configure ipv4 match xpath entry

Use this attribute to dynamically set an IPv4 prefix value using XPath

Attribute Name: ipv4-match-xpath-entry

Attribute Type: string

Netconf edit-config payload

```
   <prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
   <prefix-group>
      <name>WORD</name>
```

```
       <config>
          <name>WORD</name>
          <type>ip</type>
       </config>
       <type>ip</type>
    <ipv4-entries>
    <config>
          <ipv4-match-xpath-entry>WORD</ipv4-match-xpath-entry> <!--
operation="delete"-->
    </config>
    </ipv4-entries>
    </prefix-group>
    </prefix-groups>
```

Command Syntax

```
 match-xpath WORD
```

Configure ipv6 entry

Use this attribute to set the IPv6 prefix value.

This command is supported when following feature are enabled IPv6 feature

Attribute Name: ipv6-entry

Attribute Type: string

Netconf edit-config payload

```
    <prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
    <prefix-group>
       <name>WORD</name>
       <config>
          <name>WORD</name>
          <type>ip</type>
       </config>
       <type>ip</type>
    <ipv6-entries>
    <config>
          <ipv6-entry>X:X::X:X/M</ipv6-entry> <!-- operation="delete"-->
    </config>
    </ipv6-entries>
    </prefix-group>
    </prefix-groups>
```

Command Syntax

```
 X:X::X:X/M
```

Configure ipv6 match xpath entry

Use this attribute to dynamically set an IPv6 prefix value using XPath

This command is supported when following feature are enabled IPv6 feature

Attribute Name: ipv6-match-xpath-entry

Attribute Type: string

Netconf edit-config payload

```
   <prefix-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-group">
   <prefix-group>
      <name>WORD</name>
      <config>
         <name>WORD</name>
         <type>ip</type>
      </config>
      <type>ip</type>
   <ipv6-entries>
   <config>
         <ipv6-match-xpath-entry>WORD</ipv6-match-xpath-entry> <!--
operation="delete"-->
   </config>
   </ipv6-entries>
   </prefix-group>
   </prefix-groups>
```

Command Syntax

```
    match-xpath WORD
```

IPI-ISIS

Configure vrf name

VRF Name to associate with this instance

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <vrf-name>WORD</vrf-name>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    router isis WORD WORD
```

Configure instance

Use this attribute to initiate an ISIS routing instance.Configure at least one NET to start routing.

Attribute Name: instance

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance> <!-- operation="delete"-->
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
      <vrf-name>WORD</vrf-name>
   </config>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 router isis WORD
```

Configure enable cspf capability

Use this attribute to enable the constrained shortest path first (CSPF) feature in the ISIS module. CSPF calculates optimum explicit route (ER), using Traffic Engineering Database and (TED) and pre-existing Label Switched Path (LSP). The resulting ER is used by a signaling protocol (RSVP-TE) to set up LSPs.

Attribute Name: enable-cspf-capability

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-cspf-capability><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 enable-cspf
```

Configure disable gr capability

Use this attribute to enable the GR

Attribute Name: disable-gr-capability

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </disable-gr-capability><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no capability restart graceful
```

Configure isis-instance disable-gr-capability

Use this attribute to enable the GR

Attribute Name: disable-gr-capability

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </disable-gr-capability><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no capability restart
```

Configure disable adjacency check

Use this attribute to configure the policy of adjacency based on the protocol related TLVs in the ISIS Hello packet. ISIS checks adjacency with protocol related TLVs including Protocols Supported TLV or IP Interface Address TLV by default. The command with no parameter disables this check.

Attribute Name: disable-adjacency-check

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </disable-adjacency-check><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 no adjacency-check
```

Configure enable backup srlg disjoint path

Use this attribute to enable/disable default algorithm’s SRLG-disjoint backup path calculation

Attribute Name: enable-backup-srlg-disjoint-path

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-backup-srlg-disjoint-path><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 capability backup srlg-disjoint path
```

Configure enable backup srlg disjoint forced

Use this attribute to enable/disable default algorithm’s forced SRLG-disjoint backup path calculation

Attribute Name: enable-backup-srlg-disjoint-forced

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-backup-srlg-disjoint-forced><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
capability backup srlg-disjoint forced
```

Configure disable asla usage flex algo

Use this attribute to configure the policy of ASLA Link attributes usage in ASLA Sub-TLV (RFC-8919) for Flexible Algorithm. ISIS uses ASLA Link attributes by default, i.e. does not use legacy link attributes. The command with no keyword disables Flex-Algo ASLA usage, i.e. enables advertisement of legacy bit in ASLA. Command without no keyword enables ASLA Flex-Algo advertisement, i.e. disables legacy bit in ASLA sub-tlv.

Attribute Name: disable-asla-usage-flex-algo

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </disable-asla-usage-flex-algo><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no asla flex-algo advertise
```

Configure enable asla strict flex algo

Use this attribute to configure the policy of strict ASLA Link attributes usage for Flexible Algorithm path calculations. ISIS uses ASLA Link attributes by default, may also use legacy TE Link attributes. The command with no keyword disables this usage.

Attribute Name: enable-asla-strict-flex-algo

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-asla-strict-flex-algo><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 asla flex-algo strict
```

Configure enable asla usage all apps

Use this attribute to configure the policy of ASLA Link attributes usage for all applications for path calculations. ISIS does not use ASLA Link attributes for all applications by default. The command with no keyword disables this usage.

Attribute Name: enable-asla-usage-all-apps

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-asla-usage-all-apps><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 asla all-apps advertise
```

Configure enable flex algo routing

Use this attribute to enable/disable routing of Flexible Algorithm in LSP TX/RX and CSPF path calculations

Attribute Name: enable-flex-algo-routing

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-flex-algo-routing><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 capability flex-algo routing
```

Configure enable flex algo readvertise

Use this attribute to enable/disable readvertisement of Flexible Algorithm (FAD) from ISIS Level-2 to Level-1 routing area

Attribute Name: enable-flex-algo-readvertise

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-flex-algo-readvertise><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 capability flex-algo readvertise
```

Configure disable flex algo cspf

Use this attribute to enable/disable CPSF constrained routing of Flexible Algorithm in SPF path calculations

Attribute Name: disable-flex-algo-cspf

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </disable-flex-algo-cspf><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no capability flex-algo cspf
```

Configure enable flex algo adjacency sid

Use this attribute to enable/disable Flexible Algorithm specific Adjacency-SID support

Attribute Name: enable-flex-algo-adjacency-sid

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-flex-algo-adjacency-sid><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo adjacency-sid
```

Configure enable flex algo strict adjacency sid

Use this attribute to enable/disable Flexible Algorithm specific strict Adjacency-SID support

Attribute Name: enable-flex-algo-strict-adjacency-sid

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-flex-algo-strict-adjacency-sid><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 capability flex-algo strict adjacency-sid
```

Configure enable flex algo backup adjacency sid

Use this attribute to enable/disable Flexible Algorithm specific backup Adjacency-SID support

Attribute Name: enable-flex-algo-backup-adjacency-sid

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-flex-algo-backup-adjacency-sid><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 capability flex-algo backup adjacency-sid
```

Configure enable flex algo qos policy

Use this attribute to enable/disable Flexible Algorithm specific QoS policy support

Attribute Name: enable-flex-algo-qos-policy

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
```

```
    <instance>WORD</instance>
    <config>
       <instance>WORD</instance>
    </config>
    </enable-flex-algo-qos-policy><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo qos-policy
```

Configure enable flex algo bgp ls

Use this attribute to enable/disable advertisement of Flexible Algorithm TLV(s)/Sub-TLV(s) in BGP Link-state packets

Attribute Name: enable-flex-algo-bgp-ls

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
       <instance>WORD</instance>
    </config>
    </enable-flex-algo-bgp-ls><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
capability flex-algo bgp-ls
```

Configure authentication send only

Use this attribute to set the send-only option at the instance level.Use this command before configuring the authentication mode and authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this command, enable the authentication mode and key chain on each router.

Attribute Name: authentication-send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
```

```
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <authentication-send-only>3</authentication-send-only> <!-- operation="delete"--
>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    authentication send-only level-1
```

Configure isis-instance authentication-send-only

Use this attribute to set the send-only option at the instance level.Use this command before configuring the authentication mode and authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this command, enable the authentication mode and key chain on each router.

Attribute Name: authentication-send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <authentication-send-only>3</authentication-send-only> <!-- operation="delete"--
>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    authentication send-only level-2
```

Configure distribute bgp ls

Use this attribute to distribute linkstate and TE Database to BGP

Attribute Name: distribute-bgp-ls

Attribute Type: union

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   <distribute-bgp-ls>0</distribute-bgp-ls> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
distribute bgp-ls
```

Configure isis-instance distribute-bgp-ls

Use this attribute to distribute linkstate and TE Database to BGP

Attribute Name: distribute-bgp-ls

Attribute Type: union

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   <distribute-bgp-ls>5</distribute-bgp-ls> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
distribute bgp-ls throttle <5-20>
```

Configure distance

Use this attribute to set the administrative distance for all IPv4 routes.

Attribute Name: distance

Attribute Type: uint8

Default Value: 115

Attribute Range: 1-255

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <distance>1</distance> <!-- operation="delete"-->
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    distance <1-255>
```

Configure dynamic host name

Use this attribute to configure the hostname to be advertised for an ISIS instance using the dynamic hostname exchange mechanism (RFC 2763) and system-ID-to-hostname translation.This command configures a hostname to be used for the Dynamic Hostname Exchange Mechanism and System-ID tohostname translation. Use the routing area tag as the hostname, not the router.s global hostname

Attribute Name: dynamic-host-name

Attribute Type: enum (dynamic-hostname|area-tag)

Default Value: dynamic-hostname

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <dynamic-host-name>dynamic-hostname</dynamic-host-name> <!-- operation="delete"-
->
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    dynamic-hostname (area-tag|)
```

Configure ignore lsp errors

Use this attribute to ignore LSPs with checksum errors. By default, ISIS validates checksum for LSP whenever it receives LSPs and if the checksum has an error, the LSP will be dropped. Configuring this command to ignore the LSP checksum error and treat it as if checksum is passed.

Attribute Name: ignore-lsp-errors

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </ignore-lsp-errors><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
ignore-lsp-errors
```

Configure lfa hold timer

LFA terminate-hold-on interval

Attribute Name: lfa-hold-timer

Attribute Type: int32

Default Value: 1000

Attribute Range: 100-100000

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   <lfa-hold-timer>100</lfa-hold-timer> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
fast-reroute terminate-hold-on interval <100-100000>
```

Configure level capability

Use this attribute to set the IS to the specified level of routing.Changing is-type brings down, then brings up a particular level of routing. There is a limitation: Only one ISIS instance can run Level-2 routing (either Level-2 only IS, or Level-1-2 IS)

Attribute Name: level-capability

Attribute Type: enum (level-1|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   <level-capability>level-1-2</level-capability> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 is-type (level-1|level-2-only|level-1-2)
```

Configure isis-instance authentication-send-only

Use this attribute to set the send-only option at the instance level.Use this command before configuring the authentication mode and authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this command, enable the authentication mode and key chain on each router.

Attribute Name: authentication-send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   <authentication-send-only>level-1-2</authentication-send-only> <!--
operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 authentication send-only (level-1-only|level-2-only|level-1-2|)
```

Configure incremental spf levels

Use this attribute to enable incremental SPF for a routing process

Attribute Name: incremental-spf-levels

Attribute Type: enum (level-1|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <incremental-spf-levels>level-1-2</incremental-spf-levels> <!--
operation="delete"-->
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    ispf (level-1|level-2-only|level-1-2|)
```

Configure priority tag

Use this attribute to set a high priority tag value

Attribute Name: priority-tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <priority-tag>1</priority-tag> <!-- operation="delete"-->
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    ip route high-priority tag <1-4294967295>
```

Configure isis-instance enable-cspf-capability

Use this attribute to enable the constrained shortest path first (CSPF) feature in the ISIS module. CSPF calculates optimum explicit route (ER), using Traffic Engineering Database and (TED) and pre-existing Label Switched Path (LSP). The resulting ER is used by a signaling protocol (RSVP-TE) to set up LSPs.

Attribute Name: enable-cspf-capability

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-cspf-capability><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 capability cspf
```

Configure enable bfd all interfaces

Use this attribute to enable the Bidirectional Forwarding Detection (BFD) feature on the interfaces enabled with this ISIS instance. This command sets BFD fall-over check for all the neighbors under specified process.

Attribute Name: enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   </enable-bfd-all-interfaces><!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 bfd all-interfaces
```

Configure maximum area addresses

Use this attribute to set the maximum number of ISIS areas that can be configured on this router with the net command. By default, ISIS permits a maximum of three areas that can be defined on a router.

Attribute Name: maximum-area-addresses

Attribute Type: uint8

Default Value: 3

Attribute Range: 3-254

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   <maximum-area-addresses>3</maximum-area-addresses> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
max-area-address <3-254>
```

Configure context name

Use this attribute to set the SNMP context name for ISIS instance.

Attribute Name: context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
   <context-name>WORD</context-name> <!-- operation="delete"-->
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
snmp context-name WORD
```

Configure area password

Use this attribute to set the authentication password for the Level-1 area and to set authentication on Level-1 SNP PDUs. This command enables authentication when receiving and sending LSP and SNP PDU in Level-1 areas. Area password must be the same for all the ISIS routers in the same area

Attribute Name: area-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<area-authentication>
<config>
      <area-password>WORD</area-password>
</config>
</area-authentication>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 area-password WORD
```

Configure sequence number packet

Use this attribute to set the authentication password for the Level-1 area and to set authentication on Level-1 SNP PDUs. This command enables authentication when receiving and sending LSP and SNP PDU in Level-1 areas. Area password must be the same for all the ISIS routers in the same area

Attribute Name: sequence-number-packet

Attribute Type: enum (send-only|validate)

Attribute Name: area-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<area-authentication>
<config>
```

```
          <area-password>WORD</area-password> <!-- operation="delete"-->
          <sequence-number-packet>send-only</sequence-number-packet> <!--
operation="delete"-->
    </config>
    </area-authentication>
    </isis-instance>
    </isis-instances>
    </isis>
```

Command Syntax

```
    area-password WORD authenticate snp (send-only|validate)
```

Configure net

Use this attribute to add a Network Entity Title (NET) for the instance.On a router running ISIS, a NET can be 8 to 20 bytes in length. The last byte is always the n-selector, and must be zero. The n-selector indicates no transport entity, and means that the packet is for the routing software of the system. The six bytes directly preceding the n-selector are the system ID. The system ID length is a fixed size and cannot be changed. The system ID must be unique throughout each area (Level 1) and throughout the backbone (Level 2). The bytes preceding the system ID are the area ID, which can be from 1 - 13 bytes in length. By default, a maximum of three NETs per router are allowed with a different area ID but the system ID should be the same for all NETs. You can increase the number of area IDs per system ID with the max-area-address command.

Attribute Name: net

Attribute Type: string

Netconf edit-config payload

```
    <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
    <isis-instances>
    <isis-instance>
       <instance>WORD</instance>
       <config>
          <instance>WORD</instance>
       </config>
    <network-entity-title>
    <config>
          <net>NET</net> <!-- operation="delete"-->
    </config>
    </network-entity-title>
    </isis-instance>
    </isis-instances>
    </isis>
```

Command Syntax

```
    net NET
```

Configure domain password

Use this attribute to set the authentication password for the Level-2 domain, and optionally, the authentication password on Level-2 SNP PDUs.Configuring this command to enable authentication when receiving and sending LSP and SNP PDU in Level-2 domain. Domain password must be the same in Level-2 domain.

Attribute Name: domain-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<domain-authentication>
<config>
       <domain-password>WORD</domain-password>
</config>
</domain-authentication>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 domain password WORD
```

Configure domain snp

Use this attribute to set the authentication password for the Level-2 domain, and optionally, the authentication password on Level-2 SNP PDUs.Configuring this command to enable authentication when receiving and sending LSP and SNP PDU in Level-2 domain. Domain password must be the same in Level-2 domain.

Attribute Name: domain-snp

Attribute Type: enum (send-only|validate)

Attribute Name: domain-password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<domain-authentication>
<config>
       <domain-password>WORD</domain-password> <!-- operation="delete"-->
       <domain-snp>send-only</domain-snp> <!-- operation="delete"-->
</config>
</domain-authentication>
</isis-instance>
```

```
</isis-instances>
</isis>
```

Command Syntax

```
domain password WORD authenticate snp (send-only|validate)
```

Configure style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<metric>
<config>
      <level-number>level-1-2</level-number> <!-- operation="delete"-->
      <style>1</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-style (narrow) level-1-2
```

Configure level number

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<metric>
<config>
       <level-number>level-1-2</level-number> <!-- operation="delete"-->
       <style>2</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-style (wide) level-1-2
```

Configure metric style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<metric>
<config>
       <level-number>level-1-2</level-number> <!-- operation="delete"-->
       <style>3</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-style (transition) level-1-2
```

Configure metric style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<metric>
<config>
      <level-number>level-1-2</level-number> <!-- operation="delete"-->
      <style>4</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-style (narrow transition) level-1-2
```

Configure metric style

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
```

```
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<metric>
<config>
       <level-number>level-1-2</level-number> <!-- operation="delete"-->
       <style>5</style> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-style (wide transition) level-1-2
```

Configure metric level-number

Use this attribute to configure the ISIS metric style

This command is supported when following feature are enabled wide metric feature

Attribute Name: level-number

Attribute Type: enum (level-1|level-2|level-1-2)

Attribute Name: style

Attribute Type: enum (narrow|wide|transition|narrow transition|wide transition)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<metric>
<config>
       <style>narrow</style> <!-- operation="delete"-->
       <level-number>level-1-2</level-number> <!-- operation="delete"-->
</config>
</metric>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-style (narrow|wide|transition|narrow transition|wide transition) (level-
  1|level-2|)
```

Configure lsp refresh interval

Use this attribute to set the LSP refresh interval.IP Infusion Inc. recommends making the lsp-refresh-interval smaller than max-lsp-lifetime value.

Attribute Name: lsp-refresh-interval

Attribute Type: uint16

Default Value: 900

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<timers>
<config>
      <lsp-refresh-interval>1</lsp-refresh-interval> <!-- operation="delete"-->
</config>
</timers>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 lsp-refresh-interval <1-65535>
```

Configure lsp lifetime interval

Use this attribute to set the maximum LSP lifetime. You must set max-lsp-lifetime greater than lsp-refreshinterval.

Attribute Name: lsp-lifetime-interval

Attribute Type: uint16

Default Value: 1200

Attribute Range: 350-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<timers>
<config>
```

```
       <lsp-lifetime-interval>350</lsp-lifetime-interval> <!-- operation="delete"-->
</config>
</timers>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
max-lsp-lifetime <350-65535>
```

Configure ipv4 router id

Use this attribute to configure the traffic engineering stable IP address for a system.

Attribute Name: ipv4-router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<traffic-engineering>
<config>
       <ipv4-router-id>A.B.C.D</ipv4-router-id> <!-- operation="delete"-->
</config>
</traffic-engineering>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
mpls traffic-eng router-id A.B.C.D
```

Configure ipv6 router id

Use this attribute to configure the traffic engineering stable IPv6 address for a system.

Attribute Name: ipv6-router-id

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
```

```
        <instance>WORD</instance>
     </config>
<traffic-engineering>
<config>
       <ipv6-router-id>X:X::X:X</ipv6-router-id> <!-- operation="delete"-->
</config>
</traffic-engineering>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
mpls traffic-eng ipv6 router-id X:X::X:X
```

Configure enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<level-1-into-2-redistributes>
<redistribute-level-1-into-2> <!-- operation="delete"-->
   </enable>
   <config>
      </enable>
   </config>
</redistribute-level-1-into-2>
</level-1-into-2-redistributes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-1 into level-2
```

Configure level 1 acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-1-acl

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<level-1-into-2-redistributes>
<redistribute-level-1-into-2>
   </enable>
   <config>
      </enable><!-- operation="delete"-->
   </config>
      <level-1-acl>WORD</level-1-acl> <!-- operation="delete"-->
</redistribute-level-1-into-2>
</level-1-into-2-redistributes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 redistribute isis level-1 into level-2 distribute-list WORD
```

Configure level-2-into-1-redistributes enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
```

```
<address-family-ipv6>
<level-2-into-1-redistributes>
<redistribute-level-2-into-1> <!-- operation="delete"-->
   </enable>
   <config>
      </enable>
   </config>
</redistribute-level-2-into-1>
</level-2-into-1-redistributes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-2 into level-1
```

Configure level 2 acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-2-acl

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<level-2-into-1-redistributes>
<redistribute-level-2-into-1>
   </enable>
   <config>
      </enable><!-- operation="delete"-->
   </config>
      <level-2-acl>WORD</level-2-acl> <!-- operation="delete"-->
</redistribute-level-2-into-1>
</level-2-into-1-redistributes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-2 into level-1 distribute-list WORD
```

Configure originate

Use this attribute to set originate reachability information to Default destination into LSP.There is no default information in Level-2 domain by default, while Level-1 router calculates default to L1L2 route during SPF calculation. This command enables to originate default route into Level-2 domain.

Attribute Name: originate

Attribute Type: enum (originate|originate level-1|originate always)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<default-route-informations>
<default-route-information> <!-- operation="delete"-->
   <originate>originate</originate>
   <config>
      <originate>originate</originate>
   </config>
</default-route-information>
</default-route-informations>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 default-information (originate|originate level-1|originate always)
```

Configure route map name

Route-map Name

Attribute Name: route-map-name

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
```

```
<address-family-ipv6>
<default-route-informations>
<default-route-information>
   <originate>originate</originate>
   <config>
      <originate>originate</originate>
   </config>
      <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
</default-route-information>
</default-route-informations>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
default-information (originate|originate level-1|originate always) route-map WORD
```

Configure afi name

Use this attribute to configure IPv6 routing specific configuration

Attribute Name: afi-name

Attribute Type: enum (ipv6)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<config>
      <afi-name>1</afi-name>
</config>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
address-family ipv6
```

Configure address-family-ipv6 afi-name

Use this attribute to configure IPv6 routing specific configuration

Attribute Name: afi-name

Attribute Type: enum (ipv6)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<config>
      <afi-name>1</afi-name>
</config>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
address-family ipv6 unicast
```

Configure address-family-ipv6 disable-adjacency-check

Use this attribute to configure the policy of adjacency based on the protocol related TLVs in the ISIS Hello packet. ISIS checks adjacency with protocol related TLVs including Protocols Supported TLV or IP Interface Address TLV by default. The command with no parameter disables this check.

Attribute Name: disable-adjacency-check

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<config>
      </disable-adjacency-check><!-- operation="delete"-->
</config>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
no adjacency-check
```

Configure administrative distance

Use this attribute to set the administrative distance for all IPv6 routes

Attribute Name: administrative-distance

Attribute Type: uint32

Default Value: 115

Attribute Range: 1-255

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <address-family-ipv6>
   <config>
         <administrative-distance>1</administrative-distance> <!-- operation="delete"-
->
   </config>
   </address-family-ipv6>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    distance <1-255>
```

Configure ipv6 metric value

Use this attributes to redistribute routes from another protocol into the ISIS routing table. With metric, metric-type, level and route-map options.

Attribute Name: ipv6-metric-value

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777215

Attribute Name: ipv6-metric-type

Attribute Type: enum (internal|external)

Default Value: internal

Attribute Name: ipv6-level

Attribute Type: enum (level-1|level-2|level-1-2)

Default Value: level-2

Attribute Name: ipv6-route-map

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<redistributions>
<redistribute>
   <ipv6-protocol-type>connected</ipv6-protocol-type>
   <config>
      <ipv6-protocol-type>connected</ipv6-protocol-type>
      <ipv6-metric-type>internal</ipv6-metric-type>
      <ipv6-level>level-2</ipv6-level>
      <ipv6-route-map>WORD</ipv6-route-map>
   </config>
      <ipv6-metric-value>0</ipv6-metric-value>
</redistribute>
</redistributions>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|bgp) ({ metric-type (internal|external)|
  level-1|level-2|level-1-2| route-map WORD| metric <0-16777215> }|)
```

Configure prefix

Use this attribute to configure the summary prefix to summarize IPv6 reachability information.

Attribute Name: prefix

Attribute Type: string

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
```

```
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<summary-prefixes>
<summary-prefix> <!-- operation="delete"-->
   <prefix>X:X::X:X/M</prefix>
   <config>
      <prefix>X:X::X:X/M</prefix>
      <level>level-1</level>
      <metric>1</metric>
   </config>
</summary-prefix>
</summary-prefixes>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
summary-prefix X:X::X:X/M (level-1|level-2|level-1-2) (metric <1-63>|)
```

Configure level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<multi-topologies>
<multi-topology>
   <level>level-1-2</level>
   <config>
      <level>level-1-2</level>
   </config>
</multi-topology>
</multi-topologies>
</address-family-ipv6>
```

```
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
multi-topology (level-1)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<multi-topologies>
<multi-topology>
   <level>level-1-2</level>
   <config>
      <level>level-1-2</level>
   </config>
</multi-topology>
</multi-topologies>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
multi-topology (level-2)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<multi-topologies>
<multi-topology>
   <level>level-1-2</level>
   <config>
      <level>level-1-2</level>
   </config>
</multi-topology>
</multi-topologies>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 multi-topology (level-1-2)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<multi-topologies>
<multi-topology>
   <level>level-1-2</level>
   <config>
      <level>level-1-2</level>
   </config>
</multi-topology>
```

```
</multi-topologies>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
multi-topology (level-1 transition)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<multi-topologies>
<multi-topology>
   <level>level-1-2</level>
   <config>
      <level>level-1-2</level>
   </config>
</multi-topology>
</multi-topologies>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
multi-topology (level-1-2 transition)
```

Configure multi-topologies level

Use this attribute to configure the ISIS Multi-topology

This command is supported when following feature are enabled multi-topology feature

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2|level-1 transition|level-1-2 transition|level-2 transition)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<multi-topologies>
<multi-topology>
   <level>level-1-2</level>
   <config>
      <level>level-1-2</level>
   </config>
</multi-topology>
</multi-topologies>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 multi-topology (level-2 transition)
```

Configure isisSRv6enable

enable SRv6 for SR Policies

This command is supported when following feature are enabled SRv6 Feature

Attribute Name: isisSRv6enable

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<isis-srv6>
<config>
      </isisSRv6enable>
</config>
</isis-srv6>
</address-family-ipv6>
</isis-instance>
```

```
</isis-instances>
</isis>
```

Command Syntax

```
segment-routing srv6
```

Configure isisSRv6LocatorName

Locator name

This command is supported when following feature are enabled SRv6 Feature

Attribute Name: isisSRv6LocatorName

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<isis-srv6>
<locator-lists>
<locator-list> <!-- operation="delete"-->
   <isisSRv6LocatorName>WORD</isisSRv6LocatorName>
   <config>
      <isisSRv6LocatorName>WORD</isisSRv6LocatorName>
   </config>
</locator-list>
</locator-lists>
</isis-srv6>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
srv6-locator WORD
```

Configure system id

System ID

This command is supported when following feature are enabled IPV6 feature

Attribute Name: system-id

Attribute Type: string

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv6>
<distances>
<distance>
   <system-id>WORD</system-id>
   <config>
      <system-id>System-ID</system-id>
      <value>1</value> <!-- operation="delete"-->
   </config>
</distance>
</distances>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 distance <1-255> System-ID
```

Configure access list name

Use this attribute to set the administrative distance for specific IPv6 routes.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: access-list-name

Attribute Type: string

Default Value: ""

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
```

```
    </config>
<address-family-ipv6>
<distances>
<distance>
    <system-id>WORD</system-id>
    <config>
        <system-id>System-ID</system-id>
        <value>1</value> <!-- operation="delete"-->
    </config>
        <access-list-name>WORD</access-list-name> <!-- operation="delete"-->
</distance>
</distances>
</address-family-ipv6>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 distance <1-255> System-ID (WORD|)
```

Configure value

System ID

Attribute Name: system-id

Attribute Type: string

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
<distances>
<distance>
    <system-id>WORD</system-id>
    <config>
        <system-id>System-ID</system-id>
        <value>1</value> <!-- operation="delete"-->
    </config>
</distance>
</distances>
</isis-instance>
</isis-instances>
```

```
</isis>
```

Command Syntax

```
 distance <1-255> System-ID
```

Configure distance access-list-name

Use this attribute to set the administrative distance for specific IPv4 routes.

Attribute Name: access-list-name

Attribute Type: string

Default Value: ""

Attribute Name: value

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<distances>
<distance>
   <system-id>WORD</system-id>
   <config>
      <system-id>System-ID</system-id>
      <value>1</value> <!-- operation="delete"-->
   </config>
      <access-list-name>WORD</access-list-name> <!-- operation="delete"-->
</distance>
</distances>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 distance <1-255> System-ID (WORD|)
```

Configure set bit on boot

Overload interval after reboot

Attribute Name: set-bit-on-boot

Attribute Type: union

Attribute Name: enabled

Attribute Type: empty

Attribute Name: suppress-type

Attribute Type: enum (default|external|interlevel|external interlevel)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<lsp-over-load>
<config>
       </enabled><!-- operation="delete"-->
       <suppress-type>default</suppress-type> <!-- operation="delete"-->
       <set-bit-on-boot>default</set-bit-on-boot> <!-- operation="delete"-->
</config>
</lsp-over-load>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
set-overload-bit { suppress (external|interlevel|external interlevel)| on-startup
  (wait-for-bgp|<5-86400>) }
```

Configure enabled

Use this attribute to set the overload-bit in self-LSPs. If the overload-bit is set in LSPs, the router is not used as a transit router during SPF calculation. This configuration causes a router to update its own LSP with the overload bit set and causes the other routers not to use this router as a transit or forwarding router. The router continues to receive LSPs when the overload bit is set. If the on-startup option is specified, the router sets the overload bit only at startup, then clears the bit after the specified interval has elapsed. If the on-startup option is specified using the wait-for-bgp option, the overload bit is setup at startup, then the bit is cleared after the BGP router signals it has finished converging or if the router does not signal it has finished converging in 10 minutes. If there is no BGP process running, the overload bit clears immediately.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<lsp-over-load>
```

```
<config>
       </enabled>
</config>
</lsp-over-load>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
set-overload-bit
```

Configure level-1-into-2-redistributes enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv4>
<level-1-into-2-redistributes>
<redistribute-level-1-into-2> <!-- operation="delete"-->
   </enable>
   <config>
      </enable>
   </config>
</redistribute-level-1-into-2>
</level-1-into-2-redistributes>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-1 into level-2
```

Configure redistribute-level-1-into-2 level-1-acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-1-acl

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv4>
<level-1-into-2-redistributes>
<redistribute-level-1-into-2>
   </enable>
   <config>
      </enable><!-- operation="delete"-->
   </config>
      <level-1-acl>WORD</level-1-acl> <!-- operation="delete"-->
</redistribute-level-1-into-2>
</level-1-into-2-redistributes>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 redistribute isis level-1 into level-2 distribute-list WORD
```

Configure level-2-into-1-redistributes enable

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv4>
<level-2-into-1-redistributes>
<redistribute-level-2-into-1> <!-- operation="delete"-->
   </enable>
   <config>
      </enable>
```

```
    </config>
</redistribute-level-2-into-1>
</level-2-into-1-redistributes>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-2 into level-1
```

Configure redistribute-level-2-into-1 level-2-acl

Use this attribute to redistribute reachability information from one level to the other level. If an distribute-list name is given with this command for an access list that does not exist, the routes are still redistributed.

Attribute Name: level-2-acl

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
<address-family-ipv4>
<level-2-into-1-redistributes>
<redistribute-level-2-into-1>
    </enable>
    <config>
        </enable><!-- operation="delete"-->
    </config>
        <level-2-acl>WORD</level-2-acl> <!-- operation="delete"-->
</redistribute-level-2-into-1>
</level-2-into-1-redistributes>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis level-2 into level-1 distribute-list WORD
```

Configure default-route-informations originate

Use this attribute to originate reachability information to Default destination into LSP.There is no default information in Level-2 domain by default, while Level-1 router calculates default to L1L2 route during SPF calculation. This command enables to originate default route into Level-2 domain.

Attribute Name: originate

Attribute Type: enum (originate|originate level-1|originate always)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv4>
<default-route-informations>
<default-route-information> <!-- operation="delete"-->
   <originate>originate</originate>
   <config>
      <originate>originate</originate>
   </config>
</default-route-information>
</default-route-informations>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 default-information (originate|originate level-1|originate always)
```

Configure default-route-information route-map-name

Route Map Name Attribute

Attribute Name: route-map-name

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv4>
<default-route-informations>
<default-route-information>
   <originate>originate</originate>
   <config>
```

```
        <originate>originate</originate>
      </config>
        <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
  </default-route-information>
  </default-route-informations>
  </address-family-ipv4>
  </isis-instance>
  </isis-instances>
  </isis>
```

Command Syntax

```
default-information (originate|originate level-1|originate always) route-map WORD
```

Configure metric value

IS-IS metric

Attribute Name: metric-value

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777215

Attribute Name: metric-type

Attribute Type: enum (internal|external)

Default Value: internal

Attribute Name: route-map

Attribute Type: string

Default Value: ""

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Default Value: level-2

Netconf edit-config payload

```
  <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
  <isis-instance>
     <instance>WORD</instance>
     <config>
        <instance>WORD</instance>
     </config>
  <address-family-ipv4>
  <redistributions>
  <redistribute>
     <protocol-type>connected</protocol-type>
     <config>
        <protocol-type>connected</protocol-type>
        <metric-type>internal</metric-type>
```

```
        <route-map>WORD</route-map>
        <level>level-2</level>
    </config>
        <metric-value>0</metric-value>
</redistribute>
</redistributions>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute (connected|static|rip|ospf|bgp) ({ metric-type (internal|external)|
  route-map WORD| level-1|level-2|level-1-2| metric <0-16777215> }|)
```

Configure metric

Use this attribute to Summary Address to summarize IPv4 reachability information.

Attribute Name: prefix

Attribute Type: string

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
<address-family-ipv4>
<summary-addresses>
<summary-address> <!-- operation="delete"-->
    <prefix>A.B.C.D/M</prefix>
    <config>
        <prefix>A.B.C.D/M</prefix>
        <level>level-1</level>
        <metric>1</metric>
    </config>
</summary-address>
</summary-addresses>
</address-family-ipv4>
</isis-instance>
```

```
</isis-instances>
</isis>
```

Command Syntax

```
summary-address A.B.C.D/M (level-1|level-2|level-1-2) (metric <1-63>|)
```

Configure id

Instance ID

Attribute Name: id

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv4>
<redistribute-isis-instances>
<redistribute-isis-instance> <!-- operation="delete"-->
   <id>WORD</id>
   <config>
      <id>WORD</id>
   </config>
</redistribute-isis-instance>
</redistribute-isis-instances>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis WORD
```

Configure metric type

IS-IS metric

Attribute Name: metric-value

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-16777215

Attribute Name: metric-type

Attribute Type: enum (internal|external)

Default Value: internal

Attribute Name: route-map

Attribute Type: string

Default Value: ""

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Default Value: level-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<address-family-ipv4>
<redistribute-isis-instances>
<redistribute-isis-instance>
   <id>WORD</id>
   <config>
      <id>WORD</id>
      <metric-type>internal</metric-type>
      <route-map>WORD</route-map>
      <level>level-2</level>
   </config>
      <metric-value>0</metric-value>
</redistribute-isis-instance>
</redistribute-isis-instances>
</address-family-ipv4>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
redistribute isis WORD { metric-type (internal|external)| route-map WORD| level-
  1|level-2|level-1-2| metric <0-16777215> }
```

Configure passive interface all

Use this attribute to set all interfaces as passive.

Attribute Name: passive-interface-all

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
```

```
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<passive-interfaces>
<config>
       </passive-interface-all><!-- operation="delete"-->
</config>
</passive-interfaces>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 passive-interface
```

Configure name

Use this attribute to set interface as passive.

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<passive-interfaces>
<passive-interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
</passive-interface>
</passive-interfaces>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 passive-interface IFNAME
```

Configure disable-passive-interfaces name

Use this attribute to set interface as passive.

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<passive-interfaces>
<disable-passive-interfaces>
<disable-passive-interface> <!-- operation="delete"-->
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
</disable-passive-interface>
</disable-passive-interfaces>
</passive-interfaces>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 passive-interface IFNAME disable
```

Configure protocol

Protocol Address Family

This command is supported when following feature are enabled ISIS SR Feature

Attribute Name: protocol

Attribute Type: enum (ipv4|ipv6)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<microloop-avoidance-segment-routing>
<segment-routing>
   <level-type>level-1</level-type>
   <config>
      <level-type>level-1</level-type>
```

```
    </config>
    <protocols>
    <protocol> <!-- operation="delete"-->
       <protocol>ipv4</protocol>
       <config>
          <protocol>ipv4</protocol>
       </config>
    </protocol>
</protocols>
</segment-routing>
</microloop-avoidance-segment-routing>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
microloop-avoidance segment-routing (level-1|level-2) proto (ipv4|ipv6)
```

Configure fib delay

Fib-delay

This command is supported when following feature are enabled ISIS SR Feature

Attribute Name: fib-delay

Attribute Type: uint32

Default Value: 1500

Attribute Range: 100-300000

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
       <instance>WORD</instance>
    </config>
<microloop-avoidance-segment-routing>
<segment-routing>
    <level-type>level-1</level-type>
    <config>
       <level-type>level-1</level-type>
    </config>
    <protocols>
    <protocol>
       <protocol>ipv4</protocol>
       <config>
          <protocol>ipv4</protocol>
       </config>
          <fib-delay>100</fib-delay> <!-- operation="delete"-->
```

```
    </protocol>
</protocols>
</segment-routing>
</microloop-avoidance-segment-routing>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
microloop-avoidance segment-routing (level-1|level-2) proto (ipv4|ipv6) fib-delay
  <100-300000>
```

Configure hold timer

Time that a router waits to acquire a set of LSPs to process together

Attribute Name: hold-timer

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
<microloop-avoidances>
<microloop-avoidance>
    <level-type>level-1</level-type>
    <config>
        <level-type>level-1</level-type>
    </config>
        <hold-timer>1</hold-timer> <!-- operation="delete"-->
</microloop-avoidance>
</microloop-avoidances>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
microloop-avoidance hold-timer <1-60> (level-1|level-2)
```

Configure max fib

Maximum time required to update a FIB irrespective of the change

Attribute Name: max-fib

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<microloop-avoidances>
<microloop-avoidance>
   <level-type>level-1</level-type>
   <config>
      <level-type>level-1</level-type>
   </config>
      <max-fib>1</max-fib> <!-- operation="delete"-->
</microloop-avoidance>
</microloop-avoidances>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 microloop-avoidance max-fib <1-60> (level-1|level-2)
```

Configure level type

Microloop avoidance

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<microloop-avoidances>
<microloop-avoidance>
   <level-type>level-1</level-type>
   <config>
      <level-type>level-1</level-type>
   </config>
      </enable><!-- operation="delete"-->
</microloop-avoidance>
</microloop-avoidances>
```

```
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
microloop-avoidance (level-1|level-2)
```

Configure enable level 1

Use this attribute to configure MPLS Traffic Engineering feature for ISIS.

Attribute Name: enable-level-1

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<mpls-traffic-engg>
<config>
      </enable-level-1><!-- operation="delete"-->
</config>
</mpls-traffic-engg>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
mpls traffic-eng level-1
```

Configure enable level 2

Use this attribute to configure MPLS Traffic Engineering feature for ISIS.

Attribute Name: enable-level-2

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<mpls-traffic-engg>
```

```
<config>
       </enable-level-2><!-- operation="delete"-->
</config>
</mpls-traffic-engg>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
mpls traffic-eng level-2
```

Configure algo number

Use this attribute to configure Flexible Algorithm specific configuration

Attribute Name: algo-number

Attribute Type: uint8

Attribute Range: 128-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo> <!-- operation="delete"-->
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
flex-algo <128-255>
```

Configure disable advertise definition

Use this attribute to unconfigure the ISIS Flexible Algorithm Advertisement

Attribute Name: disable-advertise-definition

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
      </disable-advertise-definition><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 no advertise
```

Configure disable participate

Use this attribute to unconfigure the ISIS Flexible Algorithm Participation

Attribute Name: disable-participate

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
      </disable-participate><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
```

```
</isis>
```

Command Syntax

```
no participate
```

Configure flexalgo metric-type

ISIS Flexible Algorithm metric type

Attribute Name: metric-type

Attribute Type: enum (igp-metric|link-delay|te-metric)

Default Value: igp-metric

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
      <metric-type>igp-metric</metric-type> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
metric-type (igp-metric|link-delay|te-metric)
```

Configure calculation type

ISIS Flexible Algorithm calculation type

Attribute Name: calculation-type

Attribute Type: enum (spf)

Default Value: spf

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
```

```
    <instance>WORD</instance>
    <config>
       <instance>WORD</instance>
    </config>
<flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
       <algo-number>128</algo-number>
    </config>
       <calculation-type>spf</calculation-type> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 calculation-type (spf)
```

Configure priority

Flexible Algorithm priority Value

Attribute Name: priority

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
       <instance>WORD</instance>
    </config>
<flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
       <algo-number>128</algo-number>
    </config>
       <priority>1</priority> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
priority <1-255>
```

Configure exclude minimum bandwidth

Minimum bandwidth value constraint for flexible algorithm. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: exclude-minimum-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <exclude-minimum-bandwidth>BANDWIDTH</exclude-minimum-bandwidth> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
exclude-minimum-bandwidth BANDWIDTH
```

Configure exclude maximum delay

Use this attribute to specify maximum link delay value constraint for flexible algorithm

Attribute Name: exclude-maximum-delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
```

```
    <config>
       <instance>WORD</instance>
    </config>
<flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
       <algo-number>128</algo-number>
    </config>
       <exclude-maximum-delay>1</exclude-maximum-delay> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
exclude-maximum-delay <1-16777215>
```

Configure enable intf group mode bw calc

Enable interface group mode total bandwidth calculation for ISIS Flexible algorithm

Attribute Name: enable-intf-group-mode-bw-calc

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
       <instance>WORD</instance>
    </config>
<flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
       <algo-number>128</algo-number>
    </config>
       </enable-intf-group-mode-bw-calc><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
intf-group-mode bandwidth
```

Configure reference bandwidth

Reference bandwidth value constraint for flexible algorithm SPF's automatic metric calculation. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: reference-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <reference-bandwidth>BANDWIDTH</reference-bandwidth> <!-- operation="delete"-
->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    reference-bandwidth BANDWIDTH
```

Configure granularity bandwidth

Granularity bandwidth value constraint for flexible algorithm SPF's automatic metric calculation. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: granularity-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
```

```
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <granularity-bandwidth>BANDWIDTH</granularity-bandwidth> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    granularity-bandwidth BANDWIDTH
```

Configure enable fast reroute

Use this attribute to configure the ISIS Flexible Algorithm fast rerouting

Attribute Name: enable-fast-reroute

Attribute Type: empty

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         </enable-fast-reroute><!-- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    fast-reroute
```

Configure enable remote lfa

Use this attribute to configure the ISIS Flexible Algorithm Remote-LFA

Attribute Name: enable-remote-lfa

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
      </enable-remote-lfa><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 remote-lfa
```

Configure enable ti lfa

Use this attribute to configure the ISIS Flexible Algorithm TI-LFA

Attribute Name: enable-ti-lfa

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
      </enable-ti-lfa><!-- operation="delete"-->
</flexalgo>
```

```
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
ti-lfa
```

Configure flexalgo enable-backup-srlg-disjoint-path

Use this attribute to configure the ISIS Flexible Algorithm SRLG-disjoint backup path

Attribute Name: enable-backup-srlg-disjoint-path

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
      </enable-backup-srlg-disjoint-path><!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
backup srlg-disjoint path
```

Configure flexalgo enable-backup-srlg-disjoint-forced

Use this attribute to configure the ISIS Flexible Algorithm forced SRLG-disjoint backup path

Attribute Name: enable-backup-srlg-disjoint-forced

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
```

```
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         </enable-backup-srlg-disjoint-forced><!-- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
backup srlg-disjoint forced
```

Configure enable prefix metric flag

Use this attribute to configure the ISIS Flexible Algorithm prefix-metric flag sub-TLV advertisement

Attribute Name: enable-prefix-metric-flag

Attribute Type: empty

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         </enable-prefix-metric-flag><!-- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
prefix-metric-flag
```

Configure fapm metric

Distance Value

Attribute Name: fapm-metric

Attribute Type: uint8

Default Value: 24

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
      <fapm-metric>1</fapm-metric> <!-- operation="delete"-->
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 fapm-metric <1-255>
```

Configure maximum ecmp paths

Distance Value

Attribute Name: maximum-ecmp-paths

Attribute Type: uint8

Default Value: 8

Attribute Range: 8-64

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
```

```
          <instance>WORD</instance>
       </config>
   <flexalgos>
   <flexalgo>
       <algo-number>128</algo-number>
       <config>
          <algo-number>128</algo-number>
       </config>
          <maximum-ecmp-paths>8</maximum-ecmp-paths> <!-- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    maximum-ecmp-paths <8-64>
```

Configure affinity eag exclude any

Flexible Algoithm Exclude Any Affinity-EAG Name

Attribute Name: affinity-eag-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
       <instance>WORD</instance>
       <config>
          <instance>WORD</instance>
       </config>
   <flexalgos>
   <flexalgo>
       <algo-number>128</algo-number>
       <config>
          <algo-number>128</algo-number>
       </config>
          <affinity-eag-exclude-any>WORD</affinity-eag-exclude-any> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-eag-exclude-any WORD
```

Configure affinity eag include any

Flexible Algoithm Include Any Affinity-EAG Name

Attribute Name: affinity-eag-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-eag-include-any>WORD</affinity-eag-include-any> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-eag-include-any WORD
```

Configure affinity eag include all

Flexible Algoithm Include All Affinity-EAG Name

Attribute Name: affinity-eag-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
```

```
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-eag-include-all>WORD</affinity-eag-include-all> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-eag-include-all WORD
```

Configure affinity eag reverse exclude any

Flexible Algoithm reverse Exclude Any Affinity-EAG Name

Attribute Name: affinity-eag-reverse-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-eag-reverse-exclude-any>WORD</affinity-eag-reverse-exclude-any> <!-
- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-eag-reverse-exclude-any WORD
```

Configure affinity eag reverse include any

Flexible Algoithm reverse Include Any Affinity-EAG Name

Attribute Name: affinity-eag-reverse-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-eag-reverse-include-any>WORD</affinity-eag-reverse-include-any> <!-
- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-eag-reverse-include-any WORD
```

Configure affinity eag reverse include all

Flexible Algoithm reverse Include All Affinity-EAG Name

Attribute Name: affinity-eag-reverse-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
```

```
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-eag-reverse-include-all>WORD</affinity-eag-reverse-include-all> <!-
- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-eag-reverse-include-all WORD
```

Configure affinity ag exclude any

Flexible Algoithm Exclude Any Affinity-AG Name

Attribute Name: affinity-ag-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-ag-exclude-any>WORD</affinity-ag-exclude-any> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-ag-exclude-any WORD
```

Configure affinity ag include any

Flexible Algoithm Include Any Affinity-AG Name

Attribute Name: affinity-ag-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-ag-include-any>WORD</affinity-ag-include-any> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-ag-include-any WORD
```

Configure affinity ag include all

Flexible Algoithm Include All Affinity-AG Name

Attribute Name: affinity-ag-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
```

```
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-ag-include-all>WORD</affinity-ag-include-all> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-ag-include-all WORD
```

Configure affinity ag reverse exclude any

Flexible Algoithm reverse Exclude Any Affinity-AG Name

Attribute Name: affinity-ag-reverse-exclude-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-ag-reverse-exclude-any>WORD</affinity-ag-reverse-exclude-any> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-ag-reverse-exclude-any WORD
```

Configure affinity ag reverse include any

Flexible Algoithm reverse Include Any Affinity-AG Name

Attribute Name: affinity-ag-reverse-include-any

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-ag-reverse-include-any>WORD</affinity-ag-reverse-include-any> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-ag-reverse-include-any WORD
```

Configure affinity ag reverse include all

Flexible Algoithm reverse Include All Affinity-AG Name

Attribute Name: affinity-ag-reverse-include-all

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
```

```
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <affinity-ag-reverse-include-all>WORD</affinity-ag-reverse-include-all> <!--
operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    affinity-ag-reverse-include-all WORD
```

Configure exclude srlg

Flexible Algoithm Exclude Shared Risk Link Groups

Attribute Name: exclude-srlg

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
   <flexalgos>
   <flexalgo>
      <algo-number>128</algo-number>
      <config>
         <algo-number>128</algo-number>
      </config>
         <exclude-srlg>1</exclude-srlg> <!-- operation="delete"-->
   </flexalgo>
   </flexalgos>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    exclude-srlg <1-4294967295>
```

Configure bandwidth threshold

Staircase bandwidth threshold value constraint for flexible algorithm. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: bandwidth-threshold

Attribute Type: string

Attribute Name: threshold-metric

Attribute Type: uint32

Attribute Range: 1-4261412

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
   <flexalgo-bandwidth-thresholds>
   <flexalgo-bandwidth-threshold> <!-- operation="delete"-->
      <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
      <config>
         <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
         <threshold-metric>1</threshold-metric>
      </config>
   </flexalgo-bandwidth-threshold>
</flexalgo-bandwidth-thresholds>
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
bandwidth-threshold BANDWIDTH threshold-metric <1-4261412>
```

Configure threshold metric

Link metric value for the bandwidth threshold

Attribute Name: threshold-metric

Attribute Type: uint32

Attribute Range: 1-4261412

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
      <instance>WORD</instance>
   </config>
<flexalgos>
<flexalgo>
   <algo-number>128</algo-number>
   <config>
      <algo-number>128</algo-number>
   </config>
   <flexalgo-bandwidth-thresholds>
   <flexalgo-bandwidth-threshold>
      <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
      <config>
         <bandwidth-threshold>BANDWIDTH</bandwidth-threshold>
      </config>
         <threshold-metric>1</threshold-metric> <!-- operation="delete"-->
   </flexalgo-bandwidth-threshold>
</flexalgo-bandwidth-thresholds>
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
flex-algo <128-255> bandwidth-threshold BANDWIDTH threshold-metric <1-4261412>
```

Configure flexalgo-microloop-avoidances level-type

IS-IS instance level,(1|2)

Attribute Name: level-type

Attribute Type: enum (level-1|level-2)

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
   <instance>WORD</instance>
   <config>
```

```
        <instance>WORD</instance>
    </config>
<flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
        <algo-number>128</algo-number>
    </config>
    <flexalgo-microloop-avoidances>
    <flexalgo-microloop-avoidance> <!-- operation="delete"-->
        <level-type>level-1</level-type>
        <config>
            <level-type>level-1</level-type>
            </enable>
        </config>
    </flexalgo-microloop-avoidance>
</flexalgo-microloop-avoidances>
</flexalgo>
</flexalgos>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 microloop-avoidance (level-1|level-2)
```

Configure flexalgo-microloop-avoidance enable

Microloop avoidance

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
<isis-instance>
    <instance>WORD</instance>
    <config>
        <instance>WORD</instance>
    </config>
<flexalgos>
<flexalgo>
    <algo-number>128</algo-number>
    <config>
        <algo-number>128</algo-number>
    </config>
    <flexalgo-microloop-avoidances>
    <flexalgo-microloop-avoidance>
        <level-type>level-1</level-type>
```

```
        <config>
           <level-type>level-1</level-type>
        </config>
           </enable><!-- operation="delete"-->
     </flexalgo-microloop-avoidance>
  </flexalgo-microloop-avoidances>
  </flexalgo>
  </flexalgos>
  </isis-instance>
  </isis-instances>
  </isis>
```

Command Syntax

```
microloop-avoidance flex-algo <128-255> (level-1|level-2)
```

Configure options

Debug Configuration Flag

Attribute Name: options

Attribute Type: bits (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<debug>
<config>
   <options>ifsm</options> <!-- operation="delete"-->
</config>
</debug>
</isis>
```

Command Syntax

```
debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-
  updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-
  ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)
```

Configure enable hello

Use this attribute to turn on debugging for ISIS hello.

Attribute Name: enable-hello

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<debug>
<config>
   </enable-hello><!-- operation="delete"-->
</config>
```

```
</debug>
</isis>
```

Command Syntax

```
debug isis hello
```

Configure cspf

Use this attribute to enable CSPF debug logs.

Attribute Name: cspf

Attribute Type: bits (events|hexdump)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<debug>
<config>
   <cspf>events</cspf> <!-- operation="delete"-->
</config>
</debug>
</isis>
```

Command Syntax

```
debug isis cspf (events|hexdump)
```

clear clns is-neighbors System-ID

Attribute Name: system-id

Attribute Type: string

Netconf RPC payload

```
<isis-clear-is-neighbors xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<system-id>System-ID</system-id>
</isis-clear-is-neighbors>
```

Command Syntax

```
clear clns is-neighbors System-ID
```

clear clns neighbors

Netconf RPC payload

```
<isis-clear-clns-neighbors xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis"/>
```

Command Syntax

```
clear clns neighbors
```

clear ip isis (WORD|) route (redistribution|all)

Attribute Name: instance

Attribute Type: string

Attribute Name: ipv4-route

Attribute Type: enum (redistribution|all)

Netconf RPC payload

```
<isis-clear-ip-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<instance>WORD</instance>
<ipv4-route>redistribution</ipv4-route>
</isis-clear-ip-route>
```

Command Syntax

```
clear ip isis (WORD|) route (redistribution|all)
```

clear ipv6 isis (WORD|) route (redistribution|all)

Attribute Name: instance

Attribute Type: string

Attribute Name: ipv6-route

Attribute Type: enum (redistribution|all)

Netconf RPC payload

```
<isis-clear-ipv6-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<instance>WORD</instance>
<ipv6-route>redistribution</ipv6-route>
</isis-clear-ipv6-route>
```

Command Syntax

```
clear ipv6 isis (WORD|) route (redistribution|all)
```

clear isis (WORD|) process

Attribute Name: instance

Attribute Type: string

Netconf RPC payload

```
<isis-process-clear xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<instance>WORD</instance>
</isis-process-clear>
```

Command Syntax

```
clear isis (WORD|) process
```

clear isis counter

Netconf RPC payload

```
      <isis-clear-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
    clear isis counter
```

clear isis te-global counter ((ilm|route-ftn|trunk-ftn|bypass-ftn)|)

Attribute Name: te-global-counter-options

Attribute Type: enum (ilm|route-ftn|trunk-ftn|bypass-ftn)

Netconf RPC payload

```
      <isis-clear-te-global-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis">
      <te-global-counter-options>ilm</te-global-counter-options>
      </isis-clear-te-global-counters>
```

Command Syntax

```
    clear isis te-global counter ((ilm|route-ftn|trunk-ftn|bypass-ftn)|)
```

clear isis adjacency * (vrf VRFNAME|)

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
      <isis-clear-adjacency-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
      <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
      </isis-clear-adjacency-all>
```

Command Syntax

```
    clear isis adjacency * (vrf VRFNAME|)
```

clear isis WORD adjacency * (vrf VRFNAME|)

Attribute Name: tag-name

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
      <isis-process-clear-adjacency-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-isis">
      <tag-name>WORD</tag-name>
      <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
```

```
</isis-process-clear-adjacency-all>
```

Command Syntax

```
clear isis WORD adjacency * (vrf VRFNAME|)
```

clear isis WORD adjacency (IFNAME|) (vrf VRFNAME|)

Attribute Name: tag-name

Attribute Type: string

Attribute Name: tag-if-name

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
<isis-process-clear-adjacency-interface xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-isis">
<tag-name>WORD</tag-name>
<tag-if-name>IFNAME</tag-if-name>
<adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
</isis-process-clear-adjacency-interface>
```

Command Syntax

```
clear isis WORD adjacency (IFNAME|) (vrf VRFNAME|)
```

clear isis adjacency (IFNAME|) (vrf VRFNAME|)

Attribute Name: adjacency-if-name

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
<isis-clear-adjacency-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis">
<adjacency-if-name>IFNAME</adjacency-if-name>
<adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
</isis-clear-adjacency-interface>
```

Command Syntax

```
clear isis adjacency (IFNAME|) (vrf VRFNAME|)
```

clear isis WORD adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)

Attribute Name: tag-name

Attribute Type: string

Attribute Name: tag-system-id

Attribute Type: string

Attribute Name: tag-vrf-name

Attribute Type: string

Netconf RPC payload

```
       <isis-process-clear-adjacency-system-id xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-isis">
       <tag-name>WORD</tag-name>
       <tag-system-id>XXXX.XXXX.XXXX</tag-system-id>
       <tag-vrf-name>VRFNAME</tag-vrf-name>
       </isis-process-clear-adjacency-system-id>
```

Command Syntax

```
    clear isis WORD adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)
```

clear isis adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)

Attribute Name: adjacency-system-id

Attribute Type: string

Attribute Name: adjacency-vrf-name

Attribute Type: string

Netconf RPC payload

```
       <isis-clear-adjacency-system-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis">
       <adjacency-system-id>XXXX.XXXX.XXXX</adjacency-system-id>
       <adjacency-vrf-name>VRFNAME</adjacency-vrf-name>
       </isis-clear-adjacency-system-id>
```

Command Syntax

```
    clear isis adjacency system-id XXXX.XXXX.XXXX (vrf VRFNAME|)
```

snmp restart isis

Netconf RPC payload

```
       <isis-restart-snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
    snmp restart isis
```

debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Netconf RPC payload

```
<isis-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<terminal-debug-options>ifsm</terminal-debug-options>
</isis-terminal-debug-on>
```

Command Syntax

```
debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-
  updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-
  ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)
```

no debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)

Netconf RPC payload

```
<isis-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<terminal-debug-options>ifsm</terminal-debug-options>
</isis-debug-off>
```

Command Syntax

```
no debug isis (ifsm|nfsm|pdu|lsp|spf|events|nsm|checksum|authentication|local-
  updates|protocol-errors|bfd|mpls|rib|sr|lfa|dist-
  ls|tilfa|ofib|asla|flexalgo|micro-loop-avoidance|all)
```

debug isis spf-trace

Netconf RPC payload

```
<isis-terminal-debug-spf-trace-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-isis"/>
```

Command Syntax

```
debug isis spf-trace
```

no debug isis spf-trace

Netconf RPC payload

```
<isis-terminal-debug-spf-trace-off xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-isis"/>
```

Command Syntax

```
no debug isis spf-trace
```

debug isis hello

Netconf RPC payload

```
<isis-debug-hello-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
debug isis hello
```

no debug isis hello

Netconf RPC payload

```
<isis-debug-hello-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
no debug isis hello
```

debug isis hello interface IFNAME

Attribute Name: interface

Attribute Type: string

Netconf RPC payload

```
<isis-debug-interface-hello-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis">
<interface>IFNAME</interface>
</isis-debug-interface-hello-on>
```

Command Syntax

```
debug isis hello interface IFNAME
```

no debug isis hello interface IFNAME

Attribute Name: interface

Attribute Type: string

Netconf RPC payload

```
<isis-debug-interface-hello-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis">
<interface>IFNAME</interface>
</isis-debug-interface-hello-off>
```

Command Syntax

```
no debug isis hello interface IFNAME
```

debug isis hello System-ID

Attribute Name: system-id

Attribute Type: string

Netconf RPC payload

```
       <isis-debug-system-id-hello-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis">
       <system-id>System-ID</system-id>
       </isis-debug-system-id-hello-on>
```

Command Syntax

```
    debug isis hello System-ID
```

no debug isis hello System-ID

Attribute Name: system-id

Attribute Type: string

Netconf RPC payload

```
       <isis-debug-system-id-hello-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
isis">
       <system-id>System-ID</system-id>
       </isis-debug-system-id-hello-off>
```

Command Syntax

```
    no debug isis hello System-ID
```

no debug all isis

Netconf RPC payload

```
       <isis-all-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis"/>
```

Command Syntax

```
    no debug all isis
```

debug isis cspf (events|hexdump)

Attribute Name: cspf-debug

Attribute Type: bits (events|hexdump)

Netconf RPC payload

```
       <isis-debug-cspf-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
       <cspf-debug>events</cspf-debug>
       </isis-debug-cspf-on>
```

Command Syntax

```
debug isis cspf (events|hexdump)
```

no debug isis cspf (events|hexdump)

Attribute Name: cspf-debug

Attribute Type: bits (events|hexdump)

Netconf RPC payload

```
<isis-debug-cspf-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<cspf-debug>events</cspf-debug>
</isis-debug-cspf-off>
```

Command Syntax

```
no debug isis cspf (events|hexdump)
```

IPI-ISIS-LSP

Configure spf max delay

Maximum delay between receiving a change to SPF calculation in milliseconds. The default value is 5000

Attribute Name: spf-max-delay

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <spf-levels>
      <spf-level>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
         <spf-delays>
         <spf-delay> <!-- operation="delete"-->
            <spf-max-delay>0</spf-max-delay>
            <config>
               <spf-max-delay>0</spf-max-delay>
               <spf-min-delay>0</spf-min-delay>
            </config>
```

```
                    <spf-min-delay>0</spf-min-delay>
                </spf-delay>
            </spf-delays>
        </spf-level>
    </spf-levels>
    </isis-instance>
    </isis-instances>
    </isis>
```

Command Syntax

```
    spf-interval-exp ((level-1|level-2)|) <0-2147483647> <0-2147483647>
```

Configure lsp max wait interval

Use this attribute to set minimum interval before regenerating the same LSP. The smaller the interval, the faster the convergence. However, this setting might cause more frequent flooding

Attribute Name: lsp-max-wait-interval

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-120

Netconf edit-config payload

```
    <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
    <isis-instances>
        <isis-instance>
            <instance>WORD</instance>
            <config>
                <instance>WORD</instance>
            </config>
            <levels>
            <level>
                <type>level-1-2</type>
                <config>
                    <type>level-1-2</type>
                </config>
                    <lsp-max-wait-interval>1</lsp-max-wait-interval> <!--
operation="delete"-->
            </level>
        </levels>
    </isis-instance>
    </isis-instances>
    </isis>
```

Command Syntax

```
    lsp-gen-interval ((level-1|level-2)|) <1-120>
```

Configure lsp mtu size

Use this attribute to set minimum interval before regenerating the same LSP

Attribute Name: lsp-mtu-size

Attribute Type: uint16

Default Value: 1492

Attribute Range: 512-4352

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <levels>
      <level>
         <type>level-1-2</type>
         <config>
            <type>level-1-2</type>
         </config>
            <lsp-mtu-size>512</lsp-mtu-size> <!-- operation="delete"-->
      </level>
   </levels>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 lsp-mtu ((level-1|level-2)|) <512-4352>
```

Configure wait timer

Number of seconds to delay in waiting state before on state

Attribute Name: wait-timer

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
```

```
        <levels>
        <level>
           <type>level-1-2</type>
           <config>
              <type>level-1-2</type>
           </config>
              <wait-timer>1</wait-timer> <!-- operation="delete"-->
        </level>
     </levels>
  </isis-instance>
  </isis-instances>
  </isis>
```

Command Syntax

```
isis wait-timer <1-65535> level-1-2
```

Configure restart timer

Use this attribute to restart the ISIS timer

Attribute Name: restart-timer

Attribute Type: uint16

Attribute Range: 5-65535

Netconf edit-config payload

```
  <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
     <isis-instance>
        <instance>WORD</instance>
        <config>
           <instance>WORD</instance>
        </config>
        <levels>
        <level>
           <type>level-1-2</type>
           <config>
              <type>level-1-2</type>
           </config>
              <restart-timer>5</restart-timer> <!-- operation="delete"-->
        </level>
     </levels>
  </isis-instance>
  </isis-instances>
  </isis>
```

Command Syntax

```
restart-timer <5-65535> level-1-2
```

Configure instance

Number of seconds to delay in waiting state before on state

Attribute Name: wait-timer

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <levels>
      <level>
         <type>level-1-2</type>
         <config>
            <type>level-1-2</type>
         </config>
            <wait-timer>1</wait-timer> <!-- operation="delete"-->
      </level>
   </levels>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 isis wait-timer <1-65535> (level-1|level-2|)
```

Configure type

Use this attribute to restart the ISIS timer

Attribute Name: restart-timer

Attribute Type: uint16

Attribute Range: 5-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <levels>
```

```
        <level>
           <type>level-1-2</type>
           <config>
              <type>level-1-2</type>
           </config>
              <restart-timer>5</restart-timer> <!-- operation="delete"-->
        </level>
     </levels>
  </isis-instance>
  </isis-instances>
  </isis>
```

Command Syntax

```
restart-timer <5-65535> (level-1|level-2|)
```

Configure mode

Use this attribute to set the authentication mode at the instance level.

Attribute Name: mode

Attribute Type: enum (md5|text)

Netconf edit-config payload

```
  <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <isis-instances>
     <isis-instance>
        <instance>WORD</instance>
        <config>
           <instance>WORD</instance>
        </config>
        <levels>
        <level>
           <type>level-1-2</type>
           <config>
              <type>level-1-2</type>
           </config>
           <authentication>
           <config>
                  <mode>md5</mode>
           </config>
        </authentication>
     </level>
  </levels>
  </isis-instance>
  </isis-instances>
  </isis>
```

Command Syntax

```
authentication mode (md5|text) (level-1|level-2|)
```

Configure key chain

Use this attribute to set the key chain to be used for authentication at the instance level. Authentication mode must be set to md5/text to configure the key chain.

Attribute Name: key-chain

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <levels>
      <level>
         <type>level-1-2</type>
         <config>
            <type>level-1-2</type>
         </config>
         <authentication>
         <config>
                <key-chain>WORD</key-chain> <!-- operation="delete"-->
         </config>
      </authentication>
   </level>
</levels>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 authentication key-chain WORD (level-1|level-2|)
```

IPI-ISIS-EXTENDED

Configure remote lfa protocol

Protocol Address Family

Attribute Name: remote-lfa-protocol

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
```

```
       <isis-instance>
          <instance>WORD</instance>
          <config>
             <instance>WORD</instance>
          </config>
          <fast-reroute-levels>
          <fast-reroute>
             <level-type>level-1</level-type>
             <config>
                <level-type>level-1</level-type>
             </config>
                <remote-lfa-protocol>ipv4</remote-lfa-protocol> <!--
operation="delete"-->
          </fast-reroute>
       </fast-reroute-levels>
    </isis-instance>
    </isis-instances>
    </isis>
```

Command Syntax

```
    fast-reroute per-prefix remote-lfa (level-1|level-2) proto (ipv4) tunnel mpls-ldp
```

Configure name

Specific prefixex allowed using this route map

This command is supported when following feature are enabled ISIS feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
    <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
    <isis-instances>
       <isis-instance>
          <instance>WORD</instance>
          <config>
             <instance>WORD</instance>
          </config>
          <fast-reroute-levels>
          <fast-reroute>
             <level-type>level-1</level-type>
             <config>
                <level-type>level-1</level-type>
             </config>
             <route-maps>
             <route-map>
                <protocol>ipv4</protocol>
                <config>
                   <protocol>ipv4</protocol>
                </config>
```

```
                    <name>WORD</name> <!-- operation="delete"-->
               </route-map>
            </route-maps>
         </fast-reroute>
   </fast-reroute-levels>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    fast-reroute per-prefix (level-1|level-2) proto (ipv4) route-map WORD
```

Configure enable all prefixes

Apply on all prefixes

This command is supported when following feature are enabled ISIS feature

Attribute Name: enable-all-prefixes

Attribute Type: enum (all)

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
      <isis-instance>
         <instance>WORD</instance>
         <config>
            <instance>WORD</instance>
         </config>
         <fast-reroute-levels>
         <fast-reroute>
            <level-type>level-1</level-type>
            <config>
               <level-type>level-1</level-type>
            </config>
            <route-maps>
            <route-map>
               <protocol>ipv4</protocol>
               <config>
                  <protocol>ipv4</protocol>
               </config>
                  <enable-all-prefixes>all</enable-all-prefixes> <!--
operation="delete"-->
            </route-map>
         </route-maps>
      </fast-reroute>
   </fast-reroute-levels>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
fast-reroute per-prefix (level-1|level-2) proto (ipv4) (all)
```

Configure protocol

Protocol Address Family

This command is supported when following feature are enabled SR TI-LFA feature

Attribute Name: protocol

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <fast-reroute-levels>
      <fast-reroute>
         <level-type>level-1</level-type>
         <config>
            <level-type>level-1</level-type>
         </config>
         <ti-lfas>
         <ti-lfa> <!-- operation="delete"-->
            <protocol>ipv4</protocol>
            <config>
               <protocol>ipv4</protocol>
            </config>
         </ti-lfa>
      </ti-lfas>
   </fast-reroute>
</fast-reroute-levels>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
fast-reroute ti-lfa (level-1|level-2) proto (ipv4)
```

Configure preference index

this index indicates which tie-break option to be given preference

This command is supported when following feature are enabled ISIS feature

Attribute Name: preference-index

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <fast-reroute-levels>
      <fast-reroute>
         <level-type>level-1</level-type>
         <config>
            <level-type>level-1</level-type>
         </config>
         <protocols>
         <protocol>
            <preference-value>primary-path</preference-value>
            <config>
               <preference-value>primary-path</preference-value>
               <lfa-protocol>ipv4</lfa-protocol>
            </config>
               <lfa-protocol>ipv4</lfa-protocol>
               <preference-index>1</preference-index> <!-- operation="delete"-->
         </protocol>
      </protocols>
   </fast-reroute>
</fast-reroute-levels>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
fast-reroute tie-break (level-1|level-2) proto (ipv4) (primary-path|node-
  protecting|interface-disjoint|broadcast-interface-disjoint|srlg-
  disjoint|broadcast-srlg-disjoint|downstream-path|secondary-path) index <1-255>
```

Configure grace period

The period within which ISIS should come up

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<graceful-restart>
<config>
```

```
        <grace-period>1</grace-period> <!-- operation="delete"-->
    </config>
    </graceful-restart>
    </isis>
```

Command Syntax

```
 isis restart grace-period <1-65535>
```

Configure enable helper only

Attribute to configure helper mode

Attribute Name: enable-helper-only

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<graceful-restart>
<config>
       </enable-helper-only><!-- operation="delete"-->
</config>
</graceful-restart>
</isis>
```

Command Syntax

```
 isis restart helper
```

Configure suppress adjacency

When set to true, adjacency is not advertised. The SA bit is used by a starting router to request that its neighbor suppress advertisement of the adjacency to the starting router in the neighbor's LSPs.

Attribute Name: suppress-adjacency

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<graceful-restart>
<config>
       </suppress-adjacency><!-- operation="delete"-->
</config>
</graceful-restart>
</isis>
```

Command Syntax

```
 isis restart suppress-adjacency
```

restart isis graceful (grace-period <1-65535>|)

Attribute Name: grace-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf RPC payload

```
       <ipi-isis-extended_isis-restart-graceful xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-isis">
       <grace-period>1</grace-period>
       </ipi-isis-extended_isis-restart-graceful>
```

Command Syntax

```
    restart isis graceful (grace-period <1-65535>|)
```

IPI-ISIS-SR

Configure receive disable

Use this attribute to receive label binding TLVs

Attribute Name: receive-disable

Attribute Type: uint8

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <isis-instances>
      <isis-instance>
         <instance>WORD</instance>
         <config>
            <instance>WORD</instance>
         </config>
         <segment-routing>
         <config>
                </receive-disable><!-- operation="delete"-->
         </config>
      </segment-routing>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
    segment-routing prefix-sid-map receive disable
```

Configure enabled

Use this attribute to enable MPLS-based segment routing for an ISIS process

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <segment-routing>
      <config>
             </enabled>
      </config>
   </segment-routing>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
segment-routing mpls
```

Configure advertise local

Use this attribute to advertise prefix-SID mapping

Attribute Name: advertise-local

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <segment-routing>
      <config>
             </advertise-local><!-- operation="delete"-->
      </config>
   </segment-routing>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
segment-routing prefix-sid-map advertise-local
```

Configure global block base

Segment Node Base Value. Default value is 16000

Attribute Name: global-block-base

Attribute Type: int32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
         <instance>WORD</instance>
      </config>
      <segment-routing>
      <global-blocks>
      <global-block> <!-- operation="delete"-->
         <global-block-range>16</global-block-range>
         <config>
            <global-block-range>16</global-block-range>
            <global-block-base>16</global-block-base>
         </config>
            <global-block-base>16</global-block-base>
      </global-block>
   </global-blocks>
</segment-routing>
</isis-instance>
</isis-instances>
</isis>
```

Command Syntax

```
 isis segment-routing global block <16-1048575> <16-1048575>
```

Configure entropy label

Use this attribute to enable segment routing entropy capability.

This command is supported when following feature are enabled sr mpls feature

Attribute Name: entropy-label

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<isis-instances>
   <isis-instance>
      <instance>WORD</instance>
      <config>
```

```
            <instance>WORD</instance>
         </config>
         <segment-routing>
         <sr-capability-entropy>
         <config>
                </entropy-label><!-- operation="delete"-->
         </config>
      </sr-capability-entropy>
   </segment-routing>
   </isis-instance>
   </isis-instances>
   </isis>
```

Command Syntax

```
segment-routing entropy-label
```

IPI-ISIS-INTERFACE

Configure minimal

Use this attribute to set the minimal Hello interval in seconds.

Attribute Name: minimal

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <minimal>3</minimal> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
isis hello-interval minimal level-1
```

Configure name

Use this attribute to set the minimal Hello interval in seconds.

Attribute Name: minimal

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <minimal>3</minimal> <!-- operation="delete"-->
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis hello-interval minimal level-2
```

Configure send only

Use this attribute to set the send-only option to the interface-related packets. Use this attribute before configuring the ISIS authentication mode and ISIS authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this attribute, enable the authentication mode and key chain on each router.

Attribute Name: send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <send-only>3</send-only> <!-- operation="delete"-->
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis authentication send-only level-1
```

Configure interface send-only

Use this attribute to set the send-only option to the interface-related packets. Use this attribute before configuring the ISIS authentication mode and ISIS authentication key-chain, so that the implementation of authentication goes

smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this attribute, enable the authentication mode and key chain on each router.

Attribute Name: send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <send-only>3</send-only> <!-- operation="delete"-->
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis authentication send-only level-2
```

Configure interface minimal

Use this attribute to set the minimal Hello interval in seconds.

Attribute Name: minimal

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <minimal>level-1-2</minimal> <!-- operation="delete"-->
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis hello-interval minimal (level-1-only|level-2-only|)
```

Configure interface send-only

Use this attribute to set the send-only option to the interface-related packets. Use this attribute before configuring the ISIS authentication mode and ISIS authentication key-chain, so that the implementation of authentication goes smoothly. That is, the routers will have more time for the keys to be configured on each router if authentication is inserted only on the packets being sent, not checked on packets being received. After all routers that must communicate are configured with this attribute, enable the authentication mode and key chain on each router.

Attribute Name: send-only

Attribute Type: enum (level-1-only|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <send-only>level-1-2</send-only> <!-- operation="delete"-->
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis authentication send-only (level-1-only|level-2-only|level-1-2|)
```

Configure maximum bandwidth flex algo

Interface ASLA maximum bandwidth value for IGP Flexible Algorithm. The bandwidth input ranges are 1 to 999 Kbps, 1 to 999 Mbps and 1 to 100 Gbps.

Attribute Name: maximum-bandwidth-flex-algo

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <maximum-bandwidth-flex-algo>BANDWIDTH</maximum-bandwidth-flex-algo> <!--
operation="delete"-->
</interface>
</interfaces>
</isis>
```

Command Syntax

```
maximum-bandwidth flex-algo BANDWIDTH
```

Configure disable asla usage flex algo

Use this attribute to disable ASLA Link attributes usage for flexible-algorithm on this Link. The command with no keyword enables the ASLA usage

Attribute Name: disable-asla-usage-flex-algo

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </disable-asla-usage-flex-algo><!-- operation="delete"-->
</interface>
</interfaces>
</isis>
```

Command Syntax

```
disable asla flex-algo
```

Configure disable padding

Use this attribute to configure/unconfigure the padding of the ISIS Hello packet. ISIS pads the Hello packet by default to notify neighbors of the supported MTU size.

Attribute Name: disable-padding

Attribute Type: uint8

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <config>
          </disable-padding><!-- operation="delete"-->
   </config>
</interface-parameters>
</interface>
</interfaces>
```

```
</isis>
```

Command Syntax

```
no isis hello padding
```

Configure network type

Use this attribute to change a broadcast interface network type to a point-to-point network type and vice-versa.

Attribute Name: network-type

Attribute Type: enum (broadcast|point-to-point)

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <config>
         <network-type>broadcast</network-type> <!-- operation="delete"-->
   </config>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis network (broadcast|point-to-point)
```

Configure circuit type

Use this attribute to set the circuit type for the interface. If level-1 or level-2-only is specified in this attribute, ISIS sends only the specified level of PDUs. On the point-to-point interface, there is only one type of Hello packet, so in this case ISIS Hello will be sent regardless of circuit-type. If istype is configured as level-1 or level-2 only, routing for this instance is performed for only the specified level. In this manner, only the particular level of PDU is sent on the interface.

Attribute Name: circuit-type

Attribute Type: enum (level-1|level-2-only|level-1-2)

Default Value: level-1-2

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
```

```
    </config>
    <interface-parameters>
    <config>
           <circuit-type>level-1-2</circuit-type> <!-- operation="delete"-->
    </config>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis circuit-type (level-1|level-2-only|level-1-2)
```

Configure ipv4 instance tag

Use this attribute to enable ISIS IPv4 routing on the interface. This attribute is mandatory to ISIS configuration. Match the ISIS instance tag to one of existing instance.s tags, or a new instance with the tag name should be initiated, otherwise routing will not run on this interface. Configuring this attribute, the router sends ISIS Hello with IP address TLV on this interface, and IP reachability information TLV in the LSP will be updated.

Attribute Name: ipv4-instance-tag

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
       <name>WORD</name>
    </config>
    <interface-parameters>
    <config>
           <ipv4-instance-tag>WORD</ipv4-instance-tag> <!-- operation="delete"-->
    </config>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
ip router isis WORD
```

Configure ipv6 instance tag

Use this attribute to enable ISIS IPv6 routing on the interface. This attribute is mandatory to IPv6 ISIS configuration. Match the ISIS instance tag to one of existing instance.s tags, or a new instance with the tag name should be initiated, otherwise routing will not run on this interface.Configuring this attribute, the router sends ISIS Hello with IPv6 address TLV on this interface, and IPv6 reachability information TLV in the LSP will be updated.

Attribute Name: ipv6-instance-tag

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <config>
         <ipv6-instance-tag>WORD</ipv6-instance-tag> <!-- operation="delete"-->
   </config>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 ipv6 router isis WORD
```

Configure lsp interval

Use this attribute to set the Link State Packet (LSP) transmission interval. Configuring this attribute changes the minimum interval between two consecutive LSP transmission. When flooding or some other event triggers LSP to transmit, the LSP is put on the interface queue and scheduled to transmit according to this interval. Two consecutive LSP transmissions are scheduled to have at least this interval.

Attribute Name: lsp-interval

Attribute Type: uint32

Default Value: 33

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <config>
         <lsp-interval>1</lsp-interval> <!-- operation="delete"-->
   </config>
</interface-parameters>
</interface>
</interfaces>
```

```
</isis>
```

Command Syntax

```
isis lsp-interval <1-4294967295>
```

Configure retransmit interval

Interval between retransmissions of the same LSP in seconds

Attribute Name: retransmit-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <config>
         <retransmit-interval>1</retransmit-interval> <!-- operation="delete"-->
   </config>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis retransmit-interval <1-65535>
```

Configure mesh group id

Use this attribute to specify to block LSPs on the current interface. If an interface is configured as mesh group blocked,. the standard LSP database synchronization process is applied if the interface receives CSNP or PSNP.

Attribute Name: mesh-group-id

Attribute Type: union

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
```

```
      </config>
      <interface-parameters>
      <config>
            <mesh-group-id>blocked</mesh-group-id> <!-- operation="delete"-->
      </config>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis mesh-group (blocked|<1-4294967295>)
```

Configure delay normalize interval

The value of the normalization interval for measured delay

Attribute Name: delay-normalize-interval

Attribute Type: uint32

Attribute Range: 1-2147483

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <config>
            <delay-normalize-interval>1</delay-normalize-interval> <!--
operation="delete"-->
      </config>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    normalize delay isis <1-2147483>
```

Configure delay normalize offset

The value of the normalization interval for measured delay

Attribute Name: delay-normalize-offset

Attribute Type: uint32

Attribute Range: 1-2147483

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <config>
            <delay-normalize-offset>1</delay-normalize-offset> <!--
operation="delete"-->
      </config>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    normalize delay isis <1-2147483>
```

Configure enable

Use this attribute to enable the BFD check on interface.

This command is supported when following feature are enabled

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <bfd>
      <config>
            </enable><!-- operation="delete"-->
      </config>
   </bfd>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis bfd
```

Configure disable

Use this attribute to disable the BFD check on interface.

This command is supported when following feature are enabled

Attribute Name: disable

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <bfd>
   <config>
          </disable><!-- operation="delete"-->
   </config>
</bfd>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis bfd disable
```

Configure disable level 1

Use this attribute to disable frr on an interface for level-1.

Attribute Name: disable-level-1

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <fast-re-route>
   <config>
          </disable-level-1><!-- operation="delete"-->
   </config>
```

```
</fast-re-route>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis fast-reroute per-prefix candidate disable level-1
```

Configure disable level 2

Use this attribute to disable frr on an interface for level-2.

Attribute Name: disable-level-2

Attribute Type: empty

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <fast-re-route>
   <config>
          </disable-level-2><!-- operation="delete"-->
   </config>
</fast-re-route>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis fast-reroute per-prefix candidate disable level-2
```

Configure hello interval

Use this attribute to set the Hello interval in seconds. The Hello-interval is set with the hello-multiplier. Configuring this attribute changes the time interval between two consecutive Hello transmissions. If a device receives its own LSP with a maximum sequence number, then it suspends ISIS for the hold interval. DIS sends Hello transmissions at three times the rate than non-DIS. If ISIS is elected as DIS on this interface, ISIS sends Hello every 3.3 seconds. If minimal keyword is specified, Holding timer in Hello PDU is set to 1 second and Hello interval is calculated by dividing by the hello-multiplier.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
      </config>
         <hello-interval>1</hello-interval> <!-- operation="delete"-->
   </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis hello-interval <1-65535> (level-1|level-2|)
```

Configure hello multiplier

Use this attribute to set multiplier for Hello holding time. Changes Holding Timer in Hello PDU. Holding timer is calculated by .Hello-Interval. multiplied by this value. If minimal keyword is specified with the Hello-Interval, the holding timer is set to 1 second and the hello-interval is calculated by dividing 1 by this value.

Attribute Name: hello-multiplier

Attribute Type: uint8

Default Value: 3

Attribute Range: 2-100

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
```

```
    <level-info>
       <level>level-1-2</level>
       <config>
          <level>level-1-2</level>
       </config>
          <hello-multiplier>2</hello-multiplier> <!-- operation="delete"-->
    </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis hello-multiplier <2-100> (level-1|level-2|)
```

Configure csnp interval

Use this attribute to set CSNP (Complete sequence number PDU) interval in seconds.Configuring this attribute changes the interval between two consecutive CSNP transmission. By default, CSNP is sent every 10 seconds only by LAN DIS. This parameter is only valid on broadcast interface, since periodic CSNP is only sent on broadcast interface, while CSNP on Point-to-Point interface is sent only when adjacency is initiated.

Attribute Name: csnp-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
      </config>
         <csnp-interval>1</csnp-interval> <!-- operation="delete"-->
   </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis csnp-interval <1-65535> (level-1|level-2|)
```

Configure priority

Use this attribute to set the priority for LAN DIS election. This attribute changes the priority value in LAN ISIS Hello PDUs. A lower priority value is less preferred in DIS election, and a higher priority value is more preferred

Attribute Name: priority

Attribute Type: uint8

Default Value: 64

Attribute Range: 0-127

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
      </config>
         <priority>0</priority> <!-- operation="delete"-->
   </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis priority <0-127> (level-1|level-2|)
```

Configure metric

Use this attribute to set default metric for the interface. The interface default metric is put into IP reachability information TLVs, IS reachability information TLVs and IPv6 reachability TLVs in LSPs. The value is used for SPF calculation, and is applied when the metric-style is configured as .narrow.

Attribute Name: metric

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-63

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
      </config>
         <metric>1</metric> <!-- operation="delete"-->
   </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis metric <1-63> (level-1|level-2|)
```

Configure password

Use this attribute to set the authentication password of Hello PDU on the interface.

Attribute Name: password

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
      </config>
```

```
            <password>WORD</password> <!-- operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
isis password WORD (level-1|level-2|)
```

Configure tag

Use this attribute to sets the tag for link-state packets (LSPs) sent out advertising routes for networks directly connected to an interface. If you do not specify a parameter, then the tag value is set for level-1-2 boundary

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <tag>1</tag> <!-- operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
isis tag <1-4294967295> (level-1|level-2|)
```

Configure wide metric

Use this attribute to set wide metric for the interface. Interface wide-metric is put into Extended IP reachability TLVs, Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs. The value is used for SPF calculation. This value is applied when metric-style is configured as 'wide'.

Attribute Name: wide-metric

Attribute Type: uint32

Default Value: 10

Attribute Range: 1-16777214

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
      </config>
         <wide-metric>1</wide-metric> <!-- operation="delete"-->
   </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis wide-metric <1-16777214> (level-1|level-2|)
```

Configure te metric

Use this attribute to set te metric for the interface. Interface te-metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs. The value is used for CSPF calculation

Attribute Name: te-metric

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
```

```
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <te-metric>1</te-metric> <!-- operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis te-metric <1-16777215> (level-1|level-2|)
```

Configure restart hello interval

Use this attribute to configure the T1 timer, interval of ISIS Hello packet with restart TLV.

Attribute Name: restart-hello-interval

Attribute Type: uint16

Default Value: 3

Attribute Range: 1-65535

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <restart-hello-interval>1</restart-hello-interval> <!--
operation="delete"-->
      </level-info>
```

```
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis restart-hello-interval <1-65535> (level-1|level-2|)
```

Configure te metric flex algo ipv4

Interface IPv4 te-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv4 reachability TLVs in LSPs.

Attribute Name: te-metric-flex-algo-ipv4

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <te-metric-flex-algo-ipv4>1</te-metric-flex-algo-ipv4> <!--
operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis te-metric flex-algo ipv4 <1-16777215> (level-1|level-2|)
```

Configure te metric flex algo ipv6

Interface IPv6 te-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs.

Attribute Name: te-metric-flex-algo-ipv6

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <te-metric-flex-algo-ipv6>1</te-metric-flex-algo-ipv6> <!--
operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis te-metric flex-algo ipv6 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric ipv4

Interface IPv4 bandwidth-metric for usage in IGP CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv4 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-ipv4

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
```

```
       <level-infos>
       <level-info>
          <level>level-1-2</level>
          <config>
             <level>level-1-2</level>
          </config>
             <bandwidth-metric-ipv4>1</bandwidth-metric-ipv4> <!-- operation="delete"-
->
       </level-info>
    </level-infos>
    </interface-parameters>
    </interface>
    </interfaces>
    </isis>
```

Command Syntax

```
     isis bandwidth-metric ipv4 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric ipv6

Interface IPv6 bandwidth-metric for usage in CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-ipv6

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
    <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
    <interfaces>
    <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
       <interface-parameters>
       <level-infos>
       <level-info>
          <level>level-1-2</level>
          <config>
             <level>level-1-2</level>
          </config>
             <bandwidth-metric-ipv6>1</bandwidth-metric-ipv6> <!-- operation="delete"-
->
       </level-info>
    </level-infos>
    </interface-parameters>
    </interface>
    </interfaces>
    </isis>
```

Command Syntax

```
isis bandwidth-metric ipv6 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric flex algo ipv4

Interface IPv4 bandwidth-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv4 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-flex-algo-ipv4

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <bandwidth-metric-flex-algo-ipv4>1</bandwidth-metric-flex-algo-ipv4> <!--
operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
isis bandwidth-metric flex-algo ipv4 <1-16777215> (level-1|level-2|)
```

Configure bandwidth metric flex algo ipv6

Interface IPv6 bandwidth-metric for usage in IGP Flexible Algorithm specific CSPF path calculation purposes. This metric is put into Extended IS reachability TLVs and IPv6 reachability TLVs in LSPs.

Attribute Name: bandwidth-metric-flex-algo-ipv6

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <bandwidth-metric-flex-algo-ipv6>1</bandwidth-metric-flex-algo-ipv6> <!--
operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis bandwidth-metric flex-algo ipv6 <1-16777215> (level-1|level-2|)
```

Configure te minimum delay

Interface minimum delay value in microseconds.

Attribute Name: te-minimum-delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
```

```
            <te-minimum-delay>1</te-minimum-delay> <!-- operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
isis te-minimum-delay <1-16777215> (level-1|level-2|)
```

Configure te maximum delay

Interface maximum delay value in microseconds.

Attribute Name: te-maximum-delay

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
      </config>
         <te-maximum-delay>1</te-maximum-delay> <!-- operation="delete"-->
   </level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
isis te-maximum-delay <1-16777215> (level-1|level-2|)
```

Configure te minimum delay flex algo

Interface minimum delay value for IGP Flexible Algorithm in microseconds.

Attribute Name: te-minimum-delay-flex-algo

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <te-minimum-delay-flex-algo>1</te-minimum-delay-flex-algo> <!--
operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis te-minimum-delay flex-algo <1-16777215> (level-1|level-2|)
```

Configure te maximum delay flex algo

Interface maximum delay value for IGP Flexible Algorithm in microseconds.

Attribute Name: te-maximum-delay-flex-algo

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
```

```
          <level>level-1-2</level>
          <config>
             <level>level-1-2</level>
          </config>
             <te-maximum-delay-flex-algo>1</te-maximum-delay-flex-algo> <!--
operation="delete"-->
       </level-info>
    </level-infos>
    </interface-parameters>
    </interface>
    </interfaces>
    </isis>
```

Command Syntax

```
    isis te-maximum-delay flex-algo <1-16777215> (level-1|level-2|)
```

Configure extended admin group flex algo

Use this attribute to assign one or more, extended administrative groups (EAG) for normal delay in the interface for Flexible-Algorithm purposes

Attribute Name: extended-admin-group-flex-algo

Attribute Type: string

Netconf edit-config payload

```
    <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
    <interfaces>
    <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
       <interface-parameters>
       <level-infos>
       <level-info>
          <level>level-1-2</level>
          <config>
             <level>level-1-2</level>
          </config>
             <extended-admin-group-flex-algo>NAME</extended-admin-group-flex-algo> <!-
- operation="delete"-->
       </level-info>
    </level-infos>
    </interface-parameters>
    </interface>
    </interfaces>
    </isis>
```

Command Syntax

```
    isis extended-admin-group flex-algo NAME (level-1|level-2|)
```

Configure extended admin group flex algo anomaly

Use this attribute to assign one or more, extended administrative groups (EAG) for anomalous delay in the interface for Flexible-Algorithm purposes

Attribute Name: extended-admin-group-flex-algo-anomaly

Attribute Type: string

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <extended-admin-group-flex-algo-anomaly>NAME</extended-admin-group-flex-
algo-anomaly> <!-- operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
    isis extended-admin-group flex-algo anomaly NAME (level-1|level-2|)
```

Configure admin group flex algo

Use this attribute to assign one or more, administrative groups (AG) to the interface for Flexible-Algorithm purposes

Attribute Name: admin-group-flex-algo

Attribute Type: string

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
```

```
       <interface-parameters>
       <level-infos>
       <level-info>
          <level>level-1-2</level>
          <config>
             <level>level-1-2</level>
          </config>
             <admin-group-flex-algo>NAME</admin-group-flex-algo> <!--
operation="delete"-->
       </level-info>
    </level-infos>
    </interface-parameters>
    </interface>
    </interfaces>
    </isis>
```

Command Syntax

```
     isis admin-group flex-algo NAME (level-1|level-2|)
```

Configure admin group flex algo anomaly

Use this attribute to assign one or more, administrative groups (AG) for anomalous delay in the interface for Flexible-Algorithm purposes

Attribute Name: admin-group-flex-algo-anomaly

Attribute Type: string

Netconf edit-config payload

```
    <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
    <interfaces>
    <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
       <interface-parameters>
       <level-infos>
       <level-info>
          <level>level-1-2</level>
          <config>
             <level>level-1-2</level>
          </config>
             <admin-group-flex-algo-anomaly>NAME</admin-group-flex-algo-anomaly> <!--
operation="delete"-->
       </level-info>
    </level-infos>
    </interface-parameters>
    </interface>
    </interfaces>
    </isis>
```

Command Syntax

```
isis admin-group flex-algo anomaly NAME (level-1|level-2|)
```

Configure shared risk link group flex algo

Use this attribute to add the link to a flexible-algorithm application specific srlg group

Attribute Name: shared-risk-link-group-flex-algo

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <interface-parameters>
      <level-infos>
      <level-info>
         <level>level-1-2</level>
         <config>
            <level>level-1-2</level>
         </config>
            <shared-risk-link-group-flex-algo>1</shared-risk-link-group-flex-algo>
<!-- operation="delete"-->
      </level-info>
   </level-infos>
   </interface-parameters>
   </interface>
   </interfaces>
   </isis>
```

Command Syntax

```
isis srlg flex-algo <1-4294967295> (level-1|level-2|)
```

Configure mode

Use this attribute to set the MD5 authentication mode.

Attribute Name: mode

Attribute Type: enum (md5|text)

Netconf edit-config payload

```
   <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
   <interfaces>
   <interface>
```

```
    <name>WORD</name>
    <config>
       <name>WORD</name>
    </config>
    <interface-parameters>
    <level-infos>
    <level-info>
       <level>level-1-2</level>
       <config>
          <level>level-1-2</level>
       </config>
       <authentication>
       <config>
             <mode>md5</mode>
       </config>
    </authentication>
</level-info>
</level-infos>
</interface-parameters>
</interface>
</interfaces>
</isis>
```

Command Syntax

```
 isis authentication mode (md5|text) (level-1|level-2|)
```

Configure key chain

Use this attribute to set the key chain to be used for authentication on the interface-related packets.Authentication mode must be set to md5/text to configure the key chain.Only one authentication key-chain is applied to an ISIS interface at a time. Authentication can be specified for an entire instance of ISIS, instead of at the interface level, by setting the authentication key-chain attribute at global level.

Attribute Name: key-chain

Attribute Type: string

Netconf edit-config payload

```
<isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-parameters>
   <level-infos>
   <level-info>
      <level>level-1-2</level>
      <config>
         <level>level-1-2</level>
```

```
        </config>
        <authentication>
        <config>
               <key-chain>WORD</key-chain> <!-- operation="delete"-->
        </config>
     </authentication>
  </level-info>
  </level-infos>
  </interface-parameters>
  </interface>
  </interfaces>
  </isis>
```

Command Syntax

```
isis authentication key-chain WORD (level-1|level-2|)
```

Configure hold timer

It is the max time period for which IGP should advertise the max metric for the interface in case of LDP session down on that interface.

This command is supported when following feature are enabled

Attribute Name: hold-timer

Attribute Type: uint32

Attribute Range: 1-2147483

Attribute Name: level

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
  <isis xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-isis">
  <interfaces>
  <interface>
     <name>WORD</name>
     <config>
        <name>WORD</name>
     </config>
     <igp-ldp-sync>
     <config>
           <level>level-1</level>
           <hold-timer>1</hold-timer>
     </config>
  </igp-ldp-sync>
  </interface>
  </interfaces>
  </isis>
```

Command Syntax

```
mpls ldp-igp sync isis (level-1|level-2|level-1-2) (holddown-timer <1-2147483>|)
```

clear isis interface counter (IFNAME|)

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
       <ipi-isis-interface_isis-clear-interface-counters xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-isis">
       <name>IFNAME</name>
       </ipi-isis-interface_isis-clear-interface-counters>
```

Command Syntax

```
     clear isis interface counter (IFNAME|)
```

IPI-KEYCHAIN

Configure name

key-chain name

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
   <key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
   <key-chain> <!-- operation="delete"-->
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   </key-chain>
   </key-chains>
```

Command Syntax

```
     key chain WORD
```

Configure key id

Use this attribute to manageCOMMA add or delete authentication keys in a key-chain

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
   <key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
   <key-chain>
```

```
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<keys>
<key-list> <!-- operation="delete"-->
    <key-id>0</key-id>
    <config>
        <key-id>0</key-id>
    </config>
</key-list>
</keys>
</key-chain>
</key-chains>
```

Command Syntax

```
key-id <0-2147483647>
```

Configure key string

Use this attribute to define a password to be used by a key

Attribute Name: key-string

Attribute Type: string

Attribute Range: 1-80

Netconf edit-config payload

```
<key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
<key-chain>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<keys>
<key-list>
    <key-id>0</key-id>
    <config>
        <key-id>0</key-id>
    </config>
        <key-string>WORD</key-string> <!-- operation="delete"-->
</key-list>
</keys>
</key-chain>
</key-chains>
```

Command Syntax

```
key-string WORD
```

Configure encrypted

Use this attribute to pass the key string in hexadecimal string format

Attribute Name: encrypted

Attribute Type: string

Attribute Range: 18-218

Netconf edit-config payload

```
<key-chains xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-keychain">
<key-chain>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<keys>
<key-list>
   <key-id>0</key-id>
   <config>
      <key-id>0</key-id>
   </config>
      <encrypted>WORD</encrypted> <!-- operation="delete"-->
</key-list>
</keys>
</key-chain>
</key-chains>
```

Command Syntax

```
 key-string encrypted WORD
```

IPI-PIM

Configure bfd

Use this attribute to debug the PIM BFD feature.

This command is supported when following feature are enabled Bidirectional Forwarding Detection (BFD)

Attribute Name: bfd

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<debug>
<config>
   </bfd><!-- operation="delete"-->
</config>
</debug>
```

```
</pim>
```

Command Syntax

```
debug pim bfd
```

IPI-PIM-IPV4

Configure router id

Use this attribute to configure PIM router-ID to uniquely identify the router.By default, PIM registers for the NSM router-id service. This attribute will override the router-id received from NSM.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) router-id A.B.C.D
```

Configure join prune interval

Use this attribute to set a PIM join/prune timer.

Attribute Name: join-prune-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
```

```
        <vrf-name>NAME</vrf-name>
      </config>
        <join-prune-interval>1</join-prune-interval> <!-- operation="delete"-->
  </instance>
  </instances>
  </ipv4>
  </pim>
```

Command Syntax

```
ip pim (vrf NAME|) jp-timer <1-65535>
```

Configure ecmp bundle

Use this attribute to create an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) ecmp-bundle WORD
```

Configure enable bfd all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
```

```
       <vrf-name>NAME</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
       </config>
          </enable-bfd-all-interfaces><!-- operation="delete"-->
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
    ip pim (vrf NAME|) bfd all-interfaces
```

Configure register reachability check

Use this attribute to enable the RP reachability check for PIM Registers at the designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: register-reachability-check

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <register-packet>
      <config>
            <register-reachability-check>enable</register-reachability-check> <!--
operation="delete"-->
      </config>
   </register-packet>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
    ip pim (vrf NAME|) register-rp-reachability (disable|enable)
```

Configure rate limit

Use this attribute to configure the rate of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: rate-limit

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
          <rate-limit>1</rate-limit> <!-- operation="delete"-->
   </config>
</register-packet>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) register-rate-limit <1-65535>
```

Configure suppress interval

Use this attribute to configure the register suppression time.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: suppress-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 11-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
          <suppress-interval>11</suppress-interval> <!-- operation="delete"-->
```

```
    </config>
</register-packet>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) register-suppression <11-65535>
```

Configure keep alive interval

Use this attribute to configure a Keep alive Timer (KAT) value for (S,G) states at RP to monitor PIM register packets.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: keep-alive-interval

Attribute Type: uint16

Default Value: 185

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <register-packet>
    <config>
           <keep-alive-interval>1</keep-alive-interval> <!-- operation="delete"-->
    </config>
</register-packet>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) rp-register-kat <1-65535>
```

Configure source address

Use this attribute to configure the source address of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: source-address

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
          <source-address>PIM_IPV4_REG_SOURCE_T</source-address>
   </config>
</register-packet>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) register-source (A.B.C.D|IFNAME)
```

Configure accept register

Use this attribute to configure the ACL of register packets accepted by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: accept-register

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
          <accept-register>WORD</accept-register> <!-- operation="delete"-->
   </config>
</register-packet>
</instance>
</instances>
```

```
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) accept-register list WORD
```

Configure ignore rp set priority

Use this attribute to ignore the RP-SET priority value, and use only the hashing mechanism for RP selection. This is used to inter-operate with older Cisco IOS versions.

Attribute Name: ignore-rp-set-priority

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <interop>
   <config>
         </ignore-rp-set-priority><!-- operation="delete"-->
   </config>
</interop>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) ignore-rp-set-priority
```

Configure cisco bsr interop enable

Use this attribute to turn on or turn the Candidate-RP debugging timerworking with Cisco BSR.

Attribute Name: cisco-bsr-interop-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
```

```
          <vrf-name>NAME</vrf-name>
       </config>
       <interop>
       <config>
              </cisco-bsr-interop-enable><!-- operation="delete"-->
       </config>
   </interop>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
ip pim (vrf NAME|) crp-cisco-prefix
```

Configure access control list

Use this attribute to configure the option to calculate the register checksum over the whole packet on multicast groups specified by the access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <interop>
      <register-packet>
      <config>
             </cisco-register-checksum-enable><!-- operation="delete"-->
             <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
      </config>
   </register-packet>
   </interop>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
ip pim (vrf NAME|) cisco-register-checksum group-list WORD
```

Configure cisco register checksum enable

Use this attribute to configure the option to calculate the register checksum over the whole packet. This is used to inter-operate with older Cisco IOS versions.

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <interop>
   <register-packet>
   <config>
          </cisco-register-checksum-enable>
   </config>
</register-packet>
</interop>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) cisco-register-checksum
```

Configure vrf name

Use this attribute to to enable the ability of the last-hop PIM router to switch to SPT for multicast group addresses indicated by the given standard access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
```

```
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <spt-switch>
      <config>
            </enable><!-- operation="delete"-->
            <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
      </config>
   </spt-switch>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
    ip pim (vrf NAME|) spt-threshold group-list WORD
```

Configure enable

Use this attribute to enable the ability of the last-hop PIM router to switch to SPT.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <spt-switch>
      <config>
            </enable>
      </config>
   </spt-switch>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
    ip pim (vrf NAME|) spt-threshold
```

Configure range policy

Use this attribute to set Source Specific Multicast (SSM) and define the range of multicast IP addresses. Ranges can be either the default, which defines the SSM range as 232/8, or indicated by the given standard access control list.

This command is supported when following feature are enabled PIM Source Specific Multicast (SSM)

Attribute Name: range-policy

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ssm>
   <config>
         <range-policy>PIM_IPV4_SSM_RANGE_POLICY_TYPE_T</range-policy>
   </config>
</ssm>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) ssm (range WORD|default)
```

Configure member rp address

Destination IP address where register messages are copied and sent. A Member RP is an individual RP member in the anycast RP set.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: member-rp-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
```

```
    <anycast-rps>
    <anycast-rp> <!-- operation="delete"-->
        <member-rp-address>A.B.C.D</member-rp-address>
        <config>
            <member-rp-address>A.B.C.D</member-rp-address>
            <anycast-rp-address>A.B.C.D</anycast-rp-address>
        </config>
            <anycast-rp-address>A.B.C.D</anycast-rp-address>
    </anycast-rp>
</anycast-rps>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) anycast-rp A.B.C.D A.B.C.D
```

Configure rp address

Use this attribute to statically configure Rendezvous Point (RP) address for multicast groups.

Attribute Name: rp-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <rendezvous-point>
    <static-rps>
    <static-rps-default>
    <static-rp-default> <!-- operation="delete"-->
        <rp-address>A.B.C.D</rp-address>
        <config>
            <rp-address>A.B.C.D</rp-address>
        </config>
    </static-rp-default>
</static-rps-default>
</static-rps>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) rp-address A.B.C.D
```

Configure override dynamically learned rp

Use this attribute do configure the flag to overrides dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <rendezvous-point>
      <static-rps>
      <static-rps-default>
      <static-rp-default>
         <rp-address>A.B.C.D</rp-address>
         <config>
            <rp-address>A.B.C.D</rp-address>
            <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
         </config>
            </override-dynamically-learned-rp><!-- operation="delete"-->
      </static-rp-default>
   </static-rps-default>
   </static-rps>
   </rendezvous-point>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
ip pim (vrf NAME|) rp-address A.B.C.D WORD override
```

Configure static-rp-default access-control-list

Use this attribute to configure the name of access control list (ACL).

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
    <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
    <ipv4>
    <instances>
    <instance>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
        <static-rps>
        <static-rps-default>
        <static-rp-default>
            <rp-address>A.B.C.D</rp-address>
            <config>
                <rp-address>A.B.C.D</rp-address>
            </config>
                <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
        </static-rp-default>
    </static-rps-default>
    </static-rps>
    </rendezvous-point>
    </instance>
    </instances>
    </ipv4>
    </pim>
```

Command Syntax

```
     ip pim (vrf NAME|) rp-address A.B.C.D WORD
```

Configure static-rp-default override-dynamically-learned-rp

Use this attribute do configure the flag to overrides dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Netconf edit-config payload

```
    <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
    <ipv4>
    <instances>
    <instance>
        <vrf-name>NAME</vrf-name>
        <config>
```

```
        <vrf-name>NAME</vrf-name>
      </config>
      <rendezvous-point>
      <static-rps>
      <static-rps-default>
      <static-rp-default>
         <rp-address>A.B.C.D</rp-address>
         <config>
            <rp-address>A.B.C.D</rp-address>
         </config>
            </override-dynamically-learned-rp><!-- operation="delete"-->
      </static-rp-default>
   </static-rps-default>
   </static-rps>
   </rendezvous-point>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
ip pim (vrf NAME|) rp-address A.B.C.D override
```

Configure interface name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
         <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
```

```
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME
```

Configure hash mask length

Use this attribute to configure the mask length used to calculate the group address for RP.

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
         <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
         <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME <0-32>
```

Configure priority

Use this attribute to configure the priority value for candidate BSR router.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
         <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
         <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
         <priority>0</priority> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME <0-32> <0-255>
```

Configure bsr-candidate interface-name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
          <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) bsr-candidate IFNAME
```

Configure rp-candidates interface-name

Use this attribute to configure the interface name for RP.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <rp-candidates>
   <rp-candidate> <!-- operation="delete"-->
      <interface-name>IFNAME</interface-name>
      <config>
         <interface-name>IFNAME</interface-name>
```

```
          </config>
       </rp-candidate>
   </rp-candidates>
   </rendezvous-point>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
    ip pim (vrf NAME|) rp-candidate IFNAME
```

Configure advertisement interval

Use this attribute to configure the priority value for RP candidate.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: advertisement-interval

Attribute Type: uint16

Attribute Range: 1-16383

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <rendezvous-point>
      <rp-candidates>
      <rp-candidate>
         <interface-name>IFNAME</interface-name>
         <config>
            <interface-name>IFNAME</interface-name>
            <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
            <advertisement-interval>1</advertisement-interval> <!--
operation="delete"-->
         </config>
            <priority>0</priority> <!-- operation="delete"-->
      </rp-candidate>
```

```
</rp-candidates>
</rendezvous-point>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (vrf NAME|) rp-candidate IFNAME (group-list WORD|) (interval <1-16383>|)
  (priority <0-255>|)
```

Configure originator id

Use this attribute to allow a Multicast Source Discovery Protocol (MSDP) speaker that originates a Source-Active (SA) message to use the IP address of an interface as a rendezvous point (RP) address in the SA message.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: originator-id

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <msdp>
   <config>
         <originator-id>IFNAME</originator-id> <!-- operation="delete"-->
   </config>
</msdp>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) originator-id IFNAME
```

Configure group address

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) remote group.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: rp-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <msdp>
   <source-active-entries>
   <source-active-entry> <!-- operation="delete"-->
      <group-address>A.B.C.D</group-address>
      <config>
         <group-address>A.B.C.D</group-address>
         <source-address>A.B.C.D</source-address>
         <rp-address>A.B.C.D</rp-address>
      </config>
         <source-address>A.B.C.D</source-address>
   </source-active-entry>
</source-active-entries>
</msdp>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) sa s A.B.C.D g A.B.C.D r A.B.C.D
```

Configure address

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
```

```
        <vrf-name>NAME</vrf-name>
      </config>
      <msdp>
      <peers>
      <peer> <!-- operation="delete"-->
         <address>A.B.C.D</address>
         <config>
            <address>A.B.C.D</address>
         </config>
      </peer>
   </peers>
   </msdp>
   </instance>
   </instances>
   </ipv4>
   </pim>
```

Command Syntax

```
ip msdp (vrf NAME|) peer A.B.C.D
```

Configure mesh group

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: mesh-group

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <msdp>
      <peers>
      <peer>
         <address>A.B.C.D</address>
         <config>
            <address>A.B.C.D</address>
            <mesh-group>WORD</mesh-group> <!-- operation="delete"-->
         </config>
      </peer>
```

```
</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) mesh-group WORD A.B.C.D
```

Configure default peer

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: default-peer

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <msdp>
   <peers>
   <peer>
      <address>A.B.C.D</address>
      <config>
         <address>A.B.C.D</address>
         </default-peer><!-- operation="delete"-->
      </config>
   </peer>
</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) default-peer A.B.C.D
```

Configure prefix list

Use this attribute to set a Multicast Source Discovery Protocol (MSDP) peer from which to accept Source-Active (SA) messages.You can have multiple active default peers: 1. When you enter multiple ip msdp default-peer commands with a prefix-list keyword, all the default peers are used at the same time for different RP prefixes. This form is typically used in a service provider cloud that connects stub site clouds. 2. When you enter multiple ip msdp default-peer commands without a prefix-list keyword, a single active peer accepts all SA messages. If that peer fails, the next configured default peer accepts all SA messages. This form is typically used at a stub site.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: prefix-list

Attribute Type: union

Attribute Name: default-peer

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <msdp>
   <peers>
   <peer>
      <address>A.B.C.D</address>
      <config>
         <address>A.B.C.D</address>
         </default-peer><!-- operation="delete"-->
      </config>
         <prefix-list>PIM_IPV4_MSDP_PEER_ACL_T</prefix-list>
   </peer>
</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) default-peer A.B.C.D prefix-list (WORD|<1-99>)
```

Configure peer source-address

Use this attribute to configure an Multicast Source Discovery Protocol (MSDP) peer relationship.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: source-address

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <msdp>
   <peers>
   <peer>
      <address>A.B.C.D</address>
      <config>
         <address>A.B.C.D</address>
      </config>
         <source-address>PIM_IPV4_REG_SOURCE_T</source-address>
   </peer>
</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) peer A.B.C.D connect-source (A.B.C.D|IFNAME)
```

Configure password

Use this command to set an password key used for authenticating a Multicast Source Discovery Protocol (MSDP) peer. By default, no password is enabled.

This command is supported when following feature are enabled HAVE_PIM_MSDP

Attribute Name: password

Attribute Type: string

Attribute Range: 1-218

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
```

```
    </config>
    <msdp>
    <peers>
    <peer>
       <address>A.B.C.D</address>
       <config>
          <address>A.B.C.D</address>
       </config>
       <authentication>
       <config>
              <password>WORD</password> <!-- operation="delete"-->
       </config>
    </authentication>
</peer>
</peers>
</msdp>
</instance>
</instances>
</ipv4>
</pim>
```

Command Syntax

```
ip msdp (vrf NAME|) password WORD peer A.B.C.D
```

Configure options

Use this attribute to debug the PIM IPv4 feature.

Attribute Name: options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <debug>
   <config>
          <options>all</options> <!-- operation="delete"-->
   </config>
</debug>
</instance>
</instances>
</ipv4>
```

```
</pim>
```

Command Syntax

```
debug ip pim (vrf NAME|) (all|events|packet|packet in|packet
  out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
  hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
  ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
  bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)
```

Configure passive enable

PIM IPv4 passive mode.

Attribute Name: passive-enable

Attribute Type: empty

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
      <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
   </config>
      </passive-enable><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (dense-mode|sparse-mode) passive
```

Configure pim mode

PIM IPv4 mode to use when delivering multicast traffic via this interface.

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
```

```
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim (dense-mode|sparse-mode)
```

Configure bsr border

When set to true the device will not send bootstrap router messages over this interface. By default these are transmitted over all PIM IPv4 sparse mode (PIM-SM) enabled interfaces.

Attribute Name: bsr-border

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        </bsr-border><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim bsr-border
```

Configure dr priority

The designated router priority of this interface. Larger always preferred.

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
```

```
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <dr-priority>0</dr-priority> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim dr-priority <0-4294967294>
```

Configure hello interval

Use this attribute to configure a hello interval value other than the default. When a hello-interval is configured and hello-holdtime is not configured, or when the hello-holdtime value configured is less than the new hello-interval value, the holdtime value is modified to (3.5 * hello_interval). Otherwise, the hello-holdtime value is the configured value.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-18724

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <hello-interval>1</hello-interval> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim hello-interval <1-18724>
```

Configure hello holdtime

Use this attribute to configure a hello message holdtime other than the default.

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 105

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <hello-holdtime>1</hello-holdtime> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim hello-holdtime <1-65535>
```

Configure exclude generated id

Exclude Gen-id option from PIM IPv4 Hello packets on this interface.

Attribute Name: exclude-generated-id

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </exclude-generated-id><!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim exclude-genid
```

Configure unicast bootstrap router

Use this attribute to enable support for sending and receiving unicast Bootstrap Messages (BSM) on an interface.

Attribute Name: unicast-bootstrap-router

Attribute Type: empty

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         </unicast-bootstrap-router><!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv4>
   </pim>
```

Command Syntax

```
    ip pim unicast-bsm
```

Configure neighbor access control list filter

Use this attribute to enable filtering of neighbors on the interface. When configuring a neighbor filter, PIM IPv4 either not establishes adjacency with neighbor or terminates adjacency with existing neighbors, when denied by filtering access list.

Attribute Name: neighbor-access-control-list-filter

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <neighbor-access-control-list-filter>WORD</neighbor-access-control-list-
filter> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv4>
   </pim>
```

Command Syntax

```
ip pim neighbor-filter WORD
```

Configure state refresh origination interval

Use this attribute to configure a PIM-DM State-Refresh origination interval other than the default value. The origination interval is the number of seconds between PIM-DM State Refresh control messages.

Attribute Name: state-refresh-origination-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 1-100

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <state-refresh-origination-interval>1</state-refresh-origination-interval>
<!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv4>
   </pim>
```

Command Syntax

```
ip pim state-refresh origination-interval <1-100>
```

Configure name

Use this attribute to configure an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv4>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
```

```
        <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
    </interface>
    </interfaces>
    </ipv4>
    </pim>
```

Command Syntax

```
ip pim bind ecmp-bundle WORD
```

Configure propagation delay

Propagation-delay value.

Attribute Name: propagation-delay

Attribute Type: uint16

Default Value: 1000

Attribute Range: 0-32767

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <propagation-delay>0</propagation-delay> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim propagation-delay <0-32767>
```

Configure enable bfd

Use this attribute to configure Bidirectional Forwarding Detection.

Attribute Name: enable-bfd

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
```

```
    <config>
       <name>WORD</name>
    </config>
       <enable-bfd>enable</enable-bfd> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim bfd (disable|)
```

Configure virtual router id

Use this attribute to set the designated router's priority value.

This command is supported when following feature are enabled HAVE_PIM_SM_VRRP_AWARE

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Attribute Name: virtual-router-id

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <pim-redundancy>
   <vrrp>
   <config>
          <virtual-router-id>1</virtual-router-id>
          <dr-priority>0</dr-priority>
   </config>
</vrrp>
</pim-redundancy>
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim redundancy <1-255> vrrp dr-priority <0-4294967294>
```

Configure vrrp virtual-router-id

Use this attribute to set virtual router identifier value.

This command is supported when following feature are enabled HAVE_PIM_SM_VRRP_AWARE

Attribute Name: virtual-router-id

Attribute Type: uint8

Attribute Range: 1-255

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <pim-redundancy>
   <vrrp>
   <config>
          <dr-priority>0</dr-priority>
          <virtual-router-id>1</virtual-router-id>
   </config>
</vrrp>
</pim-redundancy>
</interface>
</interfaces>
</ipv4>
</pim>
```

Command Syntax

```
ip pim redundancy <1-255> vrrp dr-priority <0-4294967294>
```

snmp restart pim

Netconf RPC payload

```
      <ipi-pim-ipv4_pim-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
pim"/>
```

Command Syntax

```
snmp restart pim
```

clear ip pim (vrf NAME|) (sparse-mode) bsr rp-set *

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (sparse-mode)

Netconf RPC payload

```
      <ipi-pim-ipv4_pim-ipv4-clear-bsr-rendezvous-point xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
      <vrf-name>NAME</vrf-name>
      <pim-mode>sparse-mode</pim-mode>
      </ipi-pim-ipv4_pim-ipv4-clear-bsr-rendezvous-point>
```

Command Syntax

```
    clear ip pim (vrf NAME|) (sparse-mode) bsr rp-set *
```

clear ip mroute (vrf NAME|) * pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
      <ipi-pim-ipv4_pim-ipv4-clear-multicast-route xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
      <vrf-name>NAME</vrf-name>
      <pim-mode>dense-mode</pim-mode>
      </ipi-pim-ipv4_pim-ipv4-clear-multicast-route>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) * pim (dense-mode|sparse-mode)
```

clear ip mroute (vrf NAME|) A.B.C.D pim sparse-mode

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       </ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) A.B.C.D pim sparse-mode
```

clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
       <ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group-mode xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       <source-address>A.B.C.D</source-address>
       <pim-mode>dense-mode</pim-mode>
       </ipi-pim-ipv4_pim-ipv4-clear-multicast-route-source-group-mode>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D pim (dense-mode|sparse-mode)
```

clear ip msdp (vrf NAME|) peer (A.B.C.D|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <ipi-pim-ipv4_pim-ipv4-clear-msdp-peer xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-pim">
```

```
<vrf-name>NAME</vrf-name>
<address>A.B.C.D</address>
</ipi-pim-ipv4_pim-ipv4-clear-msdp-peer>
```

Command Syntax

```
clear ip msdp (vrf NAME|) peer (A.B.C.D|)
```

clear ip msdp (vrf NAME|) sa-cache (A.B.C.D|)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<ipi-pim-ipv4_pim-ipv4-clear-msdp-sa-cache xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
<vrf-name>NAME</vrf-name>
<group-address>A.B.C.D</group-address>
</ipi-pim-ipv4_pim-ipv4-clear-msdp-sa-cache>
```

Command Syntax

```
clear ip msdp (vrf NAME|) sa-cache (A.B.C.D|)
```

debug ip pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Netconf RPC payload

```
<ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
<vrf-name>NAME</vrf-name>
<terminal-debug-options>all</terminal-debug-options>
</ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-on>
```

Command Syntax

```
debug ip pim (vrf NAME|) (all|events|packet|packet in|packet
  out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
  hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
  ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
  bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)
```

no debug ip pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)

Netconf RPC payload

```
      <ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
      <vrf-name>NAME</vrf-name>
      <terminal-debug-options>all</terminal-debug-options>
      </ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-off>
```

Command Syntax

```
no debug ip pim (vrf NAME|) (all|events|packet|packet in|packet
  out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
  hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
  ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
  bst|timer bsr crp|mib|nsm|nexthop|mtrace|msdp)
```

debug ip pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
      <ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
      <vrf-name>NAME</vrf-name>
      </ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-on>
```

Command Syntax

```
debug ip pim (vrf NAME|)
```

no debug ip pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
      <ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
      <vrf-name>NAME</vrf-name>
      </ipi-pim-ipv4-debug_pim-ipv4-terminal-debug-all-off>
```

Command Syntax

```
no debug ip pim (vrf NAME|)
```

IPI-PIM-IPV6

Configure router id

Use this attribute to configure PIM router-ID to uniquely identify the router.By default, PIM registers for the NSM router-id service. This attribute will override the router-id received from NSM.

Attribute Name: router-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      <router-id>A.B.C.D</router-id> <!-- operation="delete"-->
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) router-id A.B.C.D
```

Configure join prune interval

Use this attribute to set a PIM join/prune timer.

Attribute Name: join-prune-interval

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      <join-prune-interval>1</join-prune-interval> <!-- operation="delete"-->
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) jp-timer <1-65535>
```

Configure ecmp bundle

Use this attribute to create an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) ecmp-bundle WORD
```

Configure enable bfd all interfaces

Use this attribute to enable Bidirectional Forwarding Detection (BFD) on all interfaces.

Attribute Name: enable-bfd-all-interfaces

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      </enable-bfd-all-interfaces><!-- operation="delete"-->
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) bfd all-interfaces
```

Configure register reachability check

Use this attribute to enable the RP reachability check for PIM Registers at the designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: register-reachability-check

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
```

```
            <register-reachability-check>enable</register-reachability-check> <!--
operation="delete"-->
       </config>
   </register-packet>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
    ipv6 pim (vrf NAME|) register-rp-reachability (disable|enable)
```

Configure rate limit

Use this attribute to configure the rate of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: rate-limit

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <register-packet>
      <config>
             <rate-limit>1</rate-limit> <!-- operation="delete"-->
      </config>
   </register-packet>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
    ipv6 pim (vrf NAME|) register-rate-limit <1-65535>
```

Configure suppress interval

Use this attribute to configure the register suppression time.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: suppress-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 11-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
          <suppress-interval>11</suppress-interval> <!-- operation="delete"-->
   </config>
</register-packet>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) register-suppression <11-65535>
```

Configure keep alive interval

Use this attribute to configure a Keep alive Timer (KAT) value for (S,G) states at RP to monitor PIM register packets.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: keep-alive-interval

Attribute Type: uint16

Default Value: 185

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
          <keep-alive-interval>1</keep-alive-interval> <!-- operation="delete"-->
```

```
    </config>
</register-packet>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-register-kat <1-65535>
```

Configure source address

Use this attribute to configure the source address of register packets sent by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: source-address

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <register-packet>
    <config>
           <source-address>PIM_IPV6_REG_SOURCE_T</source-address>
    </config>
</register-packet>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) register-source (X:X::X:X|IFNAME)
```

Configure accept register

Use this attribute to configure the ACL of register packets accepted by this designated router (DR).

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: accept-register

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <register-packet>
   <config>
         <accept-register>WORD</accept-register> <!-- operation="delete"-->
   </config>
</register-packet>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) accept-register list WORD
```

Configure ignore rp set priority

Use this attribute to ignore the RP-SET priority value, and use only the hashing mechanism for RP selection. This is used to inter-operate with older Cisco IOS versions.

Attribute Name: ignore-rp-set-priority

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <interop>
   <config>
         </ignore-rp-set-priority><!-- operation="delete"-->
   </config>
</interop>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) ignore-rp-set-priority
```

Configure cisco bsr interop enable

Use this attribute to turn on or turn the Candidate-RP debugging timerworking with Cisco BSR.

Attribute Name: cisco-bsr-interop-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <interop>
   <config>
          </cisco-bsr-interop-enable><!-- operation="delete"-->
   </config>
</interop>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) crp-cisco-prefix
```

Configure access control list

Use this attribute to configure the option to calculate the register checksum over the whole packet on multicast groups specified by the access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
```

```
       <vrf-name>NAME</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
       </config>
       <interop>
       <register-packet>
       <config>
              </cisco-register-checksum-enable><!-- operation="delete"-->
              <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
       </config>
   </register-packet>
   </interop>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) cisco-register-checksum group-list WORD
```

Configure cisco register checksum enable

Use this attribute to configure the option to calculate the register checksum over the whole packet. This is used to inter-operate with older Cisco IOS versions.

Attribute Name: cisco-register-checksum-enable

Attribute Type: empty

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <interop>
      <register-packet>
      <config>
             </cisco-register-checksum-enable>
      </config>
   </register-packet>
   </interop>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) cisco-register-checksum
```

Configure vrf name

Use this attribute to to enable the ability of the last-hop PIM router to switch to SPT for multicast group addresses indicated by the given standard access control list.

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <spt-switch>
      <config>
            </enable><!-- operation="delete"-->
            <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
      </config>
   </spt-switch>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) spt-threshold group-list WORD
```

Configure enable

Use this attribute to enable the ability of the last-hop PIM router to switch to SPT.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <instances>
```

```
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <spt-switch>
   <config>
          </enable>
   </config>
</spt-switch>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) spt-threshold
```

Configure range policy

Use this attribute to set Source Specific Multicast (SSM) and define the range of multicast IP addresses. Ranges can be either the default, which defines the SSM range as FF3x::/96, or indicated by the given standard access control list.

This command is supported when following feature are enabled PIM Source Specific Multicast (SSM)

Attribute Name: range-policy

Attribute Type: union

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ssm>
   <config>
          <range-policy>PIM_IPV6_SSM_RANGE_POLICY_TYPE_T</range-policy>
   </config>
</ssm>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) ssm (range WORD|default)
```

Configure member rp address

Destination IPv6 address where register messages are copied and sent. A Member RP is an individual RP member in the anycast RP set.

This command is supported when following feature are enabled PIM Sparse Mode (SM)

Attribute Name: member-rp-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <anycast-rps>
   <anycast-rp> <!-- operation="delete"-->
      <member-rp-address>X:X::X:X</member-rp-address>
      <config>
         <member-rp-address>X:X::X:X</member-rp-address>
         <anycast-rp-address>X:X::X:X</anycast-rp-address>
      </config>
         <anycast-rp-address>X:X::X:X</anycast-rp-address>
   </anycast-rp>
</anycast-rps>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) anycast-rp X:X::X:X X:X::X:X
```

Configure embed rp

Use this attribute to embed the PIM Rendezvous Point

Attribute Name: embed-rp

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
```

```
    <vrf-name>NAME</vrf-name>
    <config>
       <vrf-name>NAME</vrf-name>
    </config>
    <rendezvous-point>
    <config>
          <embed-rp>enable</embed-rp> <!-- operation="delete"-->
    </config>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp embedded (disable|enable)
```

Configure rp address

Use this attribute to statically configure Rendezvous Point (RP) address for multicast groups.

Attribute Name: rp-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
    <vrf-name>NAME</vrf-name>
    <config>
       <vrf-name>NAME</vrf-name>
    </config>
    <rendezvous-point>
    <static-rps>
    <static-rps-default>
    <static-rp-default> <!-- operation="delete"-->
       <rp-address>X:X::X:X</rp-address>
       <config>
          <rp-address>X:X::X:X</rp-address>
       </config>
    </static-rp-default>
</static-rps-default>
</static-rps>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-address X:X::X:X
```

Configure override dynamically learned rp

Use this attribute do configure the flag to overrides dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <rendezvous-point>
      <static-rps>
      <static-rps-default>
      <static-rp-default>
         <rp-address>X:X::X:X</rp-address>
         <config>
            <rp-address>X:X::X:X</rp-address>
            <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
         </config>
            </override-dynamically-learned-rp><!-- operation="delete"-->
      </static-rp-default>
   </static-rps-default>
   </static-rps>
   </rendezvous-point>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-address X:X::X:X WORD override
```

Configure static-rp-default access-control-list

Use this attribute to configure the name of access control list (ACL).

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
    <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
    <ipv6>
    <instances>
    <instance>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>NAME</vrf-name>
        </config>
        <rendezvous-point>
        <static-rps>
        <static-rps-default>
        <static-rp-default>
            <rp-address>X:X::X:X</rp-address>
            <config>
                <rp-address>X:X::X:X</rp-address>
            </config>
                <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
        </static-rp-default>
    </static-rps-default>
    </static-rps>
    </rendezvous-point>
    </instance>
    </instances>
    </ipv6>
    </pim>
```

Command Syntax

```
     ipv6 pim (vrf NAME|) rp-address X:X::X:X WORD
```

Configure static-rp-default override-dynamically-learned-rp

Use this attribute do configure the flag to overrides dynamically learned RP mappings.

Attribute Name: override-dynamically-learned-rp

Attribute Type: empty

Netconf edit-config payload

```
    <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
    <ipv6>
    <instances>
    <instance>
        <vrf-name>NAME</vrf-name>
        <config>
```

```
        <vrf-name>NAME</vrf-name>
      </config>
      <rendezvous-point>
      <static-rps>
      <static-rps-default>
      <static-rp-default>
         <rp-address>X:X::X:X</rp-address>
         <config>
            <rp-address>X:X::X:X</rp-address>
         </config>
            </override-dynamically-learned-rp><!-- operation="delete"-->
      </static-rp-default>
   </static-rps-default>
   </static-rps>
   </rendezvous-point>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-address X:X::X:X override
```

Configure interface name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
         <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
```

```
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME
```

Configure hash mask length

Use this attribute to configure the mask length used to calculate the group address for RP.

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
         <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
         <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME <0-32>
```

Configure priority

Use this attribute to configure the priority value for candidate BSR router.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: hash-mask-length

Attribute Type: uint8

Attribute Range: 0-32

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
         <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
         <hash-mask-length>0</hash-mask-length> <!-- operation="delete"-->
         <priority>0</priority> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME <0-32> <0-255>
```

Configure bsr-candidate interface-name

Use this attribute to configure the interface for the candidate BSR router.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <bootstrap-router>
   <bsr-candidate>
   <config>
          <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
   </config>
</bsr-candidate>
</bootstrap-router>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) bsr-candidate IFNAME
```

Configure rp-candidates interface-name

Use this attribute to configure the interface name for RP.

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <rendezvous-point>
   <rp-candidates>
   <rp-candidate> <!-- operation="delete"-->
      <interface-name>IFNAME</interface-name>
      <config>
         <interface-name>IFNAME</interface-name>
```

```
          </config>
       </rp-candidate>
   </rp-candidates>
   </rendezvous-point>
   </instance>
   </instances>
   </ipv6>
   </pim>
```

Command Syntax

```
    ipv6 pim (vrf NAME|) rp-candidate IFNAME
```

Configure advertisement interval

Use this attribute to configure the priority value for RP candidate.

Attribute Name: priority

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: access-control-list

Attribute Type: string

Attribute Range: 1-64

Attribute Name: advertisement-interval

Attribute Type: uint16

Attribute Range: 1-16383

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <instances>
   <instance>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <rendezvous-point>
      <rp-candidates>
      <rp-candidate>
         <interface-name>IFNAME</interface-name>
         <config>
            <interface-name>IFNAME</interface-name>
            <access-control-list>WORD</access-control-list> <!-- operation="delete"--
>
            <advertisement-interval>1</advertisement-interval> <!--
operation="delete"-->
         </config>
            <priority>0</priority> <!-- operation="delete"-->
      </rp-candidate>
```

```
</rp-candidates>
</rendezvous-point>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (vrf NAME|) rp-candidate IFNAME (group-list WORD|) (interval <1-16383>|)
  (priority <0-255>|)
```

Configure options

Use this attribute to debug the PIM IPv6 feature.

Attribute Name: options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<instances>
<instance>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <debug>
   <config>
          <options>all</options> <!-- operation="delete"-->
   </config>
</debug>
</instance>
</instances>
</ipv6>
</pim>
```

Command Syntax

```
debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet
  out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
  hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
  ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
  bst|timer bsr crp|mib|nsm|nexthop|mtrace)
```

Configure passive enable

PIM IPv6 passive mode.

Attribute Name: passive-enable

Attribute Type: empty

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
        <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
    </config>
        </passive-enable><!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (dense-mode|sparse-mode) passive
```

Configure pim mode

PIM IPv6 mode to use when delivering multicast traffic via this interface.

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <pim-mode>dense-mode</pim-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim (dense-mode|sparse-mode)
```

Configure bsr border

When set to true the device will not send bootstrap router messages over this interface. By default these are transmitted over all PIM IPv6 sparse mode (PIM-SM) enabled interfaces.

Attribute Name: bsr-border

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        </bsr-border><!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
 ipv6 pim bsr-border
```

Configure dr priority

The designated router priority of this interface. Larger always preferred.

Attribute Name: dr-priority

Attribute Type: uint32

Attribute Range: 0-4294967294

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <dr-priority>0</dr-priority> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim dr-priority <0-4294967294>
```

Configure hello interval

Use this attribute to configure a hello interval value other than the default. When a hello-interval is configured and hello-holdtime is not configured, or when the hello-holdtime value configured is less than the new hello-interval value, the holdtime value is modified to (3.5 * hello_interval). Otherwise, the hello-holdtime value is the configured value.

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-18724

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <hello-interval>1</hello-interval> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim hello-interval <1-18724>
```

Configure hello holdtime

Use this attribute to configure a hello message holdtime other than the default.

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 105

Attribute Range: 1-65535

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
```

```
        <name>WORD</name>
    </config>
        <hello-holdtime>1</hello-holdtime> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim hello-holdtime <1-65535>
```

Configure exclude generated id

Exclude Gen-id option from PIM IPv6 Hello packets on this interface.

Attribute Name: exclude-generated-id

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        </exclude-generated-id><!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim exclude-genid
```

Configure unicast bootstrap router

Use this attribute to enable support for sending and receiving unicast Bootstrap Messages (BSM) on an interface.

Attribute Name: unicast-bootstrap-router

Attribute Type: empty

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
```

```
          <name>WORD</name>
       </config>
          </unicast-bootstrap-router><!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv6>
   </pim>
```

Command Syntax

```
    ipv6 pim unicast-bsm
```

Configure neighbor access control list filter

Use this attribute to enable filtering of neighbors on the interface. When configuring a neighbor filter, PIM IPv6 either not establishes adjacency with neighbor or terminates adjacency with existing neighbors, when denied by filtering access list.

Attribute Name: neighbor-access-control-list-filter

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <neighbor-access-control-list-filter>WORD</neighbor-access-control-list-
filter> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv6>
   </pim>
```

Command Syntax

```
    ipv6 pim neighbor-filter WORD
```

Configure state refresh origination interval

Use this attribute to configure a PIM-DM State-Refresh origination interval other than the default value. The origination interval is the number of seconds between PIM-DM State Refresh control messages.

Attribute Name: state-refresh-origination-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 1-100

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <state-refresh-origination-interval>1</state-refresh-origination-interval>
<!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv6>
   </pim>
```

Command Syntax

```
    ipv6 pim state-refresh origination-interval <1-100>
```

Configure name

Use this attribute to configure an ECMP bundle.

Attribute Name: ecmp-bundle

Attribute Type: string

Attribute Range: 1-50

Netconf edit-config payload

```
   <pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
   <ipv6>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <ecmp-bundle>WORD</ecmp-bundle> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </ipv6>
   </pim>
```

Command Syntax

```
    ipv6 pim bind ecmp-bundle WORD
```

Configure propagation delay

Propagation-delay value.

Attribute Name: propagation-delay

Attribute Type: uint16

Default Value: 1000

Attribute Range: 0-32767

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <propagation-delay>0</propagation-delay> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim propagation-delay <0-32767>
```

Configure enable bfd

Use this attribute to configure Bidirectional Forwarding Detection.

Attribute Name: enable-bfd

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<pim xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pim">
<ipv6>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <enable-bfd>enable</enable-bfd> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv6>
</pim>
```

Command Syntax

```
ipv6 pim bfd (disable|)
```

clear ipv6 pim (vrf NAME|) (sparse-mode) bsr rp-set *

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (sparse-mode)

Netconf RPC payload

```
       <ipi-pim-ipv6_pim-ipv6-clear-bsr-rendezvous-point xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       <pim-mode>sparse-mode</pim-mode>
       </ipi-pim-ipv6_pim-ipv6-clear-bsr-rendezvous-point>
```

Command Syntax

```
    clear ipv6 pim (vrf NAME|) (sparse-mode) bsr rp-set *
```

clear ipv6 mroute (vrf NAME|) * pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
       <ipi-pim-ipv6_pim-ipv6-clear-multicast-route xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       <pim-mode>dense-mode</pim-mode>
       </ipi-pim-ipv6_pim-ipv6-clear-multicast-route>
```

Command Syntax

```
    clear ipv6 mroute (vrf NAME|) * pim (dense-mode|sparse-mode)
```

clear ipv6 mroute (vrf NAME|) X:X::X:X pim sparse-mode

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
      <ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
      <vrf-name>NAME</vrf-name>
      <group-address>X:X::X:X</group-address>
      </ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) X:X::X:X pim sparse-mode
```

clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X pim (dense-mode|sparse-mode)

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: source-address

Attribute Type: inet:ipv6-address

Attribute Name: pim-mode

Attribute Type: enum (dense-mode|sparse-mode)

Netconf RPC payload

```
      <ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group-mode xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
      <vrf-name>NAME</vrf-name>
      <group-address>X:X::X:X</group-address>
      <source-address>X:X::X:X</source-address>
      <pim-mode>dense-mode</pim-mode>
      </ipi-pim-ipv6_pim-ipv6-clear-multicast-route-source-group-mode>
```

Command Syntax

```
clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X pim (dense-mode|sparse-mode)
```

debug pim bfd

Netconf RPC payload

```
      <ipi-pim-debug_pim-terminal-debug-bfd-on xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-pim"/>
```

Command Syntax

```
debug pim bfd
```

no debug pim bfd

Netconf RPC payload

```
       <ipi-pim-debug_pim-terminal-debug-bfd-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-pim"/>
```

Command Syntax

```
    no debug pim bfd
```

debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Netconf RPC payload

```
       <ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       <terminal-debug-options>all</terminal-debug-options>
       </ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-on>
```

Command Syntax

```
    debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet
      out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
      hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
      ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
      bst|timer bsr crp|mib|nsm|nexthop|mtrace)
```

no debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet|packet in|packet out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr bst|timer bsr crp|mib|nsm|nexthop|mtrace)

Netconf RPC payload

```
       <ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       <terminal-debug-options>all</terminal-debug-options>
       </ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-off>
```

Command Syntax

```
    no debug ipv6 pim (vrf NAME|) (all|events|packet|packet in|packet
      out|state|mfc|timer|timer hello|timer bsr|timer joinprune|timer hello ht|timer
      hello nlt|timer hello tht|timer joinprune jt|timer joinprune et|timer joinprune
      ppt|timer joinprune kat|timer joinprune ot|timer assert|timer register|timer bsr
      bst|timer bsr crp|mib|nsm|nexthop|mtrace)
```

debug ipv6 pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
       <ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       </ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-on>
```

Command Syntax

```
    debug ipv6 pim (vrf NAME|)
```

no debug ipv6 pim (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
       <ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-pim">
       <vrf-name>NAME</vrf-name>
       </ipi-pim-ipv6-debug_pim-ipv6-terminal-debug-all-off>
```

Command Syntax

```
    no debug ipv6 pim (vrf NAME|)
```

IPI-VXLAN

Configure mac address

Use this attribute to set the mac address with arp-nd refresh-timer

Attribute Name: mac-address

Attribute Type: string

Attribute Name: arp-nd-refresh-timer

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
   <vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
   <global>
   <config>
      <arp-nd-refresh-timer>3</arp-nd-refresh-timer> <!-- operation="delete"-->
      <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
<!-- operation="delete"-->
   </config>
   </global>
   </vxlan>
```

Command Syntax

```
    nvo vxlan arp-nd refresh-timer <3-190> mac (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
```

Configure enable vxlan

Use this attribute to enable VxLAN module. Without this attribute vxlan functionality can not be achieved

Attribute Name: enable-vxlan

Attribute Type: empty

Netconf edit-config payload

```
   <vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
   <global>
   <config>
      </enable-vxlan>
   </config>
   </global>
   </vxlan>
```

Command Syntax

```
    nvo vxlan enable
```

Configure vtep ipv4

Use this attribute to set source vtep global ip address. This will be treated at vxlan tunnel source address

Attribute Name: vtep-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<global>
<config>
   <vtep-ipv4>A.B.C.D</vtep-ipv4> <!-- operation="delete"-->
</config>
</global>
</vxlan>
```

Command Syntax

```
nvo vxlan vtep-ip-global A.B.C.D
```

Configure mac ageing timer

Use this attribute to set the time till a learned mac address will persist after last update

Attribute Name: mac-ageing-timer

Attribute Type: uint32

Default Value: 300

Attribute Range: 10-572

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<global>
<config>
   <mac-ageing-timer>10</mac-ageing-timer> <!-- operation="delete"-->
</config>
</global>
</vxlan>
```

Command Syntax

```
nvo vxlan mac-ageing-time <10-572>
```

Configure arp nd refresh timer

Use this attribute to configure aging out the arp-cache and nd-cache entries for given time multiplied by 3 in secs.

Attribute Name: arp-nd-refresh-timer

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<global>
<config>
   <arp-nd-refresh-timer>3</arp-nd-refresh-timer> <!-- operation="delete"-->
</config>
</global>
</vxlan>
```

Command Syntax

```
nvo vxlan arp-nd refresh-timer <3-190>
```

Configure traffic direction

Use this attribute to set global direction(ingress/egress) for VxLAN. Ingreess means traffic coming to network side and egress means traffic going out from network side

This command is supported when following feature are enabled QOS feature

Attribute Name: traffic-direction

Attribute Type: enum (ingress|egress)

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<qos-tunnel-mappings>
<qos-tunnel-mapping> <!-- operation="delete"-->
   <traffic-direction>ingress</traffic-direction>
   <config>
      <traffic-direction>ingress</traffic-direction>
      <qos-map-mode>cos-dscp</qos-map-mode>
      <profile-name>NAME</profile-name>
   </config>
   <qos-map-mode>cos-dscp</qos-map-mode>
</qos-tunnel-mapping>
</qos-tunnel-mappings>
</vxlan>
```

Command Syntax

```
nvo vxlan tunnel qos-map-mode (cos-dscp) (ingress|egress) NAME
```

Configure tenant type

Use this attribute to create tenant with multicast tunnel

Attribute Name: tenant-type

Attribute Type: enum (default|multicast|ingress-replication|ingress-replication inner-vid-disabled)

Attribute Name: etree-leaf

Attribute Type: uint8

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
      </etree-leaf>
   </config>
   <tenant-type>default</tenant-type>
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
nvo vxlan id <1-16777215> ((default|multicast|ingress-replication|ingress-
  replication inner-vid-disabled)|) (etree-leaf|)
```

Configure xconnect identifier

Use this attribute to create Xconnect tenant

Attribute Name: xconnect-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: tenant-xconnect-type

Attribute Type: enum (default|inner-vid-disabled)

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
      <tenant-xconnect-type>default</tenant-xconnect-type>
   </config>
   <xconnect-identifier>1</xconnect-identifier>
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
nvo vxlan id <1-16777215> xconnect target-vxlan-id <1-16777215> ((default|inner-
  vid-disabled)|)
```

Configure vrf name

Use this attribute to map VRF to carry EVPN routes. This defines BGP as the mechanism for host reachability advertisement.

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
   <vrf-name>NAME</vrf-name> <!-- operation="delete"-->
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
vxlan host-reachability-protocol evpn-bgp NAME
```

Configure map network

Use this attribute to map a tunnel to the tenant

Attribute Name: map-network

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
   <map-network>NAME</map-network> <!-- operation="delete"-->
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
vxlan map-network tunnel NAME
```

Configure mac hold timer

Use this attribute to set the time a host mac entry will persist after unconfiguring. Hold time range -1 to 300 in seconds. -1(never expire)

Attribute Name: mac-hold-timer

Attribute Type: int32

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
   <mac-hold-timer>-1</mac-hold-timer> <!-- operation="delete"-->
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
mac-holdtime <-1-300>
```

Configure tenant description

Use this attribute to set VxLAN identifier name

Attribute Name: tenant-description

Attribute Type: string

Attribute Range: 1-10

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
   <tenant-description>WORD</tenant-description> <!-- operation="delete"-->
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
vni-name WORD
```

Configure irb name

Use this attribute to to configure default gateway behavior on a VTEP for particular VNID.

Attribute Name: irb-name

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
   <irb-name>NAME</irb-name> <!-- operation="delete"-->
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
 evpn NAME
```

Configure evi learning limit

Attach (EVPN-VxLAN) EVI MAC learning limit profile

Attribute Name: evi-learning-limit

Attribute Type: string

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
   <evi-learning-limit>PROFILENAME</evi-learning-limit> <!-- operation="delete"-->
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
 learning limit PROFILENAME
```

Configure irb advertise host route

Use this attribute to set advertise host to route

Attribute Name: irb-advertise-host-route

Attribute Type: empty

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
<irb>
<config>
       </irb-advertise-host-route><!-- operation="delete"-->
</config>
</irb>
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
 evpn irb-advertise-host-route
```

Configure vxlan identifier

Use this attribute to know MAC address of the host.create a static route to reach a destination MAC in the VXLAN forwarding table. This command helps to supports different tenants so that they can have the same MAC/IP, but different VNIDs.This command is required for unicast tunnels to map the remote VTEP

Attribute Name: mac-address

Attribute Type: string

Attribute Name: remote-vtep-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vxlan-tenants>
<vxlan-tenant>
   <vxlan-identifier>1</vxlan-identifier>
   <config>
      <vxlan-identifier>1</vxlan-identifier>
   </config>
<static-tenants>
<static-tenant> <!-- operation="delete"-->
   <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
   <config>
      <mac-address>CML_MAC_ADDR_T</mac-address>
      <remote-vtep-ipv4>A.B.C.D</remote-vtep-ipv4>
   </config>
```

```
</static-tenant>
</static-tenants>
</vxlan-tenant>
</vxlan-tenants>
</vxlan>
```

Command Syntax

```
vxlan static-entry host-mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
  remote-vtep-ip A.B.C.D
```

Configure address

VTEP ip address

Attribute Name: address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vtep-entries>
<vtep-entry> <!-- operation="delete"-->
   <address>A.B.C.D</address>
   <config>
      <address>A.B.C.D</address>
   </config>
</vtep-entry>
</vtep-entries>
</vxlan>
```

Command Syntax

```
nvo vxlan vtep-info A.B.C.D
```

Configure description

VTEP description

Attribute Name: description

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vtep-entries>
<vtep-entry>
   <address>A.B.C.D</address>
   <config>
      <address>A.B.C.D</address>
   </config>
   <description>LINE</description> <!-- operation="delete"-->
</vtep-entry>
```

```
</vtep-entries>
</vxlan>
```

Command Syntax

```
description LINE
```

Configure redund type

VTEP redundancy type

Attribute Name: redund-type

Attribute Type: enum (s-home|m-home|mclag|sh-mh|sh-mclag|other)

Netconf edit-config payload

```
<vxlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan">
<vtep-entries>
<vtep-entry>
   <address>A.B.C.D</address>
   <config>
      <address>A.B.C.D</address>
   </config>
   <redund-type>s-home</redund-type> <!-- operation="delete"-->
</vtep-entry>
</vtep-entries>
</vxlan>
```

Command Syntax

```
redund-type (s-home|m-home|mclag|sh-mh|sh-mclag|other)
```

clear mac address-table dynamic vxlan

Netconf RPC payload

```
   <clear-nvo-vxlan-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-vxlan"/>
```

Command Syntax

```
clear mac address-table dynamic vxlan
```

clear mac address-table dynamic vxlan vnid <1-16777215> (address MACADDR|)

Attribute Name: vxlan-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
       <clear-nvo-vxlan-dynamic-mac-address-table-vnid xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-vxlan">
       <vxlan-identifier>1</vxlan-identifier>
       <mac-address>MACADDR</mac-address>
       </clear-nvo-vxlan-dynamic-mac-address-table-vnid>
```

Command Syntax

```
    clear mac address-table dynamic vxlan vnid <1-16777215> (address MACADDR|)
```

clear nvo vxlan tunnels

Netconf RPC payload

```
       <clear-nvo-vxlan-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vxlan"/
>
```

Command Syntax

```
    clear nvo vxlan tunnels
```

clear nvo vxlan tunnels dst-ip A.B.C.D

Attribute Name: destination-vtep-ip

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <clear-nvo-id-vxlan-tunnels-destip xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vxlan">
       <destination-vtep-ip>A.B.C.D</destination-vtep-ip>
       </clear-nvo-id-vxlan-tunnels-destip>
```

Command Syntax

```
    clear nvo vxlan tunnels dst-ip A.B.C.D
```

clear nvo vxlan mac-stale-entries (vnid <1-16777215>|)

Attribute Name: vxlan-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf RPC payload

```
       <clear-nvo-vxlan-mac-stale-entries xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vxlan">
       <vxlan-identifier>1</vxlan-identifier>
       </clear-nvo-vxlan-mac-stale-entries>
```

Command Syntax

```
    clear nvo vxlan mac-stale-entries (vnid <1-16777215>|)
```

clear nvo vxlan counters access-port port IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
       <clear-vxlan-untagged-access-port-counters xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-vxlan">
       <interface-name>IFNAME</interface-name>
       </clear-vxlan-untagged-access-port-counters>
```

Command Syntax

```
    clear nvo vxlan counters access-port port IFNAME
```

clear nvo vxlan counters access-port all

Netconf RPC payload

```
       <clear-vxlan-access-port-counters-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-vxlan"/>
```

Command Syntax

```
    clear nvo vxlan counters access-port all
```

clear nvo vxlan counters network-port dst A.B.C.D

Attribute Name: destination-vtep-ip

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <clear-vxlan-network-port-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-vxlan">
       <destination-vtep-ip>A.B.C.D</destination-vtep-ip>
       </clear-vxlan-network-port-counters>
```

Command Syntax

```
    clear nvo vxlan counters network-port dst A.B.C.D
```

clear nvo vxlan counters network-port all

Netconf RPC payload

```
       <clear-vxlan-network-port-counters-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-vxlan"/>
```

Command Syntax

```
    clear nvo vxlan counters network-port all
```

IPI-ETHERNET-VPN

Configure esi hold time

Use this attribute to set time before ESI can be made up on enabling evpn

Attribute Name: esi-hold-time

Attribute Type: uint32

Attribute Range: 10-300

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<multi-homing>
<config>
   <esi-hold-time>10</esi-hold-time> <!-- operation="delete"-->
</config>
</multi-homing>
</evpn>
```

Command Syntax

```
evpn esi hold-time <10-300>
```

Configure enable vxlan multihoming

Use this attribute to enable multihoming module on vxlan. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-vxlan-multihoming

Attribute Type: uint8

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </enable-vxlan-multihoming><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn multihoming enable
```

Configure global enable-vxlan-multihoming

Use this attribute to enable multihoming module on vxlan. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-vxlan-multihoming

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </enable-vxlan-multihoming><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn vxlan multihoming enable
```

Configure enable evpn mpls multihoming

Use this attribute to enable multihoming module on evpn mpls. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-evpn-mpls-multihoming

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </enable-evpn-mpls-multihoming><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn mpls multihoming enable
```

Configure enable evpn srv6 multihoming

Use this attribute to enable multihoming module on EVPN SRv6. Without this attribute multihomig functionality can not be achieved

Attribute Name: enable-evpn-srv6-multihoming

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </enable-evpn-srv6-multihoming><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn srv6 multihoming enable
```

Configure enable irb

Use this attribute to enable integrated routing and bridging module. Without this attribute IRB functionality can not be achieved

Attribute Name: enable-irb

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </enable-irb><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
nvo vxlan irb
```

Configure enable mpls irb

Use this attribute to enable integrated routing and bridging module. Without this attribute IRB functionality can not be achieved

Attribute Name: enable-mpls-irb

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </enable-mpls-irb><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn mpls irb
```

Configure enable evpn etree

Use this attribute to enable evpn etree module on evpn mpls or vxlan.

Attribute Name: enable-evpn-etree

Attribute Type: enum (enable|enable scenario-2)

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   <enable-evpn-etree>enable</enable-evpn-etree> <!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn etree (enable|enable scenario-2)
```

Configure enable evpn storm control

Use this attribute to enable evpn arp/nd storm-control on evpn mpls or vxlan.

Attribute Name: enable-evpn-storm-control

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </enable-evpn-storm-control><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn arp-nd-storm-control-enable
```

Configure mac seq zero handle

Use this attribute to ignore MAC Advertisment Route (Type 2) with sequence 0 from other PE if higher sequence exists

Attribute Name: mac-seq-zero-handle

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<global>
<config>
   </mac-seq-zero-handle><!-- operation="delete"-->
</config>
</global>
</evpn>
```

Command Syntax

```
evpn mac-seq-zero-handle
```

Configure mac address

Use this attribute to configure common anycast mac-address for all IRB interfaces

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
   <evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
   <irb-forwarding>
   <config>
      <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
<!-- operation="delete"-->
   </config>
   </irb-forwarding>
   </evpn>
```

Command Syntax

```
    evpn irb-forwarding anycast-gateway-mac (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
```

Configure gateway mac

Use this attribute to configure anycast mac-address for an IRB interface

Attribute Name: gateway-mac

Attribute Type: empty

Netconf edit-config payload

```
   <evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
   <irb-forwarding>
   <irb-interfaces>
   <irb-interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      </gateway-mac><!-- operation="delete"-->
   </irb-interface>
   </irb-interfaces>
   </irb-forwarding>
   </evpn>
```

Command Syntax

```
    evpn irb-if-forwarding anycast-gateway-mac
```

Configure freeze time

Set the time in terms of seconds

Attribute Name: freeze-time

Attribute Type: uint32

Default Value: 300

Attribute Range: 60-86400

Attribute Name: max-mac-move-count

Attribute Type: uint16

Attribute Range: 5-1000

Attribute Name: duration

Attribute Type: uint16

Default Value: 180

Attribute Range: 180-3600

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<mac-move-count>
<config>
   <max-mac-move-count>5</max-mac-move-count> <!-- operation="delete"-->
   <duration>180</duration> <!-- operation="delete"-->
   <freeze-time>60</freeze-time> <!-- operation="delete"-->
</config>
</mac-move-count>
</evpn>
```

Command Syntax

```
evpn mac-move-count <5-1000> duration <180-3600> freeze-time <60-86400>
```

Configure max mac move count

Use this attribute to set the max MAC move count

Attribute Name: max-mac-move-count

Attribute Type: uint16

Attribute Range: 5-1000

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<mac-move-count>
<config>
   <max-mac-move-count>5</max-mac-move-count>
</config>
</mac-move-count>
</evpn>
```

Command Syntax

```
evpn mac-move-count <5-1000>
```

Configure duration

Set the time in terms of seconds

Attribute Name: duration

Attribute Type: uint16

Default Value: 180

Attribute Range: 180-3600

Attribute Name: max-mac-move-count

Attribute Type: uint16

Attribute Range: 5-1000

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<mac-move-count>
<config>
   <max-mac-move-count>5</max-mac-move-count> <!-- operation="delete"-->
   <duration>180</duration> <!-- operation="delete"-->
</config>
</mac-move-count>
</evpn>
```

Command Syntax

```
 evpn mac-move-count <5-1000> duration <180-3600>
```

Configure mac-move-count freeze-time

Set the time in terms of seconds

Attribute Name: freeze-time

Attribute Type: uint32

Default Value: 300

Attribute Range: 60-86400

Attribute Name: max-mac-move-count

Attribute Type: uint16

Attribute Range: 5-1000

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<mac-move-count>
<config>
   <max-mac-move-count>5</max-mac-move-count> <!-- operation="delete"-->
   <freeze-time>60</freeze-time> <!-- operation="delete"-->
</config>
</mac-move-count>
</evpn>
```

Command Syntax

```
evpn mac-move-count <5-1000> freeze-time <60-86400>
```

Configure redundancy mode

Use this attribute to configure load balancing type

Attribute Name: redundancy-mode

Attribute Type: enum (single-active|port-active)

Attribute Name: evpn-segment-id

Attribute Type: string

Netconf edit-config payload

```
   <evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
         <evpn-segment-id>XX:XX:XX:XX:XX:XX:XX:XX:XX</evpn-segment-id> <!--
operation="delete"-->
      </config>
      <redundancy-mode>single-active</redundancy-mode> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </evpn>
```

Command Syntax

```
evpn multi-homed esi XX:XX:XX:XX:XX:XX:XX:XX:XX (load-balancing (single-
  active|port-active)|)
```

Configure name

Use this attribute to configure load balancing type

Attribute Name: redundancy-mode

Attribute Type: enum (single-active|port-active)

Attribute Name: system-mac

Attribute Type: string

Netconf edit-config payload

```
   <evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
         <system-mac>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</system-mac>
<!-- operation="delete"-->
```

```
    </config>
    <redundancy-mode>single-active</redundancy-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
evpn multi-homed system-mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
  (load-balancing (single-active|port-active)|)
```

Configure evpn mac holdtime

Use this attribute to set the evpn mac hold time

Attribute Name: evpn-mac-holdtime

Attribute Type: uint32

Attribute Range: 1-600

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <evpn-mac-holdtime>1</evpn-mac-holdtime> <!-- operation="delete"-->
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
evpn-mac-holdtime <1-600>
```

Configure service carving

Use this attribute to create or delete service-carving configuration

This command is supported when following feature are enabled DUNE feature

Attribute Name: service-carving

Attribute Type: enum (preference-based|auto)

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
```

```
   </config>
<mh-load-balance-esi>
<config>
       <service-carving>preference-based</service-carving>
</config>
</mh-load-balance-esi>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
service-carving (preference-based|auto)
```

Configure preference weight

Use this attribute to add preference to which should be elected as DF

This command is supported when following feature are enabled DUNE feature

Attribute Name: preference-weight

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mh-load-balance-esi>
<config>
       <preference-weight>1</preference-weight> <!-- operation="delete"-->
</config>
</mh-load-balance-esi>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
service-carving weight <1-65535>
```

Configure ac driven

Use this attribute to set AC Influenced DF capability

This command is supported when following feature are enabled DUNE feature

Attribute Name: ac-driven

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mh-load-balance-esi>
<config>
       </ac-driven><!-- operation="delete"-->
</config>
</mh-load-balance-esi>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
 service-carving ac-driven
```

Configure access if

evpn-mpls access port

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: access-if

Attribute Type: enum (access-if|access-if-evpn)

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface> <!-- operation="delete"-->
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
(access-if-evpn)
```

Configure dynamic learning disable

Use this attribute to disable dynamic learning of MACs and MAC/IP at the access port

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: dynamic-learning-disable

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
      </dynamic-learning-disable><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
dynamic-learning disable
```

Configure arp nd flood suppress

Use this attribute to restrict the flood of ARP/ND packets towards remote VTEPs or other access ports

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: arp-nd-flood-suppress

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
```

```
        <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
        <access-if>access-if</access-if>
    </config>
        </arp-nd-flood-suppress><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
 arp-nd flood-suppress
```

Configure cos

Use this attribute to set CoS for the ARP/ND proxy reply

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: cos

Attribute Type: int16

Attribute Range: 0-7

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
        <access-if>access-if</access-if>
    </config>
        <cos>0</cos> <!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
arp-nd cos <0-7>
```

Configure arp cache disable

Use this attribute to disable the ARP cache for MAC/IP

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: arp-cache-disable

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
      </arp-cache-disable><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
arp-cache disable
```

Configure nd cache disable

Use this attribute to disable ND-cache on access interface

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: nd-cache-disable

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
```

```
        <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
        <access-if>access-if</access-if>
    </config>
        </nd-cache-disable><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
 nd-cache disable
```

Configure mac hold time

Use this attribute to set the time a host MAC entry will persist after unconfig

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: mac-hold-time

Attribute Type: int16

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
        <access-if>access-if</access-if>
    </config>
        <mac-hold-time>-1</mac-hold-time> <!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
mac-holdtime <-1-300>
```

Configure access-interface mac-address

Use this attribute to configure static MAC only Host under Access Circuit

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
   <evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <access-interfaces>
   <access-interface>
      <access-if>access-if</access-if>
      <config>
         <access-if>access-if</access-if>
      </config>
         <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-address>
<!-- operation="delete"-->
   </access-interface>
   </access-interfaces>
   </interface>
   </interfaces>
   </evpn>
```

Command Syntax

```
mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX)
```

Configure garp gna enable

Use this attribute to allow garp-gna packets advertisement

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: garp-gna-enable

Attribute Type: empty

Netconf edit-config payload

```
   <evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
   <interfaces>
   <interface>
      <name>WORD</name>
```

```
    <config>
       <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
       <access-if>access-if</access-if>
    </config>
       </garp-gna-enable><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
 garp-gna enable
```

Configure llf enable

This attribute is used to enable link loss forwarding on subif

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: llf-enable

Attribute Type: empty

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
       <name>WORD</name>
    </config>
<access-interfaces>
<access-interface>
    <access-if>access-if</access-if>
    <config>
       <access-if>access-if</access-if>
    </config>
       </llf-enable><!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
 llf-enable
```

Configure ac learning limit

Attach MAC learning limit profile for EVPN AC

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: ac-learning-limit

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
      <ac-learning-limit>PROFILENAME</ac-learning-limit> <!-- operation="delete"-->
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
 learning limit PROFILENAME
```

Configure evpn identifier

Map already created tenant id

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: evpn-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
   <evpn-id-mappings>
   <config>
         <evpn-identifier>1</evpn-identifier> <!-- operation="delete"-->
   </config>
</evpn-id-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
map evpn mpls id <1-16777215>
```

Configure evpn-id-mappings evpn-identifier

Map already created tenant id

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: evpn-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
   <evpn-id-mappings>
   <config>
         <evpn-identifier>1</evpn-identifier> <!-- operation="delete"-->
   </config>
</evpn-id-mappings>
</access-interface>
```

```
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
map vpn-id <1-16777215>
```

Configure evpn etree leaf

Map already created tenant id

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: evpn-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: evpn-etree-leaf

Attribute Type: uint8

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
   <evpn-id-mappings>
   <config>
          </evpn-etree-leaf><!-- operation="delete"-->
          <evpn-identifier>1</evpn-identifier> <!-- operation="delete"-->
   </config>
</evpn-id-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
map vpn-id <1-16777215> (etree-leaf|)
```

Configure ipv4 address

Use this attribute to configure static MAC address of the host

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <config>
      <access-if>access-if</access-if>
   </config>
   <ipv4-host-mac-mappings>
   <ipv4-host-mac-mapping> <!-- operation="delete"-->
      <ipv4-address>A.B.C.D</ipv4-address>
      <config>
         <ipv4-address>A.B.C.D</ipv4-address>
         <mac-address>CML_MAC_ADDR_T</mac-address>
      </config>
         <mac-address>CML_MAC_ADDR_T</mac-address>
   </ipv4-host-mac-mapping>
</ipv4-host-mac-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ip IP-ADDRESS
```

Configure interfaces name

Reference to interface name

This command is supported when following feature are enabled Sub Interface feature,NVO feature

Attribute Name: name

Attribute Type: string

Attribute Name: access-if

Attribute Type: enum (access-if|access-if-evpn)

Attribute Name: mac-address

Attribute Type: string

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <ipv4-host-mac-mappings>
   <ipv4-host-mac-mapping>
      <mac-address>CML_MAC_ADDR_T</mac-address>
         <ipv4-address>A.B.C.D</ipv4-address>
      </ipv4-host-mac-mapping>
   </ipv4-host-mac-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
evpn mpls mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ip IP-ADDRESS
```

Configure ipv6 address

Use this attribute to configure static MAC address of the host

This command is supported when following feature are enabled Sub Interface feature,NVO feature,IPV6 feature

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
   <access-interfaces>
   <access-interface>
      <access-if>access-if</access-if>
      <config>
         <access-if>access-if</access-if>
      </config>
      <ipv6-host-mac-mappings>
      <ipv6-host-mac-mapping> <!-- operation="delete"-->
         <ipv6-address>IPv6-ADDRESS</ipv6-address>
         <config>
            <ipv6-address>IPv6-ADDRESS</ipv6-address>
            <mac-address>XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</mac-
address>
         </config>
            <mac-address>CML_MAC_ADDR_T</mac-address>
      </ipv6-host-mac-mapping>
   </ipv6-host-mac-mappings>
   </access-interface>
   </access-interfaces>
   </interface>
   </interfaces>
   </evpn>
```

Command Syntax

```
    mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ipv6 IPv6-ADDRESS
```

Configure interfaces name

Reference to interface name

This command is supported when following feature are enabled Sub Interface feature,NVO feature,IPV6 feature

Attribute Name: name

Attribute Type: string

Attribute Name: access-if

Attribute Type: enum (access-if|access-if-evpn)

Attribute Name: mac-address

Attribute Type: string

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
   <interfaces>
   <interface> <!-- operation="delete"-->
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
```

```
<access-interfaces>
<access-interface>
   <access-if>access-if</access-if>
   <ipv6-host-mac-mappings>
   <ipv6-host-mac-mapping>
      <mac-address>CML_MAC_ADDR_T</mac-address>
         <ipv6-address>IPv6-ADDRESS</ipv6-address>
      </ipv6-host-mac-mapping>
   </ipv6-host-mac-mappings>
</access-interface>
</access-interfaces>
</interface>
</interfaces>
</evpn>
```

Command Syntax

```
evpn mpls mac (XX-XX-XX-XX-XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ipv6 IPv6-
  ADDRESS
```

Configure service type

Use this attribute to configure Vlan-Based EVPN-Service Type

Attribute Name: service-type

Attribute Type: enum (vlan-based|vlan-aware-bundle)

Netconf edit-config payload

```
<evpn xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ethernet-vpn">
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <service-type>vlan-based</service-type> <!-- operation="delete"-->
</vrf>
</vrfs>
</evpn>
```

Command Syntax

```
evpn-vlan-service (vlan-based|vlan-aware-bundle)
```

IPI-TFO

Configure admin status

Use this attribute to enable or disable trigger failover (TFO).TFO can be enabled only if the bridge mode is STP or RSTP.

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
<config>
   <admin-status>disable</admin-status> <!-- operation="delete"-->
</config>
</trigger-failover>
```

Command Syntax

```
 tfo (disable|enable)
```

Configure link type

Use this attribute to make a port an uplink or downlink.

Attribute Name: link-type

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
   <link-type>uplink</link-type> <!-- operation="delete"-->
</interface>
</interfaces>
</trigger-failover>
```

Command Syntax

```
 link-type (uplink|downlink)
```

Configure fog id

Use this attribute to Create or delete a failover group (FOG) on interface.

Attribute Name: fog-id

Attribute Type: uint32

Attribute Range: 1-64

Attribute Name: group-type

Attribute Type: enum (mpg|cpg)

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
```

```
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
<tfo-groups>
<tfo-group> <!-- operation="delete"-->
   <fog-id>1</fog-id>
   <config>
      <fog-id>1</fog-id>
      <group-type>mpg</group-type>
   </config>
</tfo-group>
</tfo-groups>
</interface>
</interfaces>
</trigger-failover>
```

Command Syntax

```
fog <1-64> type (mpg|cpg)
```

Configure group id

Use this attribute to Create or delete a failover group (FOG).

Attribute Name: group-id

Attribute Type: uint32

Attribute Range: 1-64

Attribute Name: admin-status

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
<failover-groups>
<failover-group> <!-- operation="delete"-->
   <group-id>1</group-id>
   <config>
      <group-id>1</group-id>
      <admin-status>disable</admin-status>
   </config>
</failover-group>
</failover-groups>
</trigger-failover>
```

Command Syntax

```
fog <1-64> (disable|enable)
```

Configure failover trigger count

Use this attribute to set the number of links to trigger failover for a Monitor Port Groups (MPG).

Attribute Name: failover-trigger-count

Attribute Type: uint32

Attribute Range: 0-63

Netconf edit-config payload

```
<trigger-failover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
<failover-groups>
<failover-group>
   <group-id>1</group-id>
   <config>
      <group-id>1</group-id>
   </config>
   <failover-trigger-count>0</failover-trigger-count> <!-- operation="delete"-->
</failover-group>
</failover-groups>
</trigger-failover>
```

Command Syntax

```
fog <1-64> tfc <0-63>
```

clear tfo counter

Netconf RPC payload

```
<tfo-clear-counters-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo"/>
```

Command Syntax

```
clear tfo counter
```

clear tfo counter fog <1-64>

Attribute Name: group-id

Attribute Type: uint32

Attribute Range: 1-64

Netconf RPC payload

```
<tfo-clear-fog-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tfo">
<group-id>1</group-id>
</tfo-clear-fog-counters>
```

Command Syntax

```
clear tfo counter fog <1-64>
```

IPI-LOGGING

Configure severity level

Use this attribute to set the severity level that a message for a specific module must reach before the messages is logged. Default value is 2-critical.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<logging-modules>
<module-logging>
   <module-name>auth</module-name>
   <config>
      <module-name>auth</module-name>
   </config>
   <severity-level>2</severity-level>
</module-logging>
</logging-modules>
</logging>
```

Command Syntax

```
 logging level
   (auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrib|nsm|onm|oam|ospf|ospf6|ptp
   |rip|pim|rib|vrrp|sflow|rsvp|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)
   ((0|1|2|3|4|5|6|7)|)
```

Configure enable logging

Use this attribute to set severity level of logging monitor. Default value is 7-debug-details.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 7

Attribute Name: enable-logging

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<monitor-logging>
<config>
   <enable-logging>enable</enable-logging> <!-- operation="delete"-->
   <severity-level>7</severity-level> <!-- operation="delete"-->
</config>
</monitor-logging>
```

```
</logging>
```

Command Syntax

```
 logging monitor ((disable)|) ((0|1|2|3|4|5|6|7)|)
```

Configure console-logging severity-level

Use this attribute to set severity level of logging console. Default value is 2-critical.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 2

Attribute Name: enable-logging

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<console-logging>
<config>
   <enable-logging>enable</enable-logging> <!-- operation="delete"-->
   <severity-level>2</severity-level> <!-- operation="delete"-->
</config>
</console-logging>
</logging>
```

Command Syntax

```
 logging console ((disable)|) ((0|1|2|3|4|5|6|7)|)
```

Configure max file size

Set size of the log file in bytes. Default value is 419430400 bytes.

Attribute Name: max-file-size

Attribute Type: uint32

Attribute Range: 4096-419430400

Attribute Name: file-name

Attribute Type: string

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<logfile>
<config>
   <file-name>LOGFILENAME</file-name> <!-- operation="delete"-->
   <severity-level>6</severity-level> <!-- operation="delete"-->
   <max-file-size>4096</max-file-size> <!-- operation="delete"-->
```

```
</config>
</logfile>
</logging>
```

Command Syntax

```
logging logfile LOGFILENAME (0|1|2|3|4|5|6|7) size <4096-419430400>
```

Configure file name

Use this attribute to set name of the logging file.

Attribute Name: file-name

Attribute Type: string

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<logfile>
<config>
   <severity-level>6</severity-level>
   <file-name>LOGFILENAME</file-name>
</config>
</logfile>
</logging>
```

Command Syntax

```
logging logfile LOGFILENAME (0|1|2|3|4|5|6|7)
```

Configure debug-logfile max-file-size

Set size of the debug log file in bytes. The default value is 4194304 bytes.

Attribute Name: max-file-size

Attribute Type: uint32

Attribute Range: 4096-4194304

Attribute Name: file-name

Attribute Type: string

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<debug-logfile>
<config>
   <file-name>LOGFILE</file-name>
   <max-file-size>4096</max-file-size>
</config>
</debug-logfile>
</logging>
```

Command Syntax

```
debug logfile LOGFILE size <4096-4194304>
```

Configure timestamp granularity

Use this attribute to set the logging timestamp granularity.

This command is supported when following feature are enabled syslog feature

Attribute Name: timestamp-granularity

Attribute Type: enum (none|microseconds|milliseconds|seconds)

Default Value: milliseconds

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<syslog>
<config>
   <timestamp-granularity>milliseconds</timestamp-granularity> <!--
operation="delete"-->
</config>
</syslog>
</logging>
```

Command Syntax

```
logging timestamp (none|microseconds|milliseconds|seconds|)
```

Configure cli timestamp

Use this attribute to display execution timestamp in show output

This command is supported when following feature are enabled syslog feature

Attribute Name: cli-timestamp

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<syslog>
<config>
   </cli-timestamp><!-- operation="delete"-->
</config>
</syslog>
</logging>
```

Command Syntax

```
cli timestamp
```

Configure disable all modules debug

Use this attribute to unset debug globally

Attribute Name: disable-all-modules-debug

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<global>
<config>
   </disable-all-modules-debug><!-- operation="delete"-->
</config>
</global>
</logging>
```

Command Syntax

```
no debug all
```

Configure enable

Use this attribute to enable a BDR feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<background-debug>
<config>
   </enable>
</config>
</background-debug>
</logging>
```

Command Syntax

```
background-debug
```

Configure buffer size

Use this attribute to set the BDR module internal buffer size in MB

Attribute Name: buffer-size

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-10

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<background-debug>
<config>
   <buffer-size>1</buffer-size> <!-- operation="delete"-->
</config>
```

```
</background-debug>
</logging>
```

Command Syntax

```
 buffer-size <1-10>
```

Configure module name

Use this attribute to set the module name of proccess to be logged.

Attribute Name: module-name

Attribute Type: enum (auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrib|nsm|onm|oam|ospf|ospf6|ptp|rip|pim|rib|vrrp|sflow|rsvp|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<background-debug>
<bdr-module-loggings>
<bdr-module-logging> <!-- operation="delete"-->
   <module-name>auth</module-name>
   <config>
      <module-name>auth</module-name>
   </config>
</bdr-module-logging>
</bdr-module-loggings>
</background-debug>
</logging>
```

Command Syntax

```
 log
   (auth|bgp|cmm|hostp|hsl|isis|ldp|lag|l2mrib|mstp|mrib|nsm|onm|oam|ospf|ospf6|ptp
   |rip|pim|rib|vrrp|sflow|rsvp|pserv|cml|ndd|ripng|vlog|all|synce|pcep|udld)
```

Configure bdr-module-logging severity-level

Use this attribute to set the severity level that a message for a specific module must reach before the messages is logged. Default value is 7.

Attribute Name: severity-level

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 7

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<background-debug>
<bdr-module-loggings>
<bdr-module-logging>
   <module-name>auth</module-name>
   <config>
```

```
        <module-name>auth</module-name>
      </config>
      <severity-level>7</severity-level> <!-- operation="delete"-->
  </bdr-module-logging>
  </bdr-module-loggings>
  </background-debug>
  </logging>
```

Command Syntax

```
 level (0|1|2|3|4|5|6|7)
```

Configure suppress non bdr logs

This feature indicates that the BDR debug is enabled and suppressed other logging

Attribute Name: suppress-non-bdr-logs

Attribute Type: empty

Netconf edit-config payload

```
  <logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
  <bdr-module-loggings>
  <bdr-module-logging>
     <module-name>auth</module-name>
     <config>
        <module-name>auth</module-name>
     </config>
     </suppress-non-bdr-logs><!-- operation="delete"-->
  </bdr-module-logging>
  </bdr-module-loggings>
  </background-debug>
  </logging>
```

Command Syntax

```
 suppress-non-bdr-logs
```

Configure disable suppress repeated logs

This attribute indicates repeated logs are suppressed for BDR

Attribute Name: disable-suppress-repeated-logs

Attribute Type: empty

Netconf edit-config payload

```
  <logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <background-debug>
  <bdr-module-loggings>
  <bdr-module-logging>
     <module-name>auth</module-name>
     <config>
```

```
          <module-name>auth</module-name>
       </config>
       </disable-suppress-repeated-logs><!-- operation="delete"-->
   </bdr-module-logging>
   </bdr-module-loggings>
   </background-debug>
   </logging>
```

Command Syntax

```
disable-suppress-repeated-logs
```

no debug all

Netconf RPC payload

```
       <terminal-debug-all-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
no debug all
```

clear debug logfile

Netconf RPC payload

```
       <logging-clear-debug-logfile xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
clear debug logfile
```

clear logging logfile

Netconf RPC payload

```
       <logging-clear-logging-logfile xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
clear logging logfile
```

remove file (techsupport) (all|FILENAME)

Attribute Name: file_type

Attribute Type: enum (techsupport)

Attribute Name: filename

Attribute Type: union

Netconf RPC payload

```
<remove-file xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<file_type>techsupport</file_type>
<filename>FILE_TYPE_T</filename>
</remove-file>
```

Command Syntax

```
remove file (techsupport) (all|FILENAME)
```

IPI-LOGGING-REMOTE

Configure enable

This attribute enables/disables the logging host debug.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<debug>
<config>
      </enable><!-- operation="delete"-->
</config>
</debug>
</logging>
```

Command Syntax

```
debug logging host
```

Configure enable rsyslog

Enable/disable the rsyslog feature

Attribute Name: enable-rsyslog

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<remote-logging>
<config>
      </enable-rsyslog><!-- operation="delete"-->
</config>
</remote-logging>
</logging>
```

Command Syntax

```
feature rsyslog
```

Configure port

Use this attribute to configure the syslog server UDP port. Default value is 514

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: port

Attribute Type: uint16

Attribute Range: 1024-65535

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<remote-logging>
<remote-servers>
<remote-server>
   <vrf>NAME</vrf>
   <config>
      <vrf>NAME</vrf>
   </config>
   <servers>
   <server>
      <address>A.B.C.D</address>
      <config>
         <address>1</address>
         <severity>7</severity> <!-- operation="delete"-->
      </config>
         <port>1024</port> <!-- operation="delete"-->
   </server>
</servers>
</remote-server>
</remote-servers>
</remote-logging>
</logging>
```

Command Syntax

```
logging remote server (A.B.C.D|X:X::X:X|HOSTNAME) ((0|1|2|3|4|5|6|7)|) port <1024-
  65535> (vrf (NAME|management)|)
```

Configure severity

This atribute is used to specify the kind of messages by severity level. The default value is debug-detail. The possible values for levels are as follows: [Operator] 0-emerg; 1-alert; 2-critical; 3-error; 4-notify; 5-info [Debug] 3-error; 4-warning; 5-notif; 6-debug-info; 7-debug-detail

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|6|7)

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<remote-logging>
<remote-servers>
<remote-server>
   <vrf>NAME</vrf>
   <config>
      <vrf>NAME</vrf>
   </config>
   <servers>
   <server>
      <address>A.B.C.D</address>
      <config>
         <address>1</address>
      </config>
         <severity>7</severity>
   </server>
</servers>
</remote-server>
</remote-servers>
</remote-logging>
</logging>
```

Command Syntax

```
logging remote server (A.B.C.D|X:X::X:X|HOSTNAME) ((0|1|2|3|4|5|6|7)|) (vrf
  (NAME|management)|)
```

Configure disable default instance

Use this attribute to prevent default rsyslog config from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<remote-logging>
<default-instance>
<config>
      </disable-default-instance><!-- operation="delete"-->
</config>
</default-instance>
</remote-logging>
</logging>
```

Command Syntax

```
logging remote disable-default
```

Configure remote server facility

This attribute is used to specify the facility level used by syslog messages. The default value is local7. The possible values are local0, local1, local2, local3, local4, local5, local6, local7 and user.

Attribute Name: remote-server-facility

Attribute Type: enum (local0|local1|local2|local3|local4|local5|local6|local7|user)

Default Value: local7

Netconf edit-config payload

```
   <logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
   <global>
   <config>
          <remote-server-facility>local7</remote-server-facility> <!--
operation="delete"-->
   </config>
   </global>
   </logging>
```

Command Syntax

```
    logging remote facility
      (local0|local1|local2|local3|local4|local5|local6|local7|user)
```

Configure remote authpriv facility

Enable/disable logging authpriv facility for remote syslog server.

Attribute Name: remote-authpriv-facility

Attribute Type: empty

Netconf edit-config payload

```
   <logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
   <global>
   <config>
          </remote-authpriv-facility><!-- operation="delete"-->
   </config>
   </global>
   </logging>
```

Command Syntax

```
    logging remote authpriv
```

IPI-LOGGING-CLI

Configure enable logging

Use this attribute to enable/disable CLI history logs. By default CLI history is enabled.

Attribute Name: enable-logging

Attribute Type: boolean

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<cli-logging>
<config>
       <enable-logging>true</enable-logging> <!-- operation="delete"-->
</config>
</cli-logging>
</logging>
```

Command Syntax

```
 logging cli
```

Configure cli-logging enable-logging

Use this attribute to enable/disable CLI history logs. By default CLI history is enabled.

Attribute Name: enable-logging

Attribute Type: boolean

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<cli-logging>
<config>
       <enable-logging>true</enable-logging> <!-- operation="delete"-->
</config>
</cli-logging>
</logging>
```

Command Syntax

```
 no logging cli
```

IPI-EVENT-MANAGER

Configure feature

Enable Event Manager

Attribute Name: feature

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
<config>
   <feature>disable</feature> <!-- operation="delete"-->
</config>
```

```
</event-manager>
```

Command Syntax

```
event-manager (disable|enable)
```

Configure event pattern

Pattern to match

Attribute Name: event-pattern

Attribute Type: string

Attribute Name: event-type

Attribute Type: enum (syslog)

Attribute Name: event-id

Attribute Type: string

Attribute Range: 4-128

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|all)

Default Value: all

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
<event-entries>
<event-entry>
   <event-name>NAME</event-name>
   <config>
      <event-name>WORD</event-name>
      <event-type>syslog</event-type>
      <event-id>EVENT-ID</event-id>
      <severity>all</severity>
   </config>
   <event-pattern>PATTERN</event-pattern>
</event-entry>
</event-entries>
</event-manager>
```

Command Syntax

```
event-manager event NAME type (syslog) EVENT-ID ({ severity (0|1|2|3|4|5|all)|
  pattern PATTERN }|)
```

Configure action script

Name of script

Attribute Name: action-script

Attribute Type: string

Attribute Range: 4-64

Attribute Name: action-type

Attribute Type: enum (script)

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
<action-entries>
<action-entry>
   <action-name>NAME</action-name>
   <config>
      <action-name>WORD</action-name>
      <action-type>script</action-type>
   </config>
   <action-script>SCRIPT</action-script>
</action-entry>
</action-entries>
</event-manager>
```

Command Syntax

```
event-manager action NAME type (script) SCRIPT
```

Configure action name

Name of action

Attribute Name: action-name

Attribute Type: string

Attribute Range: 2-32

Attribute Name: event-name

Attribute Type: string

Attribute Range: 2-32

Netconf edit-config payload

```
<event-manager xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-event-manager">
<policies>
<policy>
   <policy-name>NAME</policy-name>
   <config>
      <policy-name>NAME</policy-name>
      <event-name>NAME</event-name>
   </config>
   <action-name>NAME</action-name>
</policy>
</policies>
</event-manager>
```

Command Syntax

```
event-manager policy NAME event NAME action NAME
```

clear event-manager statistics all

Netconf RPC payload

```
       <event-manager-clear-statistics-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-event-manager"/>
```

Command Syntax

```
    clear event-manager statistics all
```

clear event-manager statistics policy NAME

Attribute Name: policy-name

Attribute Type: string

Netconf RPC payload

```
       <event-manager-clear-statistics-on-policy xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-event-manager">
       <policy-name>NAME</policy-name>
       </event-manager-clear-statistics-on-policy>
```

Command Syntax

```
    clear event-manager statistics policy NAME
```

IPI-LOGGING-FAULT-MANAGEMENT

Configure severity

Use this attribute to set the severity level for the SYSLOG messages that will be sent over SNMP traps. The Default value to this attribute is 3(error).

This command is supported when following feature are enabled VLOGD feature

Attribute Name: severity

Attribute Type: enum (0|1|2|3|4|5|6|7)

Default Value: 3

Netconf edit-config payload

```
   <logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
   <snmp-syslog>
   <config>
          <severity>3</severity> <!-- operation="delete"-->
   </config>
   </snmp-syslog>
   </logging>
```

Command Syntax

```
    logging snmp-traps (0|1|2|3|4|5|6|7)
```

Configure enable fault management

Enable Fault Management System

This command is supported when following feature are enabled FMS feature

Attribute Name: enable-fault-management

Attribute Type: uint8

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
<fault-management>
<config>
       </enable-fault-management><!-- operation="delete"-->
</config>
</fault-management>
</logging>
```

Command Syntax

```
fault-management enable
```

fault-management flush-db

Netconf RPC payload

```
      <ipi-logging-fault-management_logging-fms-flush-db xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-logging"/>
```

Command Syntax

```
fault-management flush-db
```

fault-management shelve ALARM-TYPE

Attribute Name: alarm-type

Attribute Type: string

Netconf RPC payload

```
      <ipi-logging-fault-management_logging-fms-shelve xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-logging">
      <alarm-type>ALARM-TYPE</alarm-type>
      </ipi-logging-fault-management_logging-fms-shelve>
```

Command Syntax

```
fault-management shelve ALARM-TYPE
```

fault-management close ACTIVE-ALARM-ID

Attribute Name: active-alarm-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-logging-fault-management_logging-fms-close xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-logging">
       <active-alarm-id>ACTIVE-ALARM-ID</active-alarm-id>
       </ipi-logging-fault-management_logging-fms-close>
```

Command Syntax

```
     fault-management close ACTIVE-ALARM-ID
```

IPI-DHCP

Configure disable dhcp feature

Disable the DHCP client and DHCP relay on the device.

Attribute Name: disable-dhcp-feature

Attribute Type: uint8

Netconf edit-config payload

```
    <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
    <global>
    <config>
       </disable-dhcp-feature><!-- operation="delete"-->
    </config>
    </global>
    </dhcp>
```

Command Syntax

```
     no feature dhcp
```

Configure template name

This attribute specifies the option82 template name

Attribute Name: template-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
    <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
    <option82-templates>
    <option82-template> <!-- operation="delete"-->
       <template-name>NAME</template-name>
       <config>
          <template-name>WORD</template-name>
       </config>
    </option82-template>
    </option82-templates>
```

```
</dhcp>
```

Command Syntax

```
ip dhcp option82-template (NAME|default)
```

Configure policy action

Use this attribute to set policy action

Attribute Name: policy-action

Attribute Type: enum (drop|keep|replace)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<option82-templates>
<option82-template>
   <template-name>NAME</template-name>
   <config>
      <template-name>WORD</template-name>
   </config>
   <policy-action>drop</policy-action> <!-- operation="delete"-->
</option82-template>
</option82-templates>
</dhcp>
```

Command Syntax

```
policy-action (drop|keep|replace)
```

Configure circuit id

Use this attribute to set circuit-id.

Attribute Name: circuit-id

Attribute Type: union

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<option82-templates>
<option82-template>
   <template-name>NAME</template-name>
   <config>
      <template-name>WORD</template-name>
   </config>
   <circuit-id>hostname-interface-vlanname</circuit-id> <!-- operation="delete"-->
</option82-template>
</option82-templates>
</dhcp>
```

Command Syntax

```
circuit-id (hostname-interface-vlanname|hostname-relayinterface|interface-
  vlanname|WORD)
```

Configure remote id

Use this attribute to set remote-id

Attribute Name: remote-id

Attribute Type: union

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<option82-templates>
<option82-template>
   <template-name>NAME</template-name>
   <config>
      <template-name>WORD</template-name>
   </config>
   <remote-id>hostname</remote-id> <!-- operation="delete"-->
</option82-template>
</option82-templates>
</dhcp>
```

Command Syntax

```
remote-id (hostname|WORD)
```

IPI-RADIUS

Configure vrf name

VRF Name associated with this instance

This command is supported when following feature are enabled aaa feature

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
```

```
      <config>
         <vrf-name>management</vrf-name>
         <key-type>0</key-type> <!-- operation="delete"-->
         <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
      </config>
   </vrf>
   </vrfs>
   </radius>
```

Command Syntax

```
radius-server login key (0|7) WORD (vrf (management|NAME)|)
```

Configure timeout

VRF Name associated with this instance

This command is supported when following feature are enabled aaa feature

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: timeout

Attribute Type: uint8

Attribute Range: 3-60

Netconf edit-config payload

```
   <radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
         <timeout>3</timeout> <!-- operation="delete"-->
      </config>
   </vrf>
   </vrfs>
   </radius>
```

Command Syntax

```
radius-server login timeout <3-60> (vrf (management|NAME)|)
```

Configure sequence number

Use this attribute to set the sequence-number/priority index for the RADIUS server

This command is supported when following feature are enabled aaa feature

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
   </config>
      <sequence-number>1</sequence-number>
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8>
```

Configure secret key string

Shared key used between the authentication-server and the device

This command is supported when following feature are enabled aaa feature

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
```

```
    <host-address>A.B.C.D</host-address>
    <config>
       <host-address>A.B.C.D</host-address>
       <sequence-number>1</sequence-number> <!-- operation="delete"-->
       <key-type>0</key-type> <!-- operation="delete"-->
    </config>
       <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD
```

Configure accounting port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
```

```
        <key-type>0</key-type> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
    </config>
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD acct-port <0-65535>
```

Configure host address

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
```

```
    <config>
       <host-address>A.B.C.D</host-address>
       <sequence-number>1</sequence-number> <!-- operation="delete"-->
       <key-type>0</key-type> <!-- operation="delete"-->
       <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
       <accounting-port>0</accounting-port> <!-- operation="delete"-->
    </config>
       <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD acct-port <0-65535> timeout <3-60>
```

Configure authentication port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS authentication messages

This command is supported when following feature are enabled aaa feature

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
```

```
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <key-type>0</key-type> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
    </config>
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD auth-port <0-65535>
```

Configure key type

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
```

```
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <key-type>0</key-type> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
    </config>
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD auth-port <0-65535> acct-port <0-65535>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
```

```
    <vrf-name>management</vrf-name>
    <config>
       <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
       <host-address>A.B.C.D</host-address>
       <sequence-number>1</sequence-number> <!-- operation="delete"-->
       <key-type>0</key-type> <!-- operation="delete"-->
       <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
       <authentication-port>0</authentication-port> <!-- operation="delete"-->
       <accounting-port>0</accounting-port> <!-- operation="delete"-->
    </config>
       <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD auth-port <0-65535> acct-port <0-65535> timeout <3-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
      <key-type>0</key-type> <!-- operation="delete"-->
      <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
      <authentication-port>0</authentication-port> <!-- operation="delete"-->
   </config>
      <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD auth-port <0-65535> timeout <3-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
      <key-type>0</key-type> <!-- operation="delete"-->
      <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
   </config>
      <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD timeout <3-60>
```

Configure server authentication-port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS authentication messages

This command is supported when following feature are enabled aaa feature

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
```

```
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
   </config>
      <authentication-port>0</authentication-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> auth-port <0-65535>
```

Configure server accounting-port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
```

```
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
    </config>
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> auth-port <0-65535> acct-port <0-65535>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
    </config>
        <timeout>3</timeout> <!-- operation="delete"-->
</server>
```

```
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> auth-port <0-65535> timeout <3-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: authentication-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <authentication-port>0</authentication-port> <!-- operation="delete"-->
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
    </config>
        <timeout>3</timeout> <!-- operation="delete"-->
```

```
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> auth-port <0-65535> acct-port <0-65535> timeout <3-60>
```

Configure server accounting-port

Use this attribute to configure a RADIUS server and specify a UDP port to use for RADIUS accounting messages

This command is supported when following feature are enabled aaa feature

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
   </config>
      <accounting-port>0</accounting-port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> acct-port <0-65535>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: accounting-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <accounting-port>0</accounting-port> <!-- operation="delete"-->
    </config>
        <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> acct-port <0-65535> timeout <3-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled aaa feature

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 3-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
   </config>
      <timeout>3</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> timeout <3-60>
```

Configure enable

This attribute is to enable/disable RADIUS debug logging

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius">
<debug>
<config>
   </enable><!-- operation="delete"-->
```

```
</config>
</debug>
</radius>
```

Command Syntax

```
debug radius
```

clear radius-server counters (vrf (management|NAME)|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<radius-clear-all-server-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-radius">
<vrf-name>management</vrf-name>
</radius-clear-all-server-counters>
```

Command Syntax

```
clear radius-server counters (vrf (management|NAME)|)
```

clear radius-server host (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf (management|NAME|all)|)

Attribute Name: hostname

Attribute Type: union

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
<radius-clear-server-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
radius">
<hostname>A.B.C.D</hostname>
<vrf-name>management</vrf-name>
</radius-clear-server-counters>
```

Command Syntax

```
clear radius-server host (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf
  (management|NAME|all)|)
```

debug radius

Netconf RPC payload

```
<radius-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
radius"/>
```

Command Syntax

```
debug radius
```

no debug radius

Netconf RPC payload

```
<radius-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-radius"/>
```

Command Syntax

```
no debug radius
```

IPI-USER-MANAGEMENT

Configure enable

Use this attribute to enable user management debugging information.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<debug>
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
</user-management>
```

Command Syntax

```
debug user-mgmt
```

Configure password hashing algorithm

Use this attribute to set the hash algorithm for username configurations

Attribute Name: password-hashing-algorithm

Attribute Type: enum (md5|sha-256|sha-512)

Default Value: sha-512

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<hashing>
<config>
   <password-hashing-algorithm>sha-512</password-hashing-algorithm> <!-- operation="delete"-->
```

```
</config>
</hashing>
</user-management>
```

Command Syntax

```
user password encryption default (md5|sha-256|sha-512)
```

Configure disable default user

Use this attribute to prevent default user from being enabled at start up

Attribute Name: disable-default-user

Attribute Type: empty

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<global>
<config>
   </disable-default-user><!-- operation="delete"-->
</config>
</global>
</user-management>
```

Command Syntax

```
username disable-default
```

Configure username

Login name of the user

Attribute Name: username

Attribute Type: string

Attribute Range: 2-32

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user> <!-- operation="delete"-->
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
   </config>
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME
```

Configure role

Use this attribute to set the user role. Operations that an user is allowed to perform are determined based on the role

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
   </config>
   <role>network-admin</role> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME role (network-admin|network-engineer|network-operator|network-
  user)
```

Configure password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 8-32

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
      <role>network-admin</role> <!-- operation="delete"-->
   </config>
   <password>PASSWORD</password> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME role (network-admin|network-engineer|network-operator|network-
  user) password PASSWORD
```

Configure password hashed

Use this attribute to specify user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: password-hashed

Attribute Type: string

Attribute Range: 26-106

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
      <role>network-admin</role> <!-- operation="delete"-->
   </config>
   <password-hashed>PASSWORD</password-hashed> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME role (network-admin|network-engineer|network-operator|network-
  user) password encrypted PASSWORD
```

Configure rbac role

Use this attribute to set the user role. Operations that an user is allowed to perform are determined based on the role

Attribute Name: rbac-role

Attribute Type: string

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
   </config>
```

```
    <rbac-role>ROLE-NAME</rbac-role> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME role ROLE-NAME
```

Configure user password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 8-32

Attribute Name: rbac-role

Attribute Type: string

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
    <username>USERNAME</username>
    <config>
        <username>USERNAME</username>
        <rbac-role>ROLE-NAME</rbac-role> <!-- operation="delete"-->
    </config>
    <password>PASSWORD</password> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME role ROLE-NAME password PASSWORD
```

Configure user password-hashed

Use this attribute to specify user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: password-hashed

Attribute Type: string

Attribute Range: 26-106

Attribute Name: rbac-role

Attribute Type: string

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
      <rbac-role>ROLE-NAME</rbac-role> <!-- operation="delete"-->
   </config>
   <password-hashed>PASSWORD</password-hashed> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME role ROLE-NAME password encrypted PASSWORD
```

Configure user password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 8-32

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
   </config>
   <password>PASSWORD</password> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
username USERNAME password PASSWORD
```

Configure user password-hashed

Use this attribute to specify user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: password-hashed

Attribute Type: string

Attribute Range: 26-106

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
<user>
   <username>USERNAME</username>
   <config>
      <username>USERNAME</username>
   </config>
   <password-hashed>PASSWORD</password-hashed> <!-- operation="delete"-->
</user>
</users>
</user-management>
```

Command Syntax

```
 username USERNAME password encrypted PASSWORD
```

Configure root password

Use this attribute to change root user password.

Attribute Name: root-password

Attribute Type: string

Attribute Range: 8-32

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<rootpassword>
<config>
   <root-password>PASSWORD</root-password> <!-- operation="delete"-->
</config>
</rootpassword>
</user-management>
```

Command Syntax

```
 root password PASSWORD
```

Configure root password hashed

Use this attribute to specify root user password in encrypted form. This option is provided for reconfiguring a user password using an earlier encrypted password that was available in running configuration display or get-config payload. Users are advised not to use this option for entering passwords generated in any other method

Attribute Name: root-password-hashed

Attribute Type: string

Attribute Range: 26-106

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<rootpassword>
<config>
   <root-password-hashed>PASSWORD</root-password-hashed> <!-- operation="delete"-->
</config>
</rootpassword>
</user-management>
```

Command Syntax

```
root password encrypted PASSWORD
```

debug user-mgmt

Netconf RPC payload

```
      <user-management-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-user-management"/>
```

Command Syntax

```
debug user-mgmt
```

no debug user-mgmt

Netconf RPC payload

```
      <user-management-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-user-management"/>
```

Command Syntax

```
no debug user-mgmt
```

IPI-SSH

Configure enable

Use this attribute to enable ssh debugging configurations

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<debug>
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
```

```
</ssh-server>
```

Command Syntax

```
debug ssh server
```

Configure vrf name

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      </enable><!-- operation="delete"-->
   </config>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
feature ssh (vrf (NAME|management)|)
```

Configure port

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      <port>1024</port> <!-- operation="delete"-->
```

```
    </config>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh server port <1024-65535> (vrf (NAME|management)|)
```

Configure max login attempts

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: max-login-attempts

Attribute Type: uint8

Default Value: 3

Attribute Range: 1-3

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
    <vrf-name>NAME</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
        <max-login-attempts>1</max-login-attempts> <!-- operation="delete"-->
    </config>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh login-attempts <1-3> (vrf (NAME|management)|)
```

Configure session limit

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: session-limit

Attribute Type: uint8

Attribute Range: 1-40

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
```

```
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      <session-limit>1</session-limit> <!-- operation="delete"-->
   </config>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh server session-limit <1-40> (vrf (NAME|management)|)
```

Configure default algorithm

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: default-algorithm

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      </default-algorithm><!-- operation="delete"-->
   </config>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh server default algorithm (vrf (NAME|management)|)
```

Configure chacha20 poly1305

Use this attribute to set the ChaCha20-Poly1305 Cipher

This command is supported when following feature are enabled ssh server feature

Attribute Name: chacha20-poly1305

Attribute Type: empty

Attribute Name: aes128-ctr

Attribute Type: empty

Attribute Name: aes192-ctr

Attribute Type: empty

Attribute Name: aes256-ctr

Attribute Type: empty

Attribute Name: aes128-cbc

Attribute Type: empty

Attribute Name: aes192-cbc

Attribute Type: empty

Attribute Name: aes256-cbc

Attribute Type: empty

Attribute Name: triple-des-cbc

Attribute Type: empty

Attribute Name: aes128-gcm

Attribute Type: empty

Attribute Name: aes256-gcm

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<encryption-algorithms>
<config>
       </aes128-ctr><!-- operation="delete"-->
       </aes192-ctr><!-- operation="delete"-->
       </aes256-ctr><!-- operation="delete"-->
       </aes128-cbc><!-- operation="delete"-->
       </aes192-cbc><!-- operation="delete"-->
       </aes256-cbc><!-- operation="delete"-->
       </triple-des-cbc><!-- operation="delete"-->
       </aes128-gcm><!-- operation="delete"-->
       </aes256-gcm><!-- operation="delete"-->
       </chacha20-poly1305><!-- operation="delete"-->
</config>
</encryption-algorithms>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh server algorithm encryption { aes128-ctr| aes192-ctr| aes256-ctr| aes128-cbc|
  aes192-cbc| aes256-cbc| 3des-cbc| aes128-gcm| aes256-gcm| chacha20-poly1305 }
  (vrf (NAME|management)|)
```

Configure sntrup761x25519 sha512 openssh

Use this attribute to set the sntrup761x25519 SHA512 @openssh algorithm

This command is supported when following feature are enabled ssh server feature

Attribute Name: sntrup761x25519-sha512-openssh

Attribute Type: empty

Attribute Name: diffie-hellman-group1-sha1

Attribute Type: empty

Attribute Name: diffie-hellman-group14-sha1

Attribute Type: empty

Attribute Name: diffie-hellman-group14-sha256

Attribute Type: empty

Attribute Name: diffie-hellman-group16-sha512

Attribute Type: empty

Attribute Name: diffie-hellman-group18-sha512

Attribute Type: empty

Attribute Name: diffie-hellman-group-exchange-sha1

Attribute Type: empty

Attribute Name: diffie-hellman-group-exchange-sha256

Attribute Type: empty

Attribute Name: ecdh-sha2-nistp256

Attribute Type: empty

Attribute Name: ecdh-sha2-nistp384

Attribute Type: empty

Attribute Name: ecdh-sha2-nistp521

Attribute Type: empty

Attribute Name: curve25519-sha256

Attribute Type: empty

Attribute Name: curve25519-sha256-libssh-org

Attribute Type: empty

Attribute Name: sntrup761x25519-sha512

Attribute Type: empty

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Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<kex-algorithms>
<config>
       </diffie-hellman-group1-sha1><!-- operation="delete"-->
       </diffie-hellman-group14-sha1><!-- operation="delete"-->
       </diffie-hellman-group14-sha256><!-- operation="delete"-->
       </diffie-hellman-group16-sha512><!-- operation="delete"-->
       </diffie-hellman-group18-sha512><!-- operation="delete"-->
       </diffie-hellman-group-exchange-sha1><!-- operation="delete"-->
       </diffie-hellman-group-exchange-sha256><!-- operation="delete"-->
       </ecdh-sha2-nistp256><!-- operation="delete"-->
       </ecdh-sha2-nistp384><!-- operation="delete"-->
       </ecdh-sha2-nistp521><!-- operation="delete"-->
       </curve25519-sha256><!-- operation="delete"-->
       </curve25519-sha256-libssh-org><!-- operation="delete"-->
       </sntrup761x25519-sha512><!-- operation="delete"-->
       </sntrup761x25519-sha512-openssh><!-- operation="delete"-->
</config>
</kex-algorithms>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh server algorithm kex { diffie-hellman-group1-sha1| diffie-hellman-group14-sha1|
  diffie-hellman-group14-sha256| diffie-hellman-group16-sha512| diffie-hellman-
  group18-sha512| diffie-hellman-group-exchange-sha1| diffie-hellman-group-
  exchange-sha256| ecdh-sha2-nistp256| ecdh-sha2-nistp384| ecdh-sha2-nistp521|
  curve25519-sha256| curve25519-sha256-libssh-org| sntrup761x25519-sha512|
  sntrup761x25519-sha512-openssh } (vrf (NAME|management)|)
```

Configure umac 128 etm

Use this attribute to set the UMAC-128-ETM @openssh.com MAC

This command is supported when following feature are enabled ssh server feature

Attribute Name: umac-128-etm

Attribute Type: empty

Attribute Name: hmac-sha1

Attribute Type: empty

Attribute Name: hmac-sha1-96

Attribute Type: empty

Attribute Name: hmac-sha2-256

Attribute Type: empty

Attribute Name: hmac-sha2-512

Attribute Type: empty

Attribute Name: hmac-md5

Attribute Type: empty

Attribute Name: hmac-md5-96

Attribute Type: empty

Attribute Name: umac-64

Attribute Type: empty

Attribute Name: umac-128

Attribute Type: empty

Attribute Name: hmac-sha1-etm

Attribute Type: empty

Attribute Name: hmac-sha1-96-etm

Attribute Type: empty

Attribute Name: hmac-sha2-256-etm

Attribute Type: empty

Attribute Name: hmac-sha2-512-etm

Attribute Type: empty

Attribute Name: hmac-md5-etm

Attribute Type: empty

Attribute Name: hmac-md5-96-etm

Attribute Type: empty

Attribute Name: umac-64-etm

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<mac-algorithms>
<config>
       </hmac-sha1><!-- operation="delete"-->
       </hmac-sha1-96><!-- operation="delete"-->
```

```
        </hmac-sha2-256><!-- operation="delete"-->
        </hmac-sha2-512><!-- operation="delete"-->
        </hmac-md5><!-- operation="delete"-->
        </hmac-md5-96><!-- operation="delete"-->
        </umac-64><!-- operation="delete"-->
        </umac-128><!-- operation="delete"-->
        </hmac-sha1-etm><!-- operation="delete"-->
        </hmac-sha1-96-etm><!-- operation="delete"-->
        </hmac-sha2-256-etm><!-- operation="delete"-->
        </hmac-sha2-512-etm><!-- operation="delete"-->
        </hmac-md5-etm><!-- operation="delete"-->
        </hmac-md5-96-etm><!-- operation="delete"-->
        </umac-64-etm><!-- operation="delete"-->
        </umac-128-etm><!-- operation="delete"-->
</config>
</mac-algorithms>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh server algorithm mac { hmac-sha1| hmac-sha1-96| hmac-sha2-256| hmac-sha2-512|
  hmac-md5| hmac-md5-96| umac-64| umac-128| hmac-sha1-etm| hmac-sha1-96-etm| hmac-
  sha2-256-etm| hmac-sha2-512-etm| hmac-md5-etm| hmac-md5-96-etm| umac-64-etm|
  umac-128-etm } (vrf (NAME|management)|)
```

Configure ssh rsa

Use this attribute to set the ssh-rsa host key algorithm

This command is supported when following feature are enabled ssh server feature

Attribute Name: ssh-rsa

Attribute Type: empty

Attribute Name: ssh-ed25519

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<host-key-algorithms>
<config>
       </ssh-ed25519><!-- operation="delete"-->
       </ssh-rsa><!-- operation="delete"-->
</config>
```

```
</host-key-algorithms>
</vrf>
</vrfs>
</ssh-server>
```

Command Syntax

```
ssh server algorithm hostkey { ssh-ed25519| ssh-rsa } (vrf (NAME|management)|)
```

Configure disable default instance

Use this attribute to prevent default ssh config from being enabled at start up

This command is supported when following feature are enabled ssh server feature

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<default-instance>
<config>
   </disable-default-instance><!-- operation="delete"-->
</config>
</default-instance>
</ssh-server>
```

Command Syntax

```
ssh server disable-default
```

Configure public key

Use this attribute to set the ssh public-key

Attribute Name: public-key

Attribute Type: string

Netconf edit-config payload

```
<user-management xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-management">
<users>
   <user>
      <username>USERNAME</username>
      <config>
         <username>USERNAME</username>
      </config>
      <ssh-keys xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
      <config>
            <public-key>LINE</public-key> <!-- operation="delete"-->
      </config>
   </ssh-keys>
</user>
```

```
</users>
</user-management>
```

Command Syntax

```
username USERNAME sshkey LINE
```

debug ssh server

Netconf RPC payload

```
<ssh-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh"/>
```

Command Syntax

```
debug ssh server
```

no debug ssh server

Netconf RPC payload

```
<ssh-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh"/>
```

Command Syntax

```
no debug ssh server
```

clear ssh hosts

Netconf RPC payload

```
<ssh-clear-hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh"/>
```

Command Syntax

```
clear ssh hosts
```

ssh keygen host dsa (vrf (NAME|management)|) (force|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-server-dsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ssh">
<vrf-name>NAME</vrf-name>
<force>true</force/>
</ssh-generate-server-dsa-key>
```

Command Syntax

```
ssh keygen host dsa (vrf (NAME|management)|) (force|)
```

ssh keygen host rsa (length <1024-4096>|) (vrf (NAME|management)|) (force|)

Attribute Name: length

Attribute Type: uint32

Default Value: 2048

Attribute Range: 1024-4096

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
      <ssh-generate-server-rsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ssh">
      <length>2048</length>
      <vrf-name>NAME</vrf-name>
      <force>true</force/>
      </ssh-generate-server-rsa-key>
```

Command Syntax

```
ssh keygen host rsa (length <1024-4096>|) (vrf (NAME|management)|) (force|)
```

ssh keygen host ecdsa (length (256|384|521)|) (vrf (NAME|management)|) (force|)

Attribute Name: length

Attribute Type: enum (256|384|521)

Default Value: 521

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
      <ssh-generate-server-ecdsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ssh">
```

```
<length>521</length>
<vrf-name>NAME</vrf-name>
<force>true</force/>
</ssh-generate-server-ecdsa-key>
```

Command Syntax

```
ssh keygen host ecdsa (length (256|384|521)|) (vrf (NAME|management)|) (force|)
```

ssh keygen host ed25519 (vrf (NAME|management)|) (force|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-server-ed25519-key xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-ssh">
<vrf-name>NAME</vrf-name>
<force>true</force/>
</ssh-generate-server-ed25519-key>
```

Command Syntax

```
ssh keygen host ed25519 (vrf (NAME|management)|) (force|)
```

clear ssh host-key ((dsa|rsa|ecdsa|ed25519)|) (vrf (NAME|management)|)

Attribute Name: type

Attribute Type: enum (all-keys|dsa|rsa|ecdsa|ed25519)

Default Value: all-keys

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<ssh-clear-server-keys xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<type>all-keys</type>
<vrf-name>NAME</vrf-name>
</ssh-clear-server-keys>
```

Command Syntax

```
clear ssh host-key ((dsa|rsa|ecdsa|ed25519)|) (vrf (NAME|management)|)
```

username USERNAME keypair rsa (length <1024-4096>|) (force|)

Attribute Name: user-name

Attribute Type: string

Attribute Name: length

Attribute Type: uint32

Default Value: 4096

Attribute Range: 1024-4096

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-user-rsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<user-name>USERNAME</user-name>
<length>4096</length>
<force>true</force/>
</ssh-generate-user-rsa-key>
```

Command Syntax

```
username USERNAME keypair rsa (length <1024-4096>|) (force|)
```

username USERNAME keypair dsa (force|)

Attribute Name: user-name

Attribute Type: string

Attribute Name: force

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
<ssh-generate-user-dsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<user-name>USERNAME</user-name>
<force>true</force/>
</ssh-generate-user-dsa-key>
```

Command Syntax

```
username USERNAME keypair dsa (force|)
```

clear ssh keypair user USERNAME

Attribute Name: user-name

Attribute Type: string

Netconf RPC payload

```
<ssh-clear-user-keys xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
<user-name>USERNAME</user-name>
</ssh-clear-user-keys>
```

Command Syntax

```
clear ssh keypair user USERNAME
```

IPI-TELNET

Configure enable

Use this attribute to enable telnet debugging configurations

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
<debug>
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
</telnet-server>
```

Command Syntax

```
debug telnet server
```

Configure vrf name

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      </enable><!-- operation="delete"-->
   </config>
```

```
</vrf>
</vrfs>
</telnet-server>
```

Command Syntax

```
feature telnet (vrf (NAME|management)|)
```

Configure port

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1024-65535

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      <port>1024</port> <!-- operation="delete"-->
   </config>
</vrf>
</vrfs>
</telnet-server>
```

Command Syntax

```
telnet server port <1024-65535> (vrf (NAME|management)|)
```

Configure session limit

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: session-limit

Attribute Type: uint8

Attribute Range: 1-40

Netconf edit-config payload

```
<telnet-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-telnet">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
```

```
      <config>
         <vrf-name>NAME</vrf-name>
         <session-limit>1</session-limit> <!-- operation="delete"-->
      </config>
   </vrf>
   </vrfs>
   </telnet-server>
```

Command Syntax

```
    telnet server session-limit <1-40> (vrf (NAME|management)|)
```

debug telnet server

Netconf RPC payload

```
      <telnet-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
telnet"/>
```

Command Syntax

```
    debug telnet server
```

no debug telnet server

Netconf RPC payload

```
      <telnet-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
telnet"/>
```

Command Syntax

```
    no debug telnet server
```

IPI-NTP

Configure disable ntp

Use this attribute to enable or disable NTP server

Attribute Name: disable-ntp

Attribute Type: uint8

Netconf edit-config payload

```
   <ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
      </disable-ntp><!-- operation="delete"-->
```

```
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
no ntp enable (vrf (management|NAME)|)
```

Configure vrf name

Use this attribute to specify the vrf for which ntp feature is enabled

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: feature-enable

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
      </feature-enable><!-- operation="delete"-->
   </config>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
feature ntp (vrf (management|NAME)|)
```

Configure enable logging

Use this attribute to specify the vrf for which ntp feature is enabled

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enable-logging

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
```

```
        </enable-logging><!-- operation="delete"-->
      </config>
   </vrf>
   </vrfs>
   </ntp>
```

Command Syntax

```
ntp logging (vrf (management|NAME)|)
```

Configure enable local master

Use this attribute to configure the device as an NTP server.

Attribute Name: enable-local-master

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<ref-clock-master>
<config>
       </enable-local-master>
</config>
</ref-clock-master>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp master (vrf (management|NAME)|)
```

Configure local stratum

Use this attribute to configure stratum level for a NTP server.

Attribute Name: local-stratum

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
```

```
      <config>
         <vrf-name>management</vrf-name>
      </config>
   <ref-clock-master>
   <config>
         <local-stratum>1</local-stratum> <!-- operation="delete"-->
   </config>
   </ref-clock-master>
   </vrf>
   </vrfs>
   </ntp>
```

Command Syntax

```
ntp master stratum <1-15> (vrf (management|NAME)|)
```

Configure enable ntp auth

Use this attribute to enable NTP authentication.

Attribute Name: enable-ntp-auth

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<authentication>
<config>
      </enable-ntp-auth><!-- operation="delete"-->
</config>
</authentication>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp authenticate (vrf (management|NAME)|)
```

Configure ntp trusted keys

Use this attribute to configure one or more trusted authentication keys. If a key is trusted, the device will synchronize with a system that specifies this key in its NTP packets

Attribute Name: ntp-trusted-keys

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<authentication>
<config>
      <ntp-trusted-keys>1</ntp-trusted-keys> <!-- operation="delete"-->
</config>
</authentication>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp trusted-key <1-65535> (vrf (management|NAME)|)
```

Configure ntp request key

Use this to attribute to configure request key which shall be used as password for ntpdc utility.

Attribute Name: ntp-request-key

Attribute Type: uint32

Attribute Range: 1-65534

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<authentication>
<config>
      <ntp-request-key>1</ntp-request-key> <!-- operation="delete"-->
</config>
</authentication>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp request-key <1-65534> (vrf (management|NAME)|)
```

Configure key id

Use this attribute to set an NTP authentication key.

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: key-value

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (0|7)

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<authentication>
<ntp-keys>
<ntp-key> <!-- operation="delete"-->
   <key-id>1</key-id>
   <config>
      <key-id>1</key-id>
      <key-value>WORD</key-value>
      <key-type>1</key-type>
   </config>
</ntp-key>
</ntp-keys>
</authentication>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp authentication-key <1-65535> md5 WORD 7 (vrf (management|NAME)|)
```

Configure key value

Use this attribute to set an NTP authentication key.

Attribute Name: key-id

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: key-value

Attribute Type: string

Attribute Name: key-type

Attribute Type: enum (0|7)

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<authentication>
<ntp-keys>
<ntp-key> <!-- operation="delete"-->
   <key-id>1</key-id>
   <config>
      <key-id>1</key-id>
      <key-value>WORD</key-value>
      <key-type>0</key-type>
   </config>
</ntp-key>
</ntp-keys>
</authentication>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp authentication-key <1-65535> md5 WORD (vrf (management|NAME)|)
```

Configure prefer

preferred NTP server/peer

Attribute Name: prefer

Attribute Type: empty

Attribute Name: auth-key

Attribute Type: uint32

Default Value: 65535

Attribute Range: 1-65535

Attribute Name: minpoll

Attribute Type: uint16

Default Value: 4

Attribute Range: 4-16

Attribute Name: maxpoll

Attribute Type: uint16

Default Value: 6

Attribute Range: 4-16

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<servers>
<server>
   <server-address>A.B.C.D</server-address>
   <config>
      <server-address>A.B.C.D</server-address>
      <auth-key>1</auth-key> <!-- operation="delete"-->
      <minpoll>4</minpoll> <!-- operation="delete"-->
      <maxpoll>4</maxpoll> <!-- operation="delete"-->
   </config>
      </prefer><!-- operation="delete"-->
</server>
</servers>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp server (A.B.C.D|X:X::X:X|HOSTNAME) { key <1-65535>| minpoll <4-16>| maxpoll <4-
  16>| prefer } (vrf (management|NAME)|)
```

Configure server address

Use this attribute to set the NTP server IP address or hostname

Attribute Name: server-address

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<servers>
```

```
<server>
   <server-address>A.B.C.D</server-address>
   <config>
      <server-address>A.B.C.D</server-address>
   </config>
</server>
</servers>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp server (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|)
```

Configure peer address

preferred NTP server/peer

Attribute Name: prefer

Attribute Type: empty

Attribute Name: auth-key

Attribute Type: uint32

Default Value: 65535

Attribute Range: 1-65535

Attribute Name: minpoll

Attribute Type: uint16

Default Value: 4

Attribute Range: 4-16

Attribute Name: maxpoll

Attribute Type: uint16

Default Value: 6

Attribute Range: 4-16

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<peers>
<peer>
   <peer-address>A.B.C.D</peer-address>
   <config>
```

```
        <peer-address>A.B.C.D</peer-address>
        <auth-key>1</auth-key> <!-- operation="delete"-->
        <minpoll>4</minpoll> <!-- operation="delete"-->
        <maxpoll>4</maxpoll> <!-- operation="delete"-->
     </config>
        </prefer><!-- operation="delete"-->
</peer>
</peers>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp peer (A.B.C.D|X:X::X:X|HOSTNAME) { key <1-65535>| minpoll <4-16>| maxpoll <4-
  16>| prefer } (vrf (management|NAME)|)
```

Configure peer peer-address

Use this attribute to set the NTP peer IP address or hostname

Attribute Name: peer-address

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<peers>
<peer>
   <peer-address>A.B.C.D</peer-address>
   <config>
      <peer-address>A.B.C.D</peer-address>
   </config>
</peer>
</peers>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp peer (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|)
```

Configure minimum pkt spacing

Use this attribute to specify the minimum packet spacing to be permitted

Attribute Name: minimum-pkt-spacing

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<rate-limiting>
<config>
       <minimum-pkt-spacing>1</minimum-pkt-spacing> <!-- operation="delete"-->
</config>
</rate-limiting>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
 ntp discard { minimum <1-65535> } (vrf (management|NAME)|)
```

Configure netmask

use this attribute to specify the allowed NTP client IP network mask

Attribute Name: netmask

Attribute Type: union

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<access-control-entries>
<access-control-entry>
   <client-ip-address>CML_IP_ADDR_T</client-ip-address>
   <config>
      <client-ip-address>CML_IP_ADDR_T</client-ip-address>
   </config>
      <netmask>NTP_CLIENT_IP_NET_MASK_T</netmask>
```

```
</access-control-entry>
</access-control-entries>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp allow (A.B.C.D|X:X::X:X) mask (A.B.C.D|<1-128>) (vrf (management|NAME)|)
```

Configure access options

use this attribute to specify the allowed access options for NTP client

Attribute Name: access-options

Attribute Type: bits (kod|nopeer|noserve|noquery|nomodify|notrap|limited)

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<access-control-entries>
<access-control-entry>
   <client-ip-address>CML_IP_ADDR_T</client-ip-address>
   <config>
      <client-ip-address>CML_IP_ADDR_T</client-ip-address>
   </config>
      <access-options>kod</access-options> <!-- operation="delete"-->
</access-control-entry>
</access-control-entries>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp allow {kod|nopeer|noserve|noquery|nomodify|notrap|limited} (vrf
  (management|NAME)|)
```

Configure client ip address

use this attribute to specify the allowed access options for NTP client

Attribute Name: access-options

Attribute Type: bits (kod|nopeer|noserve|noquery|nomodify|notrap|limited)

Attribute Name: netmask

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<access-control-entries>
<access-control-entry>
   <client-ip-address>CML_IP_ADDR_T</client-ip-address>
   <config>
      <client-ip-address>CML_IP_ADDR_T</client-ip-address>
      <netmask>NTP_CLIENT_IP_NET_MASK_T</netmask>
   </config>
      <access-options>kod</access-options> <!-- operation="delete"-->
</access-control-entry>
</access-control-entries>
</vrf>
</vrfs>
</ntp>
```

Command Syntax

```
ntp allow mask {kod|nopeer|noserve|noquery|nomodify|notrap|limited} (vrf
  (management|NAME)|)
```

Configure access-control-entry client-ip-address

use this attribute to specify the allowed NTP client IP address

Attribute Name: client-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<access-control-entries>
<access-control-entry>
   <client-ip-address>CML_IP_ADDR_T</client-ip-address>
   <config>
      <client-ip-address>CML_IP_ADDR_T</client-ip-address>
   </config>
</access-control-entry>
</access-control-entries>
</vrf>
```

```
</vrfs>
</ntp>
```

Command Syntax

```
ntp allow (vrf (management|NAME)|)
```

Configure enable

Use this attribute to enable NTP debug logs

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<debug>
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
</ntp>
```

Command Syntax

```
debug ntp
```

Configure disable default instance

Use this attribute to prevent default ntp config from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
<default-instance>
<config>
   </disable-default-instance><!-- operation="delete"-->
</config>
</default-instance>
</ntp>
```

Command Syntax

```
ntp disable-default
```

ntp sync-retry (vrf (management|NAME)|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <ntp-retry-server-synchronization xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-ntp">
       <vrf-name>management</vrf-name>
       </ntp-retry-server-synchronization>
```

Command Syntax

```
    ntp sync-retry (vrf (management|NAME)|)
```

debug ntp

Netconf RPC payload

```
       <ntp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp"/>
```

Command Syntax

```
    debug ntp
```

no debug ntp

Netconf RPC payload

```
       <ntp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp"/>
```

Command Syntax

```
    no debug ntp
```

IPI-AAA

Configure authentication method rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
   </vrf>
   </vrfs>
```

```
   </aaa>
```

Command Syntax

```
    aaa authentication login default (vrf (management|NAME)|) group LINE
```

Configure vrf name

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
   </vrf>
   </vrfs>
   </aaa>
```

Command Syntax

```
    aaa authentication login default (vrf (management|NAME)|) local
```

Configure vrf authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
   </vrf>
   </vrfs>
   </aaa>
```

Command Syntax

```
aaa authentication login default (vrf (management|NAME)|) none
```

Configure vrf authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
   <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
</vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login default (vrf (management|NAME)|) local none
```

Configure accounting method rule

Use this attribute to set AAA methods for accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
   <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
</vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa accounting default (vrf (management|NAME)|) group LINE
```

Configure vrf accounting-method-rule

Use this attribute to set AAA methods for accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
   <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
</vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa accounting default (vrf (management|NAME)|) local
```

Configure authorization method rule

Use this attribute to set AAA methods for authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
   <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
</vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa authorization default (vrf (management|NAME)|) group LINE
```

Configure vrf authorization-method-rule

Use this attribute to set AAA methods for authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
      <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
   </vrf>
   </vrfs>
   </aaa>
```

Command Syntax

```
    aaa authorization default (vrf (management|NAME)|) local
```

Configure error enable

This is to enable error message on login failures

Attribute Name: error-enable

Attribute Type: uint8

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <vrfs>
   <vrf>
      <vrf-name>management</vrf-name>
      <config>
         <vrf-name>management</vrf-name>
      </config>
      </error-enable><!-- operation="delete"-->
   </vrf>
   </vrfs>
   </aaa>
```

Command Syntax

```
    aaa authentication login error-enable (vrf (management|NAME)|)
```

Configure enable fallback

This is to enable fallback to local authentication if remote authentication is configured and all AAA servers are unreachable

Attribute Name: enable-fallback

Attribute Type: uint8

Attribute Name: non-existent

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
      </non-existent><!-- operation="delete"-->
   </config>
   </enable-fallback><!-- operation="delete"-->
</vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login default fallback error local (non-existent-user|) (vrf
  (management|NAME)|)
```

Configure group type

This is to create server group type

Attribute Name: group-type

Attribute Type: enum (tacacs+|radius)

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<server-groups>
<server-group> <!-- operation="delete"-->
   <group-name>WORD</group-name>
   <config>
      <group-name>WORD</group-name>
      <group-type>tacacs+</group-type>
   </config>
      <group-type>tacacs+</group-type>
</server-group>
</server-groups>
</vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa group server (tacacs+|radius) WORD (vrf (management|NAME)|)
```

Configure host address

Use this attribute to add a host address to a server group

Attribute Name: host-address

Attribute Type: union

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<server-groups>
<server-group>
   <group-name>WORD</group-name>
   <config>
      <group-name>WORD</group-name>
      <group-type>tacacs+</group-type>
   </config>
      <group-type>tacacs+</group-type>
   <server-addresses>
   <server-address> <!-- operation="delete"-->
      <host-address>CML_HOSTNAME_T</host-address>
      <config>
         <host-address>CML_HOSTNAME_T</host-address>
      </config>
   </server-address>
</server-addresses>
</server-group>
</server-groups>
</vrf>
</vrfs>
</aaa>
```

Command Syntax

```
server (A.B.C.D|X:X::X:X|WORD)
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-authentication-console>
   <config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
   </config>
   </aaa-authentication-console>
   </aaa>
```

Command Syntax

```
    aaa authentication login console group LINE
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-authentication-console>
   <config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
   </config>
   </aaa-authentication-console>
   </aaa>
```

Command Syntax

```
    aaa authentication login console local
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-authentication-console>
   <config>
      <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
   </config>
   </aaa-authentication-console>
   </aaa>
```

Command Syntax

```
aaa authentication login console none
```

Configure aaa-authentication-console authentication-method-rule

Use this attribute to set AAA methods for authentication

Attribute Name: authentication-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-authentication-console>
<config>
   <authentication-method-rule>LINE</authentication-method-rule> <!--
operation="delete"-->
</config>
</aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authentication login console local none
```

Configure aaa-authentication-console authorization-method-rule

Use this attribute to set AAA methods for console authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-authentication-console>
<config>
   <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
</config>
</aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authorization console group LINE
```

Configure aaa-authentication-console authorization-method-rule

Use this attribute to set AAA methods for console authorization

Attribute Name: authorization-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-authentication-console>
   <config>
      <authorization-method-rule>LINE</authorization-method-rule> <!--
operation="delete"-->
   </config>
   </aaa-authentication-console>
   </aaa>
```

Command Syntax

```
    aaa authorization console local
```

Configure aaa-authentication-console accounting-method-rule

Use this attribute to set AAA methods for console accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-authentication-console>
   <config>
      <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
   </config>
   </aaa-authentication-console>
   </aaa>
```

Command Syntax

```
    aaa accounting console group LINE
```

Configure aaa-authentication-console accounting-method-rule

Use this attribute to set AAA methods for console accounting

Attribute Name: accounting-method-rule

Attribute Type: string

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-authentication-console>
   <config>
      <accounting-method-rule>LINE</accounting-method-rule> <!-- operation="delete"-->
   </config>
   </aaa-authentication-console>
   </aaa>
```

Command Syntax

```
    aaa accounting console local
```

Configure user non existent

This is to enable fallback to local authentication if remote authentication is configured and all AAA servers are unreachable

Attribute Name: enable-fallback

Attribute Type: boolean

Attribute Name: user-non-existent

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-authentication-console>
<config>
   </user-non-existent><!-- operation="delete"-->
   <enable-fallback>true</enable-fallback> <!-- operation="delete"-->
</config>
</aaa-authentication-console>
</aaa>
```

Command Syntax

```
aaa authentication login console fallback error local (non-existent-user|)
```

Configure authentication max failure attempts

Use this attribute to set the number of unsuccessful authentication attempts before a user is locked out

Attribute Name: authentication-max-failure-attempts

Attribute Type: uint8

Attribute Range: 1-25

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<config>
   <authentication-max-failure-attempts>1</authentication-max-failure-attempts> <!-
- operation="delete"-->
</config>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication attempts max-fail <1-25>
```

Configure local user unlock timeout

Use this attribute to set unlock timeout after local user/s locked out

Attribute Name: local-user-unlock-timeout

Attribute Type: uint16

Attribute Range: 1-3600

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-user>
   <config>
      <local-user-unlock-timeout>1</local-user-unlock-timeout> <!--
operation="delete"-->
   </config>
   </aaa-user>
   </aaa>
```

Command Syntax

```
    aaa local authentication unlock-timeout <1-3600>
```

Configure enable

Enable feature of applying policy to update password

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-user>
   <password-policy>
   <config>
      </enable><!-- operation="delete"-->
   </config>
   </password-policy>
   </aaa-user>
   </aaa>
```

Command Syntax

```
    aaa local authentication password-policy
```

Configure numeric count

The minimum number of digits

Attribute Name: numeric-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
   <aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
   <aaa-user>
   <password-policy>
```

```
<config>
   <numeric-count>1</numeric-count> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy numeric-count <1-32>
```

Configure uppercase count

The minimum number of upper letters

Attribute Name: uppercase-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   <uppercase-count>1</uppercase-count> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy uppercase-count <1-32>
```

Configure lowercase count

The minimum number of lower letters

Attribute Name: lowercase-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   <lowercase-count>1</lowercase-count> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
```

```
</aaa>
```

Command Syntax

```
aaa local authentication password-policy lowercase-count <1-32>
```

Configure special count

The minimum number of special characters

Attribute Name: special-count

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   <special-count>1</special-count> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy special-count <1-32>
```

Configure history

history

Attribute Name: history

Attribute Type: uint16

Attribute Range: 1-400

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   <history>1</history> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy history <1-400>
```

Configure maxsequence

The maximum number of monotonic character sequences to be accepted.

Attribute Name: maxsequence

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   <maxsequence>1</maxsequence> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy maxsequence <1-32>
```

Configure disable usercheck

Disable the check if password contains username

Attribute Name: disable-usercheck

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   </disable-usercheck><!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy disable-usercheck
```

Configure maxrepeat

The maximum number of same consecutive characters to be accepted

Attribute Name: maxrepeat

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   <maxrepeat>1</maxrepeat> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy maxrepeat <1-32>
```

Configure min length

Minimum password length

Attribute Name: min-length

Attribute Type: uint8

Attribute Range: 8-32

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<config>
   <min-length>8</min-length> <!-- operation="delete"-->
</config>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password-policy min-length <8-32>
```

Configure role

use this attribute to set the role for password expiry

Attribute Name: role

Attribute Type: enum (network-admin|network-engineer|network-operator|network-user)

Attribute Name: expire

Attribute Type: uint16

Attribute Range: 0-1000

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<role-expdays>
<role-expday>
   <role>network-admin</role>
   <config>
      <role>network-admin</role>
      <expire>0</expire> <!-- operation="delete"-->
   </config>
</role-expday>
</role-expdays>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password expire <0-1000> role (network-admin|network-
  engineer|network-operator|network-user)
```

Configure user

use this attribute to set the username for password expiry

Attribute Name: user

Attribute Type: string

Attribute Name: expire

Attribute Type: uint16

Attribute Range: 0-1000

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<aaa-user>
<password-policy>
<user-expdays>
<user-expday>
   <user>WORD</user>
   <config>
      <user>WORD</user>
      <expire>0</expire> <!-- operation="delete"-->
   </config>
</user-expday>
</user-expdays>
</password-policy>
</aaa-user>
</aaa>
```

Command Syntax

```
aaa local authentication password expire <0-1000> user WORD
```

Configure debug enable

Use this attribute to display AAA debugging information.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
<debug>
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
</aaa>
```

Command Syntax

```
debug aaa
```

debug aaa

Netconf RPC payload

```
<aaa-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa"/>
```

Command Syntax

```
debug aaa
```

no debug aaa

Netconf RPC payload

```
<aaa-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa"/>
```

Command Syntax

```
no debug aaa
```

clear aaa local user lockout username USERNAME

Attribute Name: username

Attribute Type: string

Attribute Range: 2-32

Netconf RPC payload

```
<aaa-clear-local-user-lockout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
aaa">
```

```
<username>USERNAME</username>
</aaa-clear-local-user-lockout>
```

Command Syntax

```
clear aaa local user lockout username USERNAME
```

IPI-DHCP-RELAY

Configure disable dhcpv4 relay

Use this attribute to disable the DHCP relay global config

Attribute Name: disable-dhcpv4-relay

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<global>
<config>
      </disable-dhcpv4-relay><!-- operation="delete"-->
</config>
</global>
</relay>
</dhcp>
```

Command Syntax

```
no ip dhcp relay
```

Configure disable dhcpv6 relay

Use this attribute to disable the DHCP relay global config

Attribute Name: disable-dhcpv6-relay

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<global>
<config>
      </disable-dhcpv6-relay><!-- operation="delete"-->
</config>
</global>
</relay>
</dhcp>
```

Command Syntax

```
no ipv6 dhcp relay
```

Configure gi addr

Configure the custom gi-addr address

Attribute Name: gi-addr

Attribute Type: inet:ipv4-address

Attribute Name: ipv4-relay-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
      </ipv4-relay-interface><!-- operation="delete"-->
   </config>
      <gi-addr>A.B.C.D</gi-addr> <!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay gi-addr A.B.C.D
```

Configure src ip addr

Use custom gi-addr as the source address

Attribute Name: src-ip-addr

Attribute Type: empty

Attribute Name: ipv4-relay-interface

Attribute Type: empty

Attribute Name: gi-addr

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
```

```
    <name>WORD</name>
    <config>
        <name>WORD</name>
        </ipv4-relay-interface><!-- operation="delete"-->
        <gi-addr>A.B.C.D</gi-addr> <!-- operation="delete"-->
    </config>
        </src-ip-addr><!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay gi-addr A.B.C.D src-ip-addr
```

Configure ipv6 gi addr

ipv6-gi-addr to be used in the DHCP relay

Attribute Name: ipv6-gi-addr

Attribute Type: inet:ipv6-address

Attribute Name: ipv6-relay-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
        </ipv6-relay-interface><!-- operation="delete"-->
    </config>
        <ipv6-gi-addr>X:X::X:X</ipv6-gi-addr> <!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay gi-addr X:X::X:X
```

Configure ipv6 src addr

Use custom gi-addr as the source address

Attribute Name: ipv6-src-addr

Attribute Type: empty

Attribute Name: ipv6-relay-interface

Attribute Type: empty

Attribute Name: ipv6-gi-addr

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
      </ipv6-relay-interface><!-- operation="delete"-->
      <ipv6-gi-addr>X:X::X:X</ipv6-gi-addr> <!-- operation="delete"-->
   </config>
      </ipv6-src-addr><!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay gi-addr X:X::X:X src-ip-addr
```

Configure ipv4 relay interface

Enable relay on Client facing interface

Attribute Name: ipv4-relay-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </ipv4-relay-interface><!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay
```

Configure ipv4 uplink interface

Specify the interface as an uplink interface(Server facing)

Attribute Name: ipv4-uplink-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </ipv4-uplink-interface><!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
 ip dhcp relay uplink
```

Configure ipv4 group name

Correlate specified interface to a specified DHCP server group.

Attribute Name: ipv4-group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <ipv4-group-name>GROUP-NAME</ipv4-group-name> <!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
 ip dhcp relay server-select GROUP-NAME
```

Configure ipv6 relay interface

Enable IPv6 relay on Client facing interface

Attribute Name: ipv6-relay-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </ipv6-relay-interface><!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay
```

Configure ipv6 uplink interface

Specify the interface as an uplink interface(Server facing)

Attribute Name: ipv6-uplink-interface

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </ipv6-uplink-interface><!-- operation="delete"-->
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay uplink
```

Configure ipv6 group name

Correlate specified interface to a specified DHCPv6 server group.

Attribute Name: ipv6-group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <ipv6-group-name>GROUP-NAME</ipv6-group-name> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </relay>
   </dhcp>
```

Command Syntax

```
    ipv6 dhcp relay server-select GROUP-NAME
```

Configure link selection source ip

Enable link selection sub-option (5) in the option-82 in DHCP packet

Attribute Name: link-selection-source-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
         <link-selection-source-ip>A.B.C.D</link-selection-source-ip> <!--
operation="delete"-->
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
ip dhcp relay information source-ip A.B.C.D
```

Configure enable option82

Enable the device to insert and remove option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      </enable-option82><!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option
```

Configure enable dhcpv6 pd route injection

Enable the route installation from the prefixes learned through prefix delegation.

Attribute Name: enable-dhcpv6-pd-route-injection

Attribute Type: uint8

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      </enable-dhcpv6-pd-route-injection><!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay pd-route-injection
```

Configure remote id

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      </enable-option82><!-- operation="delete"-->
   </config>
      <remote-id>WORD</remote-id> <!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option remote-id WORD
```

Configure vrf name

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
```

```
        </enable-option82><!-- operation="delete"-->
      </config>
        <remote-id>0</remote-id> <!-- operation="delete"-->
  </vrf>
  </vrfs>
  </relay>
  </dhcp>
```

Command Syntax

```
ip dhcp relay information option remote-id hostname
```

Configure vrf remote-id

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
  <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
  <vrfs>
  <vrf>
     <vrf-name>WORD</vrf-name>
     <config>
        <vrf-name>NAME</vrf-name>
        </enable-option82><!-- operation="delete"-->
     </config>
        <remote-id>WORD</remote-id> <!-- operation="delete"-->
  </vrf>
  </vrfs>
  </relay>
  </dhcp>
```

Command Syntax

```
ip dhcp relay information option remote-id WORD
```

Configure vrf remote-id

Remote host identifier. Use option 82 to provide the DHCP server information about the DHCP client

Attribute Name: remote-id

Attribute Type: union

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
         </enable-option82><!-- operation="delete"-->
      </config>
         <remote-id>0</remote-id> <!-- operation="delete"-->
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
    ip dhcp relay information option remote-id hostname
```

Configure option82 template name

Apply the defined option82 template to a relay configs

Attribute Name: option82-template-name

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
         </enable-option82><!-- operation="delete"-->
      </config>
         <option82-template-name>WORD</option82-template-name> <!--
operation="delete"-->
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
    ip dhcp relay information option option82-template-name WORD
```

Configure vrf option82-template-name

Apply the defined option82 template to a relay configs

Attribute Name: option82-template-name

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
         </enable-option82><!-- operation="delete"-->
      </config>
         <option82-template-name>WORD</option82-template-name> <!--
operation="delete"-->
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
    ip dhcp relay information option option82-template-name WORD
```

Configure enable option82 always on

Keep option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82-always-on

Attribute Type: uint8

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
         </enable-option82><!-- operation="delete"-->
      </config>
         </enable-option82-always-on><!-- operation="delete"-->
```

```
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option always-on
```

Configure vrf enable-option82-always-on

Keep option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82-always-on

Attribute Type: uint8

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      </enable-option82><!-- operation="delete"-->
   </config>
      </enable-option82-always-on><!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option always-on
```

Configure ipv4 subscriber id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: ipv4-subscriber-id

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
```

```
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      </enable-option82><!-- operation="delete"-->
   </config>
      <ipv4-subscriber-id>WORD</ipv4-subscriber-id> <!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option subscriber-id WORD
```

Configure vrf ipv4-subscriber-id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: ipv4-subscriber-id

Attribute Type: string

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      </enable-option82><!-- operation="delete"-->
   </config>
      <ipv4-subscriber-id>WORD</ipv4-subscriber-id> <!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option subscriber-id WORD
```

Configure subscriber id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: subscriber-id

Attribute Type: string

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
         <subscriber-id>WORD</subscriber-id> <!-- operation="delete"-->
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
    ipv6 dhcp relay information option subscriber-id WORD
```

Configure vrf link-selection-source-ip

Enable link selection sub-option (5) in the option-82 in DHCP packet

Attribute Name: link-selection-source-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
         <link-selection-source-ip>A.B.C.D</link-selection-source-ip> <!--
operation="delete"-->
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
    ip dhcp relay information source-ip A.B.C.D
```

Configure vrf enable-option82

Enable the device to insert and remove option-82 information on DHCP packets forwarded by the DHCP relay agent.

Attribute Name: enable-option82

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      </enable-option82><!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option
```

Configure vrf enable-dhcpv6-pd-route-injection

Enable the route installation from the prefixes learned through prefix delegation.

Attribute Name: enable-dhcpv6-pd-route-injection

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      </enable-dhcpv6-pd-route-injection><!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay pd-route-injection
```

Configure enable dhcpv6 duplicate clients

Specify that the DHCPv6 relay agent uses the clients incoming interfaces to differentiate between the duplicate DUIDs (Interface Identifier Option)

Attribute Name: enable-dhcpv6-duplicate-clients

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      </enable-dhcpv6-duplicate-clients><!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay duplicate-clients
```

Configure vrf subscriber-id

Subscriber identifier. Use this option to allows the service provider to assign/activate subscriber-specific actions

Attribute Name: subscriber-id

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
      <subscriber-id>WORD</subscriber-id> <!-- operation="delete"-->
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay information option subscriber-id WORD
```

Configure interface type

DHCP relay vpn interface type

Attribute Name: interface-type

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ipv4-vpn-links>
   <ipv4-vpn-link> <!-- operation="delete"-->
      <interface-type>l3vpn</interface-type>
      <config>
         <interface-type>l3vpn</interface-type>
         <interface-direction>uplink</interface-direction>
      </config>
   </ipv4-vpn-link>
</ipv4-vpn-links>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure interface direction

DHCP relay vpn interface type

Attribute Name: interface-type

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
```

```
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ipv4-vpn-links>
   <ipv4-vpn-link>
      <interface-type>l3vpn</interface-type>
      <config>
         <interface-type>l3vpn</interface-type>
         <interface-direction>uplink</interface-direction>
      </config>
   </ipv4-vpn-link>
</ipv4-vpn-links>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure interface type v6

DHCPv6 relay vpn interface type

This command is supported when following feature are enabled IPV6 feature

Attribute Name: interface-type-v6

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction-v6

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ipv6-vpn-links>
   <ipv6-vpn-link> <!-- operation="delete"-->
      <interface-type-v6>l3vpn</interface-type-v6>
      <config>
         <interface-type-v6>l3vpn</interface-type-v6>
         <interface-direction-v6>uplink</interface-direction-v6>
      </config>
   </ipv6-vpn-link>
```

```
</ipv6-vpn-links>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure interface direction v6

DHCPv6 relay vpn interface type

This command is supported when following feature are enabled IPV6 feature

Attribute Name: interface-type-v6

Attribute Type: enum (l3vpn|evpn)

Attribute Name: interface-direction-v6

Attribute Type: enum (uplink|downlink)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ipv6-vpn-links>
   <ipv6-vpn-link>
      <interface-type-v6>l3vpn</interface-type-v6>
      <config>
         <interface-type-v6>l3vpn</interface-type-v6>
         <interface-direction-v6>uplink</interface-direction-v6>
      </config>
   </ipv6-vpn-link>
</ipv6-vpn-links>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure ip address

IPv4 address of the DHCP server

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ipv4-dhcp-servers>
   <ipv4-dhcp-server> <!-- operation="delete"-->
      <ip-address>A.B.C.D</ip-address>
      <config>
         <ip-address>A.B.C.D</ip-address>
      </config>
   </ipv4-dhcp-server>
</ipv4-dhcp-servers>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay address A.B.C.D
```

Configure ipv4-dhcp-servers ip-address

IPv4 address of the DHCP server

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <ipv4-dhcp-servers>
   <ipv4-dhcp-server> <!-- operation="delete"-->
      <ip-address>A.B.C.D</ip-address>
      <config>
         <ip-address>A.B.C.D</ip-address>
      </config>
```

```
      </ipv4-dhcp-server>
   </ipv4-dhcp-servers>
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
    ip dhcp relay address A.B.C.D
```

Configure dhcpv4 server global vrf

This attributes defines the VRF in which the DHCPv4 relay server is present

Attribute Name: dhcpv4-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <ipv4-dhcp-servers>
      <ipv4-dhcp-server>
         <ip-address>A.B.C.D</ip-address>
         <config>
            <ip-address>A.B.C.D</ip-address>
         </config>
            <dhcpv4-server-global-vrf>VRF-NAME</dhcpv4-server-global-vrf> <!--
operation="delete"-->
      </ipv4-dhcp-server>
   </ipv4-dhcp-servers>
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
    ip dhcp relay address A.B.C.D global (VRF-NAME|)
```

Configure ipv4-dhcp-server dhcpv4-server-global-vrf

This attributes defines the VRF in which the DHCPv4 relay server is present

Attribute Name: dhcpv4-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
    <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
    <relay>
    <vrfs>
    <vrf>
       <vrf-name>WORD</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
       </config>
       <ipv4-dhcp-servers>
       <ipv4-dhcp-server>
          <ip-address>A.B.C.D</ip-address>
          <config>
             <ip-address>A.B.C.D</ip-address>
          </config>
             <dhcpv4-server-global-vrf>VRF-NAME</dhcpv4-server-global-vrf> <!--
operation="delete"-->
       </ipv4-dhcp-server>
    </ipv4-dhcp-servers>
    </vrf>
    </vrfs>
    </relay>
    </dhcp>
```

Command Syntax

```
     ip dhcp relay address A.B.C.D global (VRF-NAME|)
```

Configure ipv6 address

IPv6 address of the DHCP server

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
    <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
    <relay>
    <vrfs>
    <vrf>
       <vrf-name>WORD</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
       </config>
       <ipv6-dhcp-servers>
       <ipv6-dhcp-server> <!-- operation="delete"-->
          <ipv6-address>X:X::X:X</ipv6-address>
          <config>
             <ipv6-address>X:X::X:X</ipv6-address>
          </config>
```

```
    </ipv6-dhcp-server>
</ipv6-dhcp-servers>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X
```

Configure ipv6-dhcp-servers ipv6-address

IPv6 address of the DHCP server

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
    <vrf-name>WORD</vrf-name>
    <config>
        <vrf-name>NAME</vrf-name>
    </config>
    <ipv6-dhcp-servers>
    <ipv6-dhcp-server> <!-- operation="delete"-->
        <ipv6-address>X:X::X:X</ipv6-address>
        <config>
            <ipv6-address>X:X::X:X</ipv6-address>
        </config>
    </ipv6-dhcp-server>
</ipv6-dhcp-servers>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X
```

Configure dhcpv6 server global vrf

This attributes defines the VRF in which the DHCPv6 relay server is present

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dhcpv6-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
    <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
    <relay>
    <vrfs>
    <vrf>
       <vrf-name>WORD</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
       </config>
       <ipv6-dhcp-servers>
       <ipv6-dhcp-server>
          <ipv6-address>X:X::X:X</ipv6-address>
          <config>
             <ipv6-address>X:X::X:X</ipv6-address>
          </config>
             <dhcpv6-server-global-vrf>VRF-NAME</dhcpv6-server-global-vrf> <!--
operation="delete"-->
       </ipv6-dhcp-server>
    </ipv6-dhcp-servers>
    </vrf>
    </vrfs>
    </relay>
    </dhcp>
```

Command Syntax

```
     ipv6 dhcp relay address X:X::X:X global (VRF-NAME|)
```

Configure ipv6-dhcp-server dhcpv6-server-global-vrf

This attributes defines the VRF in which the DHCPv6 relay server is present

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dhcpv6-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
    <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
    <relay>
    <vrfs>
    <vrf>
       <vrf-name>WORD</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
       </config>
       <ipv6-dhcp-servers>
       <ipv6-dhcp-server>
          <ipv6-address>X:X::X:X</ipv6-address>
          <config>
```

```
            <ipv6-address>X:X::X:X</ipv6-address>
         </config>
            <dhcpv6-server-global-vrf>VRF-NAME</dhcpv6-server-global-vrf> <!--
operation="delete"-->
      </ipv6-dhcp-server>
   </ipv6-dhcp-servers>
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X global (VRF-NAME|)
```

Configure group name

IPv4 DHCP Relay group name

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <relay>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <dhcp-groups>
      <dhcp-group> <!-- operation="delete"-->
         <group-name>GROUP-NAME</group-name>
         <config>
            <group-name>WORD</group-name>
         </config>
      </dhcp-group>
   </dhcp-groups>
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
ip dhcp relay server-group GROUP-NAME
```

Configure dhcp-groups group-name

IPv4 DHCP Relay group name

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <dhcp-groups>
   <dhcp-group> <!-- operation="delete"-->
      <group-name>GROUP-NAME</group-name>
      <config>
         <group-name>WORD</group-name>
      </config>
   </dhcp-group>
</dhcp-groups>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
 ip dhcp relay server-group GROUP-NAME
```

Configure server

IPv4 DHCP Relay Group server details

Attribute Name: server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <dhcp-groups>
   <dhcp-group>
      <group-name>GROUP-NAME</group-name>
      <config>
```

```
            <group-name>WORD</group-name>
         </config>
            <server>A.B.C.D</server> <!-- operation="delete"-->
      </dhcp-group>
   </dhcp-groups>
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
server A.B.C.D
```

Configure group6 name

IPv6 DHCP Relay group name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: group6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <dhcpv6-groups>
   <dhcpv6-group> <!-- operation="delete"-->
      <group6-name>GROUP-NAME</group6-name>
      <config>
         <group6-name>WORD</group6-name>
      </config>
   </dhcpv6-group>
</dhcpv6-groups>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay server-group GROUP-NAME
```

Configure dhcpv6-groups group6-name

IPv6 DHCP Relay group name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: group6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <dhcpv6-groups>
   <dhcpv6-group> <!-- operation="delete"-->
      <group6-name>GROUP-NAME</group6-name>
      <config>
         <group6-name>WORD</group6-name>
      </config>
   </dhcpv6-group>
</dhcpv6-groups>
</vrf>
</vrfs>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay server-group GROUP-NAME
```

Configure dhcpv6-group server

IPv6 DHCP Relay Group server details

This command is supported when following feature are enabled IPV6 feature

Attribute Name: server

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<relay>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
```

```
        <vrf-name>NAME</vrf-name>
      </config>
      <dhcpv6-groups>
      <dhcpv6-group>
        <group6-name>GROUP-NAME</group6-name>
        <config>
          <group6-name>WORD</group6-name>
        </config>
          <server>X:X::X:X</server> <!-- operation="delete"-->
      </dhcpv6-group>
   </dhcpv6-groups>
   </vrf>
   </vrfs>
   </relay>
   </dhcp>
```

Command Syntax

```
server X:X::X:X
```

clear ip dhcp relay statistics (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
      <ipi-dhcp-relay_clear-relay-stats xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-dhcp">
      <vrf-name>NAME</vrf-name>
      </ipi-dhcp-relay_clear-relay-stats>
```

Command Syntax

```
clear ip dhcp relay statistics (vrf NAME|)
```

clear ip dhcp relay option statistics (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
      <ipi-dhcp-relay_clear-relay-option-stats xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-dhcp">
      <vrf-name>NAME</vrf-name>
      </ipi-dhcp-relay_clear-relay-option-stats>
```

Command Syntax

```
clear ip dhcp relay option statistics (vrf NAME|)
```

clear ipv6 dhcp pd-route (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <ipi-dhcp-relay_clear-dhcpv6-pd-route xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-dhcp">
       <vrf-name>NAME</vrf-name>
       </ipi-dhcp-relay_clear-dhcpv6-pd-route>
```

Command Syntax

```
     clear ipv6 dhcp pd-route (vrf NAME|)
```

IPI-DNS-RELAY

Configure enable dns feature

Use this attribute to enable the DNS relay agent feature.

Attribute Name: enable-dns-feature

Attribute Type: boolean

Netconf edit-config payload

```
   <dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
   <config>
      <enable-dns-feature>true</enable-dns-feature> <!-- operation="delete"-->
   </config>
   </dns-relay>
```

Command Syntax

```
     feature dns relay
```

Configure dns-relay enable-dns-feature

Use this attribute to enable the DNS relay agent feature.

Attribute Name: enable-dns-feature

Attribute Type: boolean

Netconf edit-config payload

```
   <dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
   <config>
      <enable-dns-feature>true</enable-dns-feature> <!-- operation="delete"-->
   </config>
   </dns-relay>
```

Command Syntax

```
no feature dns relay
```

Configure enable dnsv4 relay

Use this attribute to enable the IPv4 DNS relay agent.

Attribute Name: enable-dnsv4-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
   <enable-dnsv4-relay>true</enable-dnsv4-relay> <!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
ip dns relay
```

Configure dns-relay enable-dnsv4-relay

Use this attribute to enable the IPv4 DNS relay agent.

Attribute Name: enable-dnsv4-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
   <enable-dnsv4-relay>true</enable-dnsv4-relay> <!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
no ip dns relay
```

Configure enable dnsv6 relay

Use this attribute to enable the IPv6 DNS relay agent.

Attribute Name: enable-dnsv6-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
   <enable-dnsv6-relay>true</enable-dnsv6-relay> <!-- operation="delete"-->
</config>
```

```
</dns-relay>
```

Command Syntax

```
ipv6 dns relay
```

Configure dns-relay enable-dnsv6-relay

Use this attribute to enable the IPv6 DNS relay agent.

Attribute Name: enable-dnsv6-relay

Attribute Type: boolean

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
   <enable-dnsv6-relay>true</enable-dnsv6-relay> <!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
no ipv6 dns relay
```

Configure disable dnssec validation

Use this attribute to disable dnssec validation

Attribute Name: disable-dnssec-validation

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
   </disable-dnssec-validation><!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
dns relay disable dnssec-validation
```

Configure dns server v4 addr

Use this attribute to set the IPv4 address

Attribute Name: dns-server-v4-addr

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
   <dns-server-v4-addr>A.B.C.D</dns-server-v4-addr> <!-- operation="delete"-->
```

```
</config>
</dns-relay>
```

Command Syntax

```
ip dns relay address A.B.C.D
```

Configure dns server v6 addr

Use this attribute to set the IPv6 address

Attribute Name: dns-server-v6-addr

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
   <dns-server-v6-addr>X:X::X:X</dns-server-v6-addr> <!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay address X:X::X:X
```

Configure name

Use this attribute to enable the IPv4 DNS relay agent.

Attribute Name: enable-dnsv4-relay

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-dnsv4-relay><!-- operation="delete"-->
</interface>
</interfaces>
</dns-relay>
```

Command Syntax

```
ip dns relay
```

Configure interface enable-dnsv6-relay

Use this attribute to enable the IPv6 DNS relay agent.

Attribute Name: enable-dnsv6-relay

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-dnsv6-relay><!-- operation="delete"-->
</interface>
</interfaces>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay
```

Configure dns relay uplink

Use this attribute to set the uplink IPv4 DNS relay agent.

Attribute Name: dns-relay-uplink

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </dns-relay-uplink><!-- operation="delete"-->
</interface>
</interfaces>
</dns-relay>
```

Command Syntax

```
ip dns relay uplink
```

Configure dns relay v6 uplink

Use this attribute to set the uplink IPv6 DNS relay agent.

Attribute Name: dns-relay-v6-uplink

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </dns-relay-v6-uplink><!-- operation="delete"-->
</interface>
</interfaces>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay uplink
```

Configure vrf name

Use this attribute to disable dnssec validation

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: disable-dnssec-validation

Attribute Type: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   </disable-dnssec-validation><!-- operation="delete"-->
</vrf>
</vrfs>
</dns-relay>
```

Command Syntax

```
dns relay disable dnssec-validation
```

Configure vrf dns-server-v4-addr

Use this attribute to set the IPv4 address

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: dns-server-v4-addr

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dns-server-v4-addr>A.B.C.D</dns-server-v4-addr> <!-- operation="delete"-->
</vrf>
</vrfs>
</dns-relay>
```

Command Syntax

```
ip dns relay address A.B.C.D
```

Configure vrf dns-server-v6-addr

Use this attribute to set the IPv4 address

This command is supported when following feature are enabled Virtual routing and forwarding

Attribute Name: dns-server-v6-addr

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dns-server-v6-addr>X:X::X:X</dns-server-v6-addr> <!-- operation="delete"-->
</vrf>
</vrfs>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay address X:X::X:X
```

IPI-DNS-CLIENT

Configure default domain name

Default domain name used to complete unqualified host names (names without a dotted-decimal domain name).

Attribute Name: default-domain-name

Attribute Type: inet:domain-name

Netconf edit-config payload

```
    <dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
    <vrfs>
    <vrf>
       <vrf-name>NAME</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
       </config>
       <default-domain-name>DOMAIN-NAME</default-domain-name> <!-- operation="delete"--
>
    </vrf>
    </vrfs>
    </dns>
```

Command Syntax

```
     ip domain-name (vrf (NAME|management)|) DOMAIN-NAME
```

Configure vrf name

VRF name associated with this instance.

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: lookup-enabled

Attribute Type: empty

Netconf edit-config payload

```
    <dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
    <vrfs>
    <vrf>
       <vrf-name>NAME</vrf-name>
       <config>
          <vrf-name>NAME</vrf-name>
          </lookup-enabled><!-- operation="delete"-->
       </config>
    </vrf>
    </vrfs>
    </dns>
```

Command Syntax

```
     ip domain-lookup (vrf (NAME|management)|)
```

Configure address

Name server address used for name resolution.

Attribute Name: address

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<servers>
<server> <!-- operation="delete"-->
   <address>CML_IP_ADDR_T</address>
   <config>
      <address>CML_IP_ADDR_T</address>
   </config>
</server>
</servers>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip name-server (vrf (NAME|management)|) (A.B.C.D|X:X::X:X)
```

Configure domain name

Use this attribute to define a list of default domain names used to complete unqualified host names. Each domain in the list is to be tried in turn. The ip domain-list command is similar to the ip domain-name command, except that with the ip domain-list command you can define a list of domains, each to be tried in turn.If there is no domain list, the default domain name specified with the ip domain-name command is used. If there is a domain list, the default domain name is not used.

Attribute Name: domain-name

Attribute Type: inet:domain-name

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<search-domains>
<search-domain> <!-- operation="delete"-->
   <domain-name>DOMAIN-NAME</domain-name>
   <config>
      <domain-name>CML_DOMAIN_NAME_T</domain-name>
   </config>
```

```
</search-domain>
</search-domains>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip domain-list (vrf (NAME|management)|) DOMAIN-NAME
```

Configure ipv6 address

Configure a static hostname-to-address IPv6 mapping in DNS.

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<host-entries>
<host-entry>
   <hostname>HOSTNAME</hostname>
   <config>
      <hostname>1</hostname>
      <ipv4-address>A.B.C.D</ipv4-address> <!-- operation="delete"-->
   </config>
      <ipv6-address>X:X::X:X</ipv6-address> <!-- operation="delete"-->
</host-entry>
</host-entries>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip host (vrf (NAME|management)|) HOSTNAME A.B.C.D X:X::X:X
```

Configure ipv4 address

Configure a static hostname-to-address IPv4 mapping in DNS.

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<host-entries>
<host-entry>
   <hostname>HOSTNAME</hostname>
   <config>
      <hostname>1</hostname>
      <ipv6-address>X:X::X:X</ipv6-address> <!-- operation="delete"-->
   </config>
      <ipv4-address>A.B.C.D</ipv4-address> <!-- operation="delete"-->
</host-entry>
</host-entries>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
 ip host (vrf (NAME|management)|) HOSTNAME X:X::X:X A.B.C.D
```

Configure hostname

Configure a static hostname-to-address IPv4 mapping in DNS.

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<host-entries>
<host-entry>
   <hostname>HOSTNAME</hostname>
   <config>
      <hostname>1</hostname>
   </config>
      <ipv4-address>A.B.C.D</ipv4-address> <!-- operation="delete"-->
```

```
</host-entry>
</host-entries>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip host (vrf (NAME|management)|) HOSTNAME A.B.C.D
```

Configure host-entry ipv6-address

Configure a static hostname-to-address IPv6 mapping in DNS.

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<host-entries>
<host-entry>
   <hostname>HOSTNAME</hostname>
   <config>
      <hostname>1</hostname>
   </config>
      <ipv6-address>X:X::X:X</ipv6-address> <!-- operation="delete"-->
</host-entry>
</host-entries>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip host (vrf (NAME|management)|) HOSTNAME X:X::X:X
```

Configure enable

DNS client debug.

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<debug>
```

```
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
</dns>
```

Command Syntax

```
debug dns client
```

Configure disable default instance

Use this attribute to prevent default DNS config from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
<default-instance>
<config>
   </disable-default-instance><!-- operation="delete"-->
</config>
</default-instance>
</dns>
```

Command Syntax

```
ip domain-lookup disable-default
```

debug dns client

Netconf RPC payload

```
<dns-client-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client"/>
```

Command Syntax

```
debug dns client
```

no debug dns client

Netconf RPC payload

```
<dns-client-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client"/>
```

Command Syntax

```
no debug dns client
```

IPI-DHCP-CLIENT

Configure request ipv4 dns

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-ipv4-dns

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-ipv4-dns><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
 ip dhcp client request dns-nameserver
```

Configure request log server

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-log-server

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-log-server><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ip dhcp client request log-server
```

Configure request host name

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-host-name

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-host-name><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ip dhcp client request host-name
```

Configure request ntp server

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-ntp-server

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-ntp-server><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ip dhcp client request ntp-server
```

Configure request ipv6 dns

Use this attribute to to add an option to a DHCP request.

Attribute Name: request-ipv6-dns

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-ipv6-dns><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client request dns-nameserver
```

Configure request ipv6 domain list

Use this attribute to specifies a search list of Domain Names to be used by the client to locate not-fully-qualified domain names.

Attribute Name: request-ipv6-domain-list

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-ipv6-domain-list><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client request domain-search
```

Configure request ipv6 ntp server

Use this attribute to specifies a list of local NTP servers available for the client to synchronize their clocks.

Attribute Name: request-ipv6-ntp-server

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-ipv6-ntp-server><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client request ntp-server
```

Configure request ipv6 rapid commit

Use this attribute to indicate the clients to enter into rapid-commit with the server.

Attribute Name: request-ipv6-rapid-commit

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-ipv6-rapid-commit><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client request rapid-commit
```

Configure request ipv6 vendor opts

Use this attribute to specify a 32-bit Enterprise-ID number.

Attribute Name: request-ipv6-vendor-opts

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </request-ipv6-vendor-opts><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client request vendor-specific-information
```

Configure ipv6 information request

Use this attribute to get only stateless configuration parameters (i.e., without address).

Attribute Name: ipv6-information-request

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </ipv6-information-request><!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client information-request
```

Configure ipv6 dad wait time

Use this attribute to Specify maximum time (in seconds) that the client should wait for the duplicate address detection (DAD) to complete on an interface.

Attribute Name: ipv6-dad-wait-time

Attribute Type: uint16

Attribute Range: 1-600

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <ipv6-dad-wait-time>1</ipv6-dad-wait-time> <!-- operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client dad-wait-time <1-600>
```

Configure ipv6 client duid type

Use this attribute to configure duid type(ll or llt).

Attribute Name: ipv6-client-duid-type

Attribute Type: enum (ll|llt)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <ipv6-client-duid-type>ll</ipv6-client-duid-type> <!-- operation="delete"-->
</interface>
</interfaces>
```

```
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client duid (ll|llt)
```

Configure ipv6 max delegated prefix

Use this attribute to configure the maximum number of simultaneous prefixes delegated to a single client

Attribute Name: ipv6-max-delegated-prefix

Attribute Type: uint16

Attribute Range: 1-64

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <ipv6-max-delegated-prefix>1</ipv6-max-delegated-prefix> <!--
operation="delete"-->
</interface>
</interfaces>
</client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client max-delegated-prefixes <1-64>
```

Configure request ipv6 prefix

Use this attribute to add an option to a DHCP request.

Attribute Name: request-ipv6-prefix

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<client>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
          <request-ipv6-prefix>PREFIX-NAME</request-ipv6-prefix> <!--
operation="delete"-->
   </interface>
   </interfaces>
   </client>
   </dhcp>
```

Command Syntax

```
    ipv6 dhcp prefix-delegation PREFIX-NAME
```

Configure suffix ipv6 addr

This attribute points to IPv6 address

This command is supported when following feature are enabled IPV6 feature

Attribute Name: suffix-ipv6-addr

Attribute Type: string

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <client>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <prefix-ipv6-addresses>
      <prefix-ipv6-address> <!-- operation="delete"-->
         <suffix-ipv6-addr>X:X::X:X/M</suffix-ipv6-addr>
         <config>
            <suffix-ipv6-addr>X:X::X:X/M</suffix-ipv6-addr>
            <prefix-name>PREFIX-NAME</prefix-name>
         </config>
            <prefix-name>PREFIX-NAME</prefix-name>
      </prefix-ipv6-address>
   </prefix-ipv6-addresses>
   </interface>
   </interfaces>
   </client>
   </dhcp>
```

Command Syntax

```
    ipv6 address PREFIX-NAME X:X::X:X/M
```

IPI-DHCP-SERVER

Configure enable ipv4 server

Interface on which IPv4 DHCP Server has to be run

Attribute Name: enable-ipv4-server

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-ipv4-server><!-- operation="delete"-->
</interface>
</interfaces>
</server>
</dhcp>
```

Command Syntax

```
 ip dhcp server
```

Configure enable ipv6 server

Interface on which IPv6 DHCP Server has to be run

Attribute Name: enable-ipv6-server

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-ipv6-server><!-- operation="delete"-->
</interface>
</interfaces>
</server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server
```

Configure max lease time

Maximum length in seconds that will be assigned to a lease.If not defined, the default maximum lease time is 86400.

Attribute Name: max-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      <max-lease-time>SECONDS</max-lease-time> <!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ip dhcp server max-lease-time SECONDS
```

Configure default lease time

Length in seconds that will be assigned to a lease if the client requesting the lease does not ask for a specific expiration time. The default is 86400

Attribute Name: default-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      <default-lease-time>SECONDS</default-lease-time> <!-- operation="delete"-->
</vrf>
```

```
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ip dhcp server default-lease-time SECONDS
```

Configure rapid commit

Option enables the DHCP Client to obtain configuration parameters from the server through a rapid two message exchange (solicit and reply).

Attribute Name: rapid-commit

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      </rapid-commit><!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server rapid-commit
```

Configure preference

Use this to configure preference option in dhcp server.

Attribute Name: preference

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      </preference><!-- operation="delete"-->
```

```
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server preference
```

Configure vrf name

Option enables the DHCP Client to obtain configuration parameters from the server through a rapid two message exchange (solicit and reply).

Attribute Name: rapid-commit

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      </rapid-commit><!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server rapid-commit
```

Configure vrf preference

Use this to configure preference option in dhcp server.

Attribute Name: preference

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
```

```
        </preference><!-- operation="delete"-->
    </vrf>
    </vrfs>
    </server>
    </dhcp>
```

Command Syntax

```
ipv6 dhcp server preference
```

Configure vrf max-lease-time

Maximum length in seconds that will be assigned to a lease.If not defined, the default maximum lease time is 86400.

Attribute Name: max-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      <max-lease-time>SECONDS</max-lease-time> <!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ip dhcp server max-lease-time SECONDS
```

Configure vrf default-lease-time

Length in seconds that will be assigned to a lease if the client requesting the lease does not ask for a specific expiration time. The default is 86400

Attribute Name: default-lease-time

Attribute Type: int32

Default Value: 86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
```

```
    <vrf-name>WORD</vrf-name>
    <config>
       <vrf-name>WORD</vrf-name>
    </config>
       <default-lease-time>SECONDS</default-lease-time> <!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ip dhcp server default-lease-time SECONDS
```

Configure pool name

IPv4 DHCP Server address pool name

Attribute Name: pool-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool> <!-- operation="delete"-->
      <pool-name>NAME</pool-name>
      <config>
         <pool-name>WORD</pool-name>
      </config>
   </dhcp-pool>
</dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ip dhcp server pool NAME
```

Configure dhcp-pools pool-name

IPv4 DHCP Server address pool name

Attribute Name: pool-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool> <!-- operation="delete"-->
      <pool-name>NAME</pool-name>
      <config>
         <pool-name>WORD</pool-name>
      </config>
   </dhcp-pool>
</dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
 ip dhcp server pool NAME
```

Configure host name

IPv4 DHCP Server option to provide hostname details to a DHCP client

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool>
      <pool-name>NAME</pool-name>
```

```
        <config>
           <pool-name>WORD</pool-name>
        </config>
           <host-name>NAME</host-name> <!-- operation="delete"-->
     </dhcp-pool>
  </dhcp-pools>
  </vrf>
  </vrfs>
  </server>
  </dhcp>
```

Command Syntax

```
host-name NAME
```

Configure routers

IPv4 DHCP Server option to provide routers details to a DHCP client

Attribute Name: routers

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
  <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <server>
  <vrfs>
  <vrf>
     <vrf-name>WORD</vrf-name>
     <config>
        <vrf-name>WORD</vrf-name>
     </config>
     <dhcp-pools>
     <dhcp-pool>
        <pool-name>NAME</pool-name>
        <config>
           <pool-name>WORD</pool-name>
        </config>
           <routers>A.B.C.D</routers> <!-- operation="delete"-->
     </dhcp-pool>
  </dhcp-pools>
  </vrf>
  </vrfs>
  </server>
  </dhcp>
```

Command Syntax

```
routers A.B.C.D
```

Configure ntp server

IPv4 DHCP Server option to provide ntp-server details to a DHCP client

Attribute Name: ntp-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool>
      <pool-name>NAME</pool-name>
      <config>
         <pool-name>WORD</pool-name>
      </config>
         <ntp-server>A.B.C.D</ntp-server> <!-- operation="delete"-->
   </dhcp-pool>
</dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
 ntp-server A.B.C.D
```

Configure boot file

IPv4 DHCP Server option to provide boot-file details to a DHCP client

Attribute Name: boot-file

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool>
      <pool-name>NAME</pool-name>
```

```
        <config>
           <pool-name>WORD</pool-name>
        </config>
           <boot-file>BOOTFILE</boot-file> <!-- operation="delete"-->
     </dhcp-pool>
  </dhcp-pools>
  </vrf>
  </vrfs>
  </server>
  </dhcp>
```

Command Syntax

```
boot-file BOOTFILE
```

Configure tftp server

IPv4 DHCP Server option to provide tftp-server details to a DHCP client

Attribute Name: tftp-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool>
      <pool-name>NAME</pool-name>
      <config>
         <pool-name>WORD</pool-name>
      </config>
         <tftp-server>A.B.C.D</tftp-server> <!-- operation="delete"-->
   </dhcp-pool>
</dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
tftp-server A.B.C.D
```

Configure log server

IPv4 DHCP Server option to provide log-server details to a DHCP client

Attribute Name: log-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool>
      <pool-name>NAME</pool-name>
      <config>
         <pool-name>WORD</pool-name>
      </config>
         <log-server>A.B.C.D</log-server> <!-- operation="delete"-->
   </dhcp-pool>
</dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
 log-server A.B.C.D
```

Configure dns server

IPv4 DHCP Server option to provide dns name-server details to a DHCP client

Attribute Name: dns-server

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp-pools>
   <dhcp-pool>
      <pool-name>NAME</pool-name>
      <config>
         <pool-name>WORD</pool-name>
```

```
        </config>
           <dns-server>A.B.C.D</dns-server> <!-- operation="delete"-->
      </dhcp-pool>
   </dhcp-pools>
   </vrf>
   </vrfs>
   </server>
   </dhcp>
```

Command Syntax

```
dns-server A.B.C.D
```

Configure netmask

Mask part of the subnet that will be used to assign IPv4 addresses to hosts

Attribute Name: netmask

Attribute Type: inet:ipv4-address

Attribute Name: network

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <server>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <dhcp-pools>
      <dhcp-pool>
         <pool-name>NAME</pool-name>
         <config>
            <pool-name>WORD</pool-name>
            <network>A.B.C.D</network> <!-- operation="delete"-->
         </config>
            <netmask>A.B.C.D</netmask> <!-- operation="delete"-->
      </dhcp-pool>
   </dhcp-pools>
   </vrf>
   </vrfs>
   </server>
   </dhcp>
```

Command Syntax

```
network A.B.C.D netmask A.B.C.D
```

Configure high address in range

Specifies the high range of the IPv4 addresses that the DHCP server should assign to DHCP clients.

Attribute Name: high-address-in-range

Attribute Type: inet:ipv4-address

Attribute Name: low-address-in-range

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <server>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <dhcp-pools>
      <dhcp-pool>
         <pool-name>NAME</pool-name>
         <config>
            <pool-name>WORD</pool-name>
            <low-address-in-range>A.B.C.D</low-address-in-range> <!--
operation="delete"-->
         </config>
            <high-address-in-range>A.B.C.D</high-address-in-range> <!--
operation="delete"-->
      </dhcp-pool>
   </dhcp-pools>
   </vrf>
   </vrfs>
   </server>
   </dhcp>
```

Command Syntax

```
    address range low-address A.B.C.D (high-address A.B.C.D|)
```

Configure pool6 name

IPv6 DHCP Server address pool name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: pool6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
```

```
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp6-pools>
   <dhcp6-pool> <!-- operation="delete"-->
      <pool6-name>NAME</pool6-name>
      <config>
         <pool6-name>WORD</pool6-name>
      </config>
   </dhcp6-pool>
</dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server pool NAME
```

Configure dhcp6-pools pool6-name

IPv6 DHCP Server address pool name

This command is supported when following feature are enabled IPV6 feature

Attribute Name: pool6-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp6-pools>
   <dhcp6-pool> <!-- operation="delete"-->
      <pool6-name>NAME</pool6-name>
      <config>
         <pool6-name>WORD</pool6-name>
      </config>
   </dhcp6-pool>
</dhcp6-pools>
```

```
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server pool NAME
```

Configure domain name

IPv6 DHCP Server option to provide domain-name details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: domain-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp6-pools>
   <dhcp6-pool>
      <pool6-name>NAME</pool6-name>
      <config>
         <pool6-name>WORD</pool6-name>
      </config>
         <domain-name>NAME</domain-name> <!-- operation="delete"-->
   </dhcp6-pool>
</dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
domain-name NAME
```

Configure vendor options

IPv6 DHCP Server option to provide vendor details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vendor-options

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp6-pools>
   <dhcp6-pool>
      <pool6-name>NAME</pool6-name>
      <config>
         <pool6-name>WORD</pool6-name>
      </config>
         <vendor-options>VENDOR-OPTS</vendor-options> <!-- operation="delete"-->
   </dhcp6-pool>
</dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
 vendor-options VENDOR-OPTS
```

Configure dhcp6-pool ntp-server

IPv6 DHCP Server option to provide ntp-server details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ntp-server

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp6-pools>
   <dhcp6-pool>
      <pool6-name>NAME</pool6-name>
      <config>
         <pool6-name>WORD</pool6-name>
```

```
        </config>
           <ntp-server>X:X::X:X</ntp-server> <!-- operation="delete"-->
      </dhcp6-pool>
   </dhcp6-pools>
   </vrf>
   </vrfs>
   </server>
   </dhcp>
```

Command Syntax

```
ntp-server X:X::X:X
```

Configure dhcp6-pool dns-server

IPv6 DHCP Server option to provide dns name-server details to a DHCP client

This command is supported when following feature are enabled IPV6 feature

Attribute Name: dns-server

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <server>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <dhcp6-pools>
      <dhcp6-pool>
         <pool6-name>NAME</pool6-name>
         <config>
            <pool6-name>WORD</pool6-name>
         </config>
            <dns-server>X:X::X:X</dns-server> <!-- operation="delete"-->
      </dhcp6-pool>
   </dhcp6-pools>
   </vrf>
   </vrfs>
   </server>
   </dhcp>
```

Command Syntax

```
dns-server X:X::X:X
```

Configure ipv6 netmask

Mask part of the subnet that will be used to assign IPv6 addresses to hosts

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-netmask

Attribute Type: uint8

Attribute Range: 1-128

Attribute Name: ipv6-network

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <dhcp6-pools>
   <dhcp6-pool>
      <pool6-name>NAME</pool6-name>
      <config>
         <pool6-name>WORD</pool6-name>
         <ipv6-network>X:X::X:X</ipv6-network> <!-- operation="delete"-->
      </config>
         <ipv6-netmask>1</ipv6-netmask> <!-- operation="delete"-->
   </dhcp6-pool>
</dhcp6-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
network X:X::X:X netmask <1-128>
```

Configure low address in range

Specifies the high range of the IPv6 addresses that the DHCP server should assign to DHCP clients.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: high-address-in-range

Attribute Type: inet:ipv6-address

Attribute Name: low-address-in-range

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<server>
```

```
    <vrfs>
    <vrf>
       <vrf-name>WORD</vrf-name>
       <config>
          <vrf-name>WORD</vrf-name>
       </config>
       <dhcp6-pools>
       <dhcp6-pool>
          <pool6-name>NAME</pool6-name>
          <config>
             <pool6-name>WORD</pool6-name>
             <low-address-in-range>X:X::X:X</low-address-in-range> <!--
operation="delete"-->
          </config>
             <high-address-in-range>X:X::X:X</high-address-in-range> <!--
operation="delete"-->
       </dhcp6-pool>
    </dhcp6-pools>
    </vrf>
    </vrfs>
    </server>
    </dhcp>
```

Command Syntax

```
     address range low-address X:X::X:X (high-address X:X::X:X|)
```

Configure temporary address

Specifies the temporary IPv6 address that the DHCP server should assign to DHCP clients.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: temporary-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
    <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
    <server>
    <vrfs>
    <vrf>
       <vrf-name>WORD</vrf-name>
       <config>
          <vrf-name>WORD</vrf-name>
       </config>
       <dhcp6-pools>
       <dhcp6-pool>
          <pool6-name>NAME</pool6-name>
          <config>
             <pool6-name>WORD</pool6-name>
          </config>
```

```
            <temporary-address>X:X::X:X</temporary-address> <!-- operation="delete"--
>
       </dhcp6-pool>
   </dhcp6-pools>
   </vrf>
   </vrfs>
   </server>
   </dhcp>
```

Command Syntax

```
    temporary address X:X::X:X
```

Configure ipv6 prefix netmask

Mask part of the ipv6 Prefix used for Prefix delegation

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-prefix-netmask

Attribute Type: uint8

Attribute Range: 1-128

Attribute Name: ipv6-prefix-high-address

Attribute Type: inet:ipv6-address

Attribute Name: ipv6-prefix-low-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <server>
   <vrfs>
   <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <dhcp6-pools>
      <dhcp6-pool>
         <pool6-name>NAME</pool6-name>
         <config>
            <pool6-name>WORD</pool6-name>
            <ipv6-prefix-high-address>X:X::X:X</ipv6-prefix-high-address> <!--
operation="delete"-->
            <ipv6-prefix-low-address>X:X::X:X</ipv6-prefix-low-address> <!--
operation="delete"-->
         </config>
            <ipv6-prefix-netmask>1</ipv6-prefix-netmask> <!-- operation="delete"-->
      </dhcp6-pool>
   </dhcp6-pools>
   </vrf>
```

```
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
prefix high-range X:X::X:X low-range X:X::X:X netmask <1-128>
```

IPI-SFLOW

Configure enabled

Use this attribute to enable or disable Sampled Flow (sFlow) feature globally.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<config>
   </enabled>
</config>
</sflow>
</sampling>
```

Command Syntax

```
feature sflow
```

Configure source address

The IP address associated with this agent. In the case of a multi-homed agent, this should be the loopback address of the agent. The sFlowAgent address must provide SNMP connectivity to the agent. The address should be an invariant that does not change as interfaces are reconfigured, enabled, disabled,added or removed. A manager should be able to use the sFlowAgentAddress as a unique key that will identify this agent over extended periods of time so that a history can be maintained.

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<config>
   <source-address>A.B.C.D</source-address> <!-- operation="delete"-->
</config>
</sflow>
</sampling>
```

Command Syntax

```
sflow agent-ip A.B.C.D
```

Configure vrf name

The VRF name from which this collector is reachable.

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: receiver-timeout

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-2147483647

Attribute Name: max-datagram-size

Attribute Type: uint16

Default Value: 1560

Attribute Range: 200-9000

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<collectors>
<collector>
   <collector-id>1</collector-id>
   <config>
      <collector-id>1</collector-id>
      <port>1024</port>
      <address>A.B.C.D</address>
      <receiver-timeout>0</receiver-timeout> <!-- operation="delete"-->
      <max-datagram-size>200</max-datagram-size> <!-- operation="delete"-->
   </config>
   <port>1024</port>
   <address>A.B.C.D</address>
   <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
</collector>
</collectors>
</sflow>
</sampling>
```

Command Syntax

```
sflow (collector-id <1-5>|) collector A.B.C.D (port <1024-65535>|) (receiver-time-
  out <0-2147483647>|) (max-datagram-size <200-9000>|) (vrf WORD|)
```

Configure max entries

Specifies the maximum number of log entries that are cached, default is 1000 entries

Attribute Name: max-entries

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-10000

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<logging>
<config>
   <max-entries>1000</max-entries> <!-- operation="delete"-->
</config>
</logging>
</sflow>
</sampling>
```

Command Syntax

```
access-list logging cache-size <1000-10000>
```

Configure options

Set sFlow debug in config mode

Attribute Name: options

Attribute Type: bits (agent|sampling|polling|all)

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<debug>
<config>
   <options>agent</options> <!-- operation="delete"-->
</config>
</debug>
</sflow>
</sampling>
```

Command Syntax

```
debug sflow (agent|sampling|polling|all)
```

Configure polling interval

Configure global polling-interval for packet sampling. The sflow polling-interval configuration on interface overrides the global configuration.

Attribute Name: polling-interval

Attribute Type: uint8

Attribute Range: 5-60

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<global>
<config>
   <polling-interval>5</polling-interval> <!-- operation="delete"-->
</config>
</global>
</sflow>
</sampling>
```

Command Syntax

```
sflow poll-interval <5-60>
```

Configure update port pvid

Configure enable update-port-pvid for sflow enabled access ports to include vlan in the sampled packets.

Attribute Name: update-port-pvid

Attribute Type: empty

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<global>
<config>
   </update-port-pvid><!-- operation="delete"-->
</config>
</global>
</sflow>
</sampling>
```

Command Syntax

```
sflow sampling update-port-pvid
```

Configure sampling direction

sflow sampling direction

Attribute Name: sampling-direction

Attribute Type: enum (ingress|egress)

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow"> <!--
operation="delete"-->
<sflow>
<global>
```

```
<samplings>
<sampling> <!-- operation="delete"-->
   <sampling-direction>ingress</sampling-direction>
   <config>
      <sampling-direction>ingress</sampling-direction>
   </config>
</sampling>
</samplings>
</global>
</sflow>
</sampling>
```

Command Syntax

```
sflow direction (ingress|egress)
```

Configure rate

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows.An agent should choose its own algorithm to introduce variance into the sampling so that exactly every Nth packet is not counted. A sampling rateof 1 counts all packets. A sampling rate of 0 disables sampling.The agent is permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations).When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value.When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: rate

Attribute Type: uint32

Default Value: 16777215

Attribute Range: 1024-16777215

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<global>
<samplings>
<sampling>
   <sampling-direction>ingress</sampling-direction>
   <config>
      <sampling-direction>ingress</sampling-direction>
   </config>
   <rate>1024</rate> <!-- operation="delete"-->
</sampling>
</samplings>
</global>
</sflow>
</sampling>
```

Command Syntax

```
sampling-rate <1024-16777215>
```

Configure max header size

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows.An agent should choose its own algorithm to introduce variance into the sampling so that exactly every Nth packet is not counted. A sampling rateof 1 counts all packets. A sampling rate of 0 disables sampling.The agent is permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations).When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value.When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: max-header-size

Attribute Type: uint16

Default Value: 16

Attribute Range: 16-256

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
<global>
<samplings>
<sampling>
   <sampling-direction>ingress</sampling-direction>
   <config>
      <sampling-direction>ingress</sampling-direction>
   </config>
   <max-header-size>16</max-header-size> <!-- operation="delete"-->
</sampling>
</samplings>
</global>
</sflow>
</sampling>
```

Command Syntax

```
max-header-size <16-256>
```

clear access-list log-cache

Netconf RPC payload

```
      <sflow-clear-access-list-log-cache xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-sflow"/>
```

Command Syntax

```
clear access-list log-cache
```

debug sflow (agent|sampling|polling|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (agent|sampling|polling|all)

Netconf RPC payload

```
<sflow-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<terminal-debug-options>agent</terminal-debug-options>
</sflow-terminal-debug-on>
```

Command Syntax

```
debug sflow (agent|sampling|polling|all)
```

no debug sflow (agent|sampling|polling|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (agent|sampling|polling|all)

Netconf RPC payload

```
<sflow-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
sflow">
<terminal-debug-options>agent</terminal-debug-options>
</sflow-terminal-debug-off>
```

Command Syntax

```
no debug sflow (agent|sampling|polling|all)
```

IPI-SFLOW-INTERFACE

Configure disable collector id

Disable a collector id to the interface so that no sflow data from this interface is sent to it.

Attribute Name: disable-collector-id

Attribute Type: uint8

Attribute Range: 1-5

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
   <interface>
      <name>WORD</name>
```

```
        <config>
           <name>WORD</name>
        </config>
           <disable-collector-id>1</disable-collector-id> <!-- operation="delete"-->
     </interface>
  </interfaces>
  </sflow>
  </sampling>
```

Command Syntax

```
 no sflow collector-id <1-5>
```

Configure enabled

To enable or disable sampling on an interface after giving the sflow sampling-rate command on the same interface, or it can use the global configuration for sampling and polling-interval on this interface.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
  <sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
     <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
     <interface>
        <name>WORD</name>
        <config>
           <name>WORD</name>
        </config>
           </enabled><!-- operation="delete"-->
     </interface>
  </interfaces>
  </sflow>
  </sampling>
```

Command Syntax

```
 sflow enable
```

Configure polling interval

The maximum number of seconds between successive samples of the counters associated with this data source. A sampling interval of 0 disables counter sampling.The agent is permitted to have minimum and maximum allowable values for the counter polling interval. A minimum interval lets the agent designer set an upper bound on the overhead associated with polling, anda maximum interval may be the result of implementation restrictions (such as counter size).In addition notall values between the maximum and minimum may be realizable as the sampling interval (again because of implementation considerations).When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value.When read, the agent must return the actual sampling interval it will be using (after the adjustments previously described).The sampling algorithm must converge so that over time the number of packets sampledapproaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: polling-interval

Attribute Type: uint8

Attribute Range: 5-60

Netconf edit-config payload

```
   <sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
   <sflow>
      <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
      <interface>
         <name>WORD</name>
         <config>
            <name>WORD</name>
         </config>
            <polling-interval>5</polling-interval> <!-- operation="delete"-->
      </interface>
   </interfaces>
   </sflow>
   </sampling>
```

Command Syntax

```
 sflow poll-interval <5-60>
```

Configure sampling direction

sflow sampling direction

Attribute Name: sampling-direction

Attribute Type: enum (ingress|egress)

Netconf edit-config payload

```
   <sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow"> <!--
operation="delete"-->
   <sflow>
      <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
      <interface>
         <name>WORD</name>
         <config>
            <name>WORD</name>
         </config>
         <samplings>
         <sampling> <!-- operation="delete"-->
            <sampling-direction>ingress</sampling-direction>
            <config>
               <sampling-direction>ingress</sampling-direction>
            </config>
         </sampling>
      </samplings>
   </interface>
   </interfaces>
```

```
</sflow>
</sampling>
```

Command Syntax

```
sflow direction (ingress|egress)
```

Configure rate

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows.An agent should choose its own algorithm to introduce variance into the sampling so that exactly every Nth packet is not counted. A sampling rateof 1 counts all packets. A sampling rate of 0 disables sampling.The agent is permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations).When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value.When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: rate

Attribute Type: uint32

Default Value: 16777215

Attribute Range: 1024-16777215

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <samplings>
      <sampling>
         <sampling-direction>ingress</sampling-direction>
         <config>
            <sampling-direction>ingress</sampling-direction>
         </config>
            <rate>1024</rate> <!-- operation="delete"-->
      </sampling>
   </samplings>
</interface>
</interfaces>
</sflow>
</sampling>
```

Command Syntax

```
sampling-rate <1024-16777215>
```

Configure max header size

The statistical sampling rate for packet sampling from this source. Set to N to sample 1/Nth of the packets in the monitored flows.An agent should choose its own algorithm to introduce variance into the sampling so that exactly every Nth packet is not counted. A sampling rateof 1 counts all packets. A sampling rate of 0 disables sampling.The agent is permitted to have minimum and maximum allowable values for the sampling rate. A minimum rate lets the agent designer set an upper bound on the overhead associated with sampling, and a maximum rate may be the result of hardware restrictions (such as counter size). In addition not all values between the maximum and minimum may be realizable as the sampling rate (again because of implementation considerations).When the sampling rate is set the agent is free to adjust the value so that it lies between the maximum and minimum values and has the closest achievable value.When read, the agent must return the actual sampling rate it will be using (after the adjustments previously described). The sampling algorithm must converge so that over time the number of packets sampled approaches 1/Nth of the total number of packets in the monitored flows.

Attribute Name: max-header-size

Attribute Type: uint16

Default Value: 16

Attribute Range: 16-256

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <samplings>
      <sampling>
         <sampling-direction>ingress</sampling-direction>
         <config>
            <sampling-direction>ingress</sampling-direction>
         </config>
            <max-header-size>16</max-header-size> <!-- operation="delete"-->
      </sampling>
   </samplings>
</interface>
</interfaces>
</sflow>
</sampling>
```

Command Syntax

```
 max-header-size <16-256>
```

Configure disabled

This leaf is used to disable sampling on given direction, but it keeps the sFlow feature running on interface.

Attribute Name: disabled

Attribute Type: empty

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
<sflow>
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-interface">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <samplings>
      <sampling>
         <sampling-direction>ingress</sampling-direction>
         <config>
            <sampling-direction>ingress</sampling-direction>
         </config>
            </disabled><!-- operation="delete"-->
      </sampling>
   </samplings>
</interface>
</interfaces>
</sflow>
</sampling>
```

Command Syntax

```
 disable
```

clear sflow statistics (interface IFNAME|)

Attribute Name: interface

Attribute Type: string

Netconf RPC payload

```
      <sflow-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-
interface">
      <interface>IFNAME</interface>
      </sflow-clear-statistics>
```

Command Syntax

```
 clear sflow statistics (interface IFNAME|)
```

clear dynamic-load-balance monitor events

Netconf RPC payload

```
      <clear-dynamic-load-balance-monitor-events xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-sflow-interface"/>
```

Command Syntax

```
clear dynamic-load-balance monitor events
```

IPI-SFLOW-IPFIX

Configure exporter name

The IP Flow Exporter name.

Attribute Name: exporter-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-exporters>
<ip-flow-exporter> <!-- operation="delete"-->
   <exporter-name>WORD</exporter-name>
   <config>
      <exporter-name>WORD</exporter-name>
   </config>
</ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
ip-flow-exporter WORD
```

Configure collector port

The IP port of the IP Flow Collector.

Attribute Name: collector-port

Attribute Type: inet:port-number

Attribute Range: 1024-65535

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-exporters>
<ip-flow-exporter>
   <exporter-name>WORD</exporter-name>
   <config>
      <exporter-name>WORD</exporter-name>
      <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
```

```
    </config>
    <collector-port>1024</collector-port> <!-- operation="delete"-->
</ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D port <1024-65535>
```

Configure collector vrf

VRF Name associated with this instance

Attribute Name: collector-vrf

Attribute Type: string

Attribute Range: 1-33

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Attribute Name: collector-port

Attribute Type: inet:port-number

Attribute Range: 1024-65535

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-exporters>
<ip-flow-exporter>
    <exporter-name>WORD</exporter-name>
    <config>
        <exporter-name>WORD</exporter-name>
        <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
        <collector-port>1024</collector-port> <!-- operation="delete"-->
    </config>
    <collector-vrf>WORD</collector-vrf> <!-- operation="delete"-->
</ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D port <1024-65535> vrf WORD
```

Configure collector ip

VRF Name associated with this instance

Attribute Name: collector-vrf

Attribute Type: string

Attribute Range: 1-33

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-exporters>
<ip-flow-exporter>
   <exporter-name>WORD</exporter-name>
   <config>
      <exporter-name>WORD</exporter-name>
      <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
   </config>
   <collector-vrf>WORD</collector-vrf> <!-- operation="delete"-->
</ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D vrf WORD
```

Configure source if

Source interface

Attribute Name: source-if

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-exporters>
<ip-flow-exporter>
   <exporter-name>WORD</exporter-name>
   <config>
      <exporter-name>WORD</exporter-name>
   </config>
   <source-if>IFNAME</source-if> <!-- operation="delete"-->
</ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
source IFNAME
```

Configure ip-flow-exporter collector-ip

The IP address of the IP Flow Collector.

Attribute Name: collector-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-exporters>
<ip-flow-exporter>
   <exporter-name>WORD</exporter-name>
   <config>
      <exporter-name>WORD</exporter-name>
   </config>
   <collector-ip>A.B.C.D</collector-ip> <!-- operation="delete"-->
</ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
collector destination A.B.C.D
```

Configure template id

Template ID for flow

Attribute Name: template-id

Attribute Type: uint32

Attribute Range: 256-65535

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-exporters>
<ip-flow-exporter>
   <exporter-name>WORD</exporter-name>
   <config>
      <exporter-name>WORD</exporter-name>
   </config>
   <template-id>256</template-id> <!-- operation="delete"-->
</ip-flow-exporter>
</ip-flow-exporters>
</ipfix>
```

Command Syntax

```
template-id <256-65535>
```

Configure template refresh interval

Interval to send periodic template updates to IP Flow Exporter.

Attribute Name: template-refresh-interval

Attribute Type: uint32

Attribute Range: 60-86400

Netconf edit-config payload

```
   <ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
   <ip-flow-exporters>
   <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
         <exporter-name>WORD</exporter-name>
      </config>
      <template-refresh-interval>60</template-refresh-interval> <!--
operation="delete"-->
   </ip-flow-exporter>
   </ip-flow-exporters>
   </ipfix>
```

Command Syntax

```
    template-refresh-interval <60-86400>
```

Configure samples per message

Samples per message

Attribute Name: samples-per-message

Attribute Type: enum (1|8)

Netconf edit-config payload

```
   <ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
   <ip-flow-exporters>
   <ip-flow-exporter>
      <exporter-name>WORD</exporter-name>
      <config>
         <exporter-name>WORD</exporter-name>
      </config>
      <samples-per-message>1</samples-per-message> <!-- operation="delete"-->
   </ip-flow-exporter>
   </ip-flow-exporters>
   </ipfix>
```

Command Syntax

```
    samples-per-message (1|8)
```

Configure monitor name

The IP Flow Monitor name.

Attribute Name: monitor-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-monitors>
<ip-flow-monitor> <!-- operation="delete"-->
   <monitor-name>WORD</monitor-name>
   <config>
      <monitor-name>WORD</monitor-name>
   </config>
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>
```

Command Syntax

```
ip-flow-monitor WORD
```

Configure flow exporter

Exporter Name associated with this instance

Attribute Name: flow-exporter

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-monitors>
<ip-flow-monitor>
   <monitor-name>WORD</monitor-name>
   <config>
      <monitor-name>WORD</monitor-name>
   </config>
   <flow-exporter>WORD</flow-exporter> <!-- operation="delete"-->
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>
```

Command Syntax

```
flow-exporter WORD
```

Configure sampling rate

Sampling Rate. One packet sampled after every ’sampling-rate’ packets

Attribute Name: sampling-rate

Attribute Type: uint32

Attribute Range: 1024-16777215

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
```

```
<ip-flow-monitors>
<ip-flow-monitor>
   <monitor-name>WORD</monitor-name>
   <config>
      <monitor-name>WORD</monitor-name>
   </config>
   <sampling-rate>1024</sampling-rate> <!-- operation="delete"-->
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>
```

Command Syntax

```
 sampling-rate <1024-16777215>
```

Configure observation domain id

Observation Domain ID.

Attribute Name: observation-domain-id

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<ip-flow-monitors>
<ip-flow-monitor>
   <monitor-name>WORD</monitor-name>
   <config>
      <monitor-name>WORD</monitor-name>
   </config>
   <observation-domain-id>0</observation-domain-id> <!-- operation="delete"-->
</ip-flow-monitor>
</ip-flow-monitors>
</ipfix>
```

Command Syntax

```
 observation-domain-id <0-4294967295>
```

Configure flow monitor

Monitor Name associated with this instance

Attribute Name: flow-monitor

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<ipfix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow-ipfix">
<interfaces>
```

```
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <flow-monitor>WORD</flow-monitor> <!-- operation="delete"-->
</interface>
</interfaces>
</ipfix>
```

Command Syntax

```
flow-monitor WORD
```

IPI-WATCHDOG

Configure watchdog disabled

Disable software watchdog functionality for all modules. This feature is enabled by default.

This command is supported when following feature are enabled Watchdog feature

Attribute Name: watchdog-disabled

Attribute Type: uint8

Netconf edit-config payload

```
<watchdog xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
<config>
   </watchdog-disabled><!-- operation="delete"-->
</config>
</watchdog>
```

Command Syntax

```
no feature software-watchdog
```

Configure keepalive interval

Software watchdog keep-alive time interval in seconds. Default value is 60 seconds.

This command is supported when following feature are enabled Watchdog feature

Attribute Name: keepalive-interval

Attribute Type: uint16

Default Value: 60

Attribute Range: 30-1800

Netconf edit-config payload

```
<watchdog xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
<config>
```

```
    <keepalive-interval>30</keepalive-interval> <!-- operation="delete"-->
</config>
</watchdog>
```

Command Syntax

```
software-watchdog keep-alive-time <30-1800>
```

Configure collect coredump

Collect NSM/HSL core when any process hung.

This command is supported when following feature are enabled Watchdog feature

Attribute Name: collect-coredump

Attribute Type: empty

Netconf edit-config payload

```
<watchdog xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
<config>
    </collect-coredump><!-- operation="delete"-->
</config>
</watchdog>
```

Command Syntax

```
process-hang core-dump enable
```

Configure module watchdog status disabled

Enable software watchdog functionality for a particular software module.

This command is supported when following feature are enabled Watchdog feature

Attribute Name: module-watchdog-status-disabled

Attribute Type: uint8

Netconf edit-config payload

```
<watchdog xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
<software-modules>
<software-module>
    <name>nsm</name>
    <config>
        <name>nsm</name>
    </config>
    </module-watchdog-status-disabled><!-- operation="delete"-->
</software-module>
</software-modules>
</watchdog>
```

Command Syntax

```
no software-watchdog
  (nsm|ripd|ripngd|ospfd|ospf6d|isisd|hostpd|ldpd|rsvpd|mribd|pimd|authd|mstpd|imi
```

```
|onmd|hsl|oamd|vlogd|ptpd|synced|vrrpd|ndd|ribd|bgpd|l2mribd|lagd|sflow|udld|cml
d|cmmd|pcepd)
```

clear cores (WORD|)

Attribute Name: core-dump

Attribute Type: string

Netconf RPC payload

```
<clear-core-dump xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-watchdog">
<core-dump>WORD</core-dump>
</clear-core-dump>
```

Command Syntax

```
clear cores (WORD|)
```

sys-update un-install

Netconf RPC payload

```
<sys-update-uninstall xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-
update"/>
```

Command Syntax

```
sys-update un-install
```

sys-container (raon) (install|update) file FILENAME

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: upgrade-type

Attribute Type: enum (install|update)

Attribute Name: file

Attribute Type: string

Netconf RPC payload

```
<sys-container-install xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-
update">
<type>raon</type>
<upgrade-type>install</upgrade-type>
<file>FILENAME</file>
</sys-container-install>
```

Command Syntax

```
sys-container (raon) (install|update) file FILENAME
```

sys-container (raon) un-install

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: un-install

Attribute Type: boolean

Default Value: false

Netconf RPC payload

```
       <sys-container-uninstall xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-
update">
       <type>raon</type>
       <un-install>true</un-install/>
       </sys-container-uninstall>
```

Command Syntax

```
    sys-container (raon) un-install
```

sys-container (raon) (start|stop|restart)

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: boot-type

Attribute Type: enum (start|stop|restart)

Netconf RPC payload

```
       <sys-container-boot xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update">
       <type>raon</type>
       <boot-type>start</boot-type>
       </sys-container-boot>
```

Command Syntax

```
    sys-container (raon) (start|stop|restart)
```

sys-container (raon) get URL (source-interface IFNAME|)

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: url

Attribute Type: string

Attribute Name: source-interface

Attribute Type: string

Netconf RPC payload

```
       <sys-container-get xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update">
```

```
<type>raon</type>
<url>URL</url>
<source-interface>IFNAME</source-interface>
</sys-container-get>
```

Command Syntax

```
sys-container (raon) get URL (source-interface IFNAME|)
```

sys-container (raon) remove file FILENAME

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: file

Attribute Type: string

Netconf RPC payload

```
<sys-container-remove xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-
update">
<type>raon</type>
<file>FILENAME</file>
</sys-container-remove>
```

Command Syntax

```
sys-container (raon) remove file FILENAME
```

sys-container (raon) verify image FILEPATH signature FILEPATH

Attribute Name: type

Attribute Type: enum (raon)

Attribute Name: image

Attribute Type: string

Attribute Name: signature

Attribute Type: string

Netconf RPC payload

```
<sys-container-verify xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-
update">
<type>raon</type>
<image>FILEPATH</image>
<signature>FILEPATH</signature>
</sys-container-verify>
```

Command Syntax

```
sys-container (raon) verify image FILEPATH signature FILEPATH
```

sys-container cancel download

Netconf RPC payload

```
      <sys-container-cancel-download xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-update"/>
```

Command Syntax

```
sys-container cancel download
```

IPI-MRIB-IPV4

Configure multicast routing enable

Use this attribute to turn on/off multicast routing on the router when turned off, the multicast protocol daemon remains present, but does not perform multicast functions. When multicast routing is enabled, the MRIB re-creates tunnels, and starts processing any VIF addition/deletion requests, MRT addition/deletion requests, and any multicast forwarding events.

Attribute Name: multicast-routing-enable

Attribute Type: uint8

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv4>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      </multicast-routing-enable><!-- operation="delete"-->
</vrf>
</vrfs>
</ipv4>
</mrib>
```

Command Syntax

```
ip multicast-routing (vrf WORD|)
```

Configure maximum routes

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded.

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv4>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <route-limit>
   <config>
          <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
   </config>
</route-limit>
</vrf>
</vrfs>
</ipv4>
</mrib>
```

Command Syntax

```
ip multicast (vrf WORD|) route-limit <1-2147483647>
```

Configure warning threshold

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded. If the threshold parameter is set, a threshold warning message is generated when this threshold is exceeded and the message continues to occur until the number of mroutes reaches the limit set by the limit argument.

Attribute Name: warning-threshold

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv4>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <route-limit>
   <config>
          <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
          <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
```

```
    </config>
</route-limit>
</vrf>
</vrfs>
</ipv4>
</mrib>
```

Command Syntax

```
ip multicast (vrf WORD|) route-limit <1-2147483647> <1-2147483647>
```

Configure options

Use this attribute to specify debug options

Attribute Name: options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv4>
<vrfs>
<vrf>
   <vrf-name>WORD</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <debug>
   <config>
         <options>all</options> <!-- operation="delete"-->
   </config>
</debug>
</vrf>
</vrfs>
</ipv4>
</mrib>
```

Command Syntax

```
debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
  msg|mrib-msg|mtrace|mtrace-detail)
```

Configure ttl threshold

Use this attribute to configure the time-to-live (TTL) threshold of packets being forwarded out of an interface. Only multicast packets with a TTL value greater than the threshold are forwarded out of the interface.

Attribute Name: ttl-threshold

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv4>
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <ttl-threshold>1</ttl-threshold> <!-- operation="delete"-->
</interface>
</interfaces>
</ipv4>
</mrib>
```

Command Syntax

```
ip multicast ttl-threshold <1-255>
```

debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
      <ipi-mrib-ipv4_mrib-ipv4-terminal-debug-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
      <vrf-name>WORD</vrf-name>
      <terminal-debug-options>all</terminal-debug-options>
      </ipi-mrib-ipv4_mrib-ipv4-terminal-debug-on>
```

Command Syntax

```
debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
  msg|mrib-msg|mtrace|mtrace-detail)
```

no debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-terminal-debug-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
       <vrf-name>WORD</vrf-name>
       <terminal-debug-options>all</terminal-debug-options>
       </ipi-mrib-ipv4_mrib-ipv4-terminal-debug-off>
```

Command Syntax

```
    no debug ip mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
      msg|mrib-msg|mtrace|mtrace-detail)
```

clear ip mroute (vrf NAME|) *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-clear-mroute-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <all-routes>CML_EMPTY_T</all-routes>
       </ipi-mrib-ipv4_mrib-ipv4-clear-mroute-all>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) *
```

clear ip mroute (vrf NAME|) A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-clear-mroute-group xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       </ipi-mrib-ipv4_mrib-ipv4-clear-mroute-group>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) A.B.C.D
```

clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-clear-mroute-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       <source-address>A.B.C.D</source-address>
       </ipi-mrib-ipv4_mrib-ipv4-clear-mroute-source-group>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) A.B.C.D A.B.C.D
```

clear ip mroute (vrf NAME|) statistics *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <all-routes>CML_EMPTY_T</all-routes>
       </ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-all>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) statistics *
```

clear ip mroute (vrf NAME|) statistics A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       </ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-group>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) statistics A.B.C.D
```

clear ip mroute (vrf NAME|) statistics A.B.C.D A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       <source-address>A.B.C.D</source-address>
       </ipi-mrib-ipv4_mrib-ipv4-clear-mroute-statistics-source-group>
```

Command Syntax

```
    clear ip mroute (vrf NAME|) statistics A.B.C.D A.B.C.D
```

snmp restart mrib

Netconf RPC payload

```
       <ipi-mrib-ipv4_mrib-ipv4-snmp-restart xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-mrib"/>
```

Command Syntax

```
    snmp restart mrib
```

IPI-MRIB-IPV6

Configure multicast routing enable

Use this attribute to turn on/off multicast routing on the router when turned off, the multicast protocol daemon remains present, but does not perform multicast functions. When multicast routing is enabled, the MRIB re-creates tunnels, and

starts processing any VIF addition/deletion requests, MRT addition/deletion requests, and any multicast forwarding events.

Attribute Name: multicast-routing-enable

Attribute Type: uint8

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv6>
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
      </multicast-routing-enable><!-- operation="delete"-->
</vrf>
</vrfs>
</ipv6>
</mrib>
```

Command Syntax

```
 ipv6 multicast-routing (vrf NAME|)
```

Configure maximum routes

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded.

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv6>
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <route-limit>
   <config>
          <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
   </config>
</route-limit>
</vrf>
</vrfs>
</ipv6>
```

```
</mrib>
```

Command Syntax

```
ipv6 multicast (vrf NAME|) route-limit <1-2147483647>
```

Configure warning threshold

Use this attribute to limit the number of multicast routes that can be added to a multicast routing table. It generates an error message when the limit is exceeded. If the threshold parameter is set, a threshold warning message is generated when this threshold is exceeded and the message continues to occur until the number of mroutes reaches the limit set by the limit argument.

Attribute Name: warning-threshold

Attribute Type: uint32

Attribute Range: 1-2147483647

Attribute Name: maximum-routes

Attribute Type: uint32

Attribute Range: 1-2147483647

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv6>
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <route-limit>
   <config>
          <maximum-routes>1</maximum-routes> <!-- operation="delete"-->
          <warning-threshold>1</warning-threshold> <!-- operation="delete"-->
   </config>
</route-limit>
</vrf>
</vrfs>
</ipv6>
</mrib>
```

Command Syntax

```
ipv6 multicast (vrf NAME|) route-limit <1-2147483647> <1-2147483647>
```

Configure options

Use this attribute to specify debug options

Attribute Name: options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf edit-config payload

```
<mrib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mrib">
<ipv6>
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
   </config>
   <debug>
   <config>
         <options>all</options> <!-- operation="delete"-->
   </config>
</debug>
</vrf>
</vrfs>
</ipv6>
</mrib>
```

Command Syntax

```
debug ipv6 mrib (vrf NAME|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
  msg|mrib-msg|mtrace|mtrace-detail)
```

debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
      <ipi-mrib-ipv6_mrib-ipv6-terminal-debug-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
      <vrf-name>WORD</vrf-name>
      <terminal-debug-options>all</terminal-debug-options>
      </ipi-mrib-ipv6_mrib-ipv6-terminal-debug-on>
```

Command Syntax

```
debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
  msg|mrib-msg|mtrace|mtrace-detail)
```

no debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: terminal-debug-options

Attribute Type: bits (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-msg|mrib-msg|mtrace|mtrace-detail)

Netconf RPC payload

```
       <ipi-mrib-ipv6_mrib-ipv6-terminal-debug-off xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
       <vrf-name>WORD</vrf-name>
       <terminal-debug-options>all</terminal-debug-options>
       </ipi-mrib-ipv6_mrib-ipv6-terminal-debug-off>
```

Command Syntax

```
    no debug ipv6 mrib (vrf WORD|) (all|event|vif|mrt|stats|fib-msg|register-msg|nsm-
      msg|mrib-msg|mtrace|mtrace-detail)
```

clear ipv6 mroute (vrf NAME|) *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
       <ipi-mrib-ipv6_mrib-ipv6-clear-mroute-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <all-routes>CML_EMPTY_T</all-routes>
       </ipi-mrib-ipv6_mrib-ipv6-clear-mroute-all>
```

Command Syntax

```
    clear ipv6 mroute (vrf NAME|) *
```

clear ipv6 mroute (vrf NAME|) X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
       <ipi-mrib-ipv6_mrib-ipv6-clear-mroute-group xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <group-address>X:X::X:X</group-address>
       </ipi-mrib-ipv6_mrib-ipv6-clear-mroute-group>
```

Command Syntax

```
    clear ipv6 mroute (vrf NAME|) X:X::X:X
```

clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: source-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
       <ipi-mrib-ipv6_mrib-ipv6-clear-mroute-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <group-address>X:X::X:X</group-address>
       <source-address>X:X::X:X</source-address>
       </ipi-mrib-ipv6_mrib-ipv6-clear-mroute-source-group>
```

Command Syntax

```
    clear ipv6 mroute (vrf NAME|) X:X::X:X X:X::X:X
```

clear ipv6 mroute (vrf NAME|) statistics *

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: all-routes

Attribute Type: empty

Netconf RPC payload

```
       <ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
       <vrf-name>NAME</vrf-name>
       <all-routes>CML_EMPTY_T</all-routes>
       </ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-all>
```

Command Syntax

```
    clear ipv6 mroute (vrf NAME|) statistics *
```

clear ipv6 mroute (vrf NAME|) statistics X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
      <ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
      <vrf-name>NAME</vrf-name>
      <group-address>X:X::X:X</group-address>
      </ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-group>
```

Command Syntax

```
    clear ipv6 mroute (vrf NAME|) statistics X:X::X:X
```

clear ipv6 mroute (vrf NAME|) statistics X:X::X:X X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: source-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
      <ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-source-group xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-mrib">
      <vrf-name>NAME</vrf-name>
      <group-address>X:X::X:X</group-address>
      <source-address>X:X::X:X</source-address>
      </ipi-mrib-ipv6_mrib-ipv6-clear-mroute-statistics-source-group>
```

Command Syntax

```
    clear ipv6 mroute (vrf NAME|) statistics X:X::X:X X:X::X:X
```

IPI-IGMP

Configure disable ssm map

Use this attribute to enable the IGMP operation on an interface. This command enables IGMP operation in standalone mode, and can be used to learn local-membership information prior to enabling a multicast routing protocol on the interface. This command will has no effect on interfaces configured for IGMP proxy.

Attribute Name: disable-ssm-map

Attribute Type: empty

Netconf edit-config payload

```
   <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
```

```
    <config>
       <vrf-name>NAME</vrf-name>
    </config>
    </disable-ssm-map><!-- operation="delete"-->
</vrf>
</vrfs>
</igmp>
```

Command Syntax

```
no ip igmp (vrf NAME|) ssm-map enable
```

Configure disable tos check

Use this attribute to disable TOS check for Internetwork Control

Attribute Name: disable-tos-check

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   </disable-tos-check><!-- operation="delete"-->
</vrf>
</vrfs>
</igmp>
```

Command Syntax

```
no ip igmp (vrf NAME|) tos-check
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: limit-exception-acl

Attribute Type: string

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<group-membership-control>
<config>
       <member-limit>1</member-limit> <!-- operation="delete"-->
       <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"-->
</config>
</group-membership-control>
</vrf>
</vrfs>
</igmp>
```

Command Syntax

```
ip igmp (vrf NAME|) limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<group-membership-control>
<config>
       <member-limit>1</member-limit> <!-- operation="delete"-->
</config>
</group-membership-control>
</vrf>
</vrfs>
```

```
</igmp>
```

Command Syntax

```
ip igmp (vrf NAME|) limit <1-2097152>
```

Configure source

Use this attribute to specify the static mode of defining SSM mapping. SSM mapping statically assigns sources to IGMPv1 and IGMPv2 groups to translate such (star G) groups memberships to (S,G) memberships for use with PIMSSM.This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<ssm>
<static-mappings>
<static-mapping> <!-- operation="delete"-->
   <source>A.B.C.D</source>
   <config>
      <source>A.B.C.D</source>
      <group-ranges-acl>WORD</group-ranges-acl>
   </config>
      <group-ranges-acl>WORD</group-ranges-acl>
</static-mapping>
</static-mappings>
</ssm>
</vrf>
</vrfs>
</igmp>
```

Command Syntax

```
ip igmp (vrf NAME|) ssm-map static WORD A.B.C.D
```

Configure options

Use this attribute to enable igmp debugging configurations

Attribute Name: options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
```

```
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<debug>
<config>
       <options>all</options> <!-- operation="delete"-->
</config>
</debug>
</vrf>
</vrfs>
</igmp>
```

Command Syntax

```
debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: terminal-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<igmp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrf-name>NAME</vrf-name>
<terminal-debug-options>all</terminal-debug-options>
</igmp-terminal-debug-on>
```

Command Syntax

```
debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

no debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: terminal-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<igmp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrf-name>NAME</vrf-name>
```

```
<terminal-debug-options>all</terminal-debug-options>
</igmp-terminal-debug-off>
```

Command Syntax

```
no debug ip igmp (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

clear ip igmp (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<igmp-clear-all-groups-for-vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
igmp">
<vrf-name>NAME</vrf-name>
</igmp-clear-all-groups-for-vrf>
```

Command Syntax

```
clear ip igmp (vrf NAME|)
```

clear ip igmp (vrf NAME|) group *

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: clear-all

Attribute Type: empty

Netconf RPC payload

```
<igmp-clear-all-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<vrf-name>NAME</vrf-name>
<clear-all>CML_EMPTY_T</clear-all>
</igmp-clear-all-groups>
```

Command Syntax

```
clear ip igmp (vrf NAME|) group *
```

clear ip igmp (vrf NAME|) group A.B.C.D IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
       <igmp-clear-group-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
igmp">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       <if-name>IFNAME</if-name>
       </igmp-clear-group-on-interface>
```

Command Syntax

```
    clear ip igmp (vrf NAME|) group A.B.C.D IFNAME
```

clear ip igmp (vrf NAME|) interface IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
       <igmp-clear-all-groups-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-igmp">
       <vrf-name>NAME</vrf-name>
       <if-name>IFNAME</if-name>
       </igmp-clear-all-groups-on-interface>
```

Command Syntax

```
    clear ip igmp (vrf NAME|) interface IFNAME
```

clear ip igmp (vrf NAME|) group A.B.C.D

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <igmp-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
       <vrf-name>NAME</vrf-name>
       <group-address>A.B.C.D</group-address>
       </igmp-clear-group>
```

Command Syntax

```
clear ip igmp (vrf NAME|) group A.B.C.D
```

IPI-IGMP-INTERFACE

Configure offlink log suppress

Use this attribute to configure off-link log-suppress for IGMP.

Attribute Name: offlink-log-suppress

Attribute Type: empty

Attribute Name: allow-offlink-host

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
      </allow-offlink-host><!-- operation="delete"-->
   </config>
      </offlink-log-suppress><!-- operation="delete"-->
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp offlink (log-suppress|)
```

Configure enabled

Use this attribute to enable the IGMP operation on an interface. This attributeenables IGMP operation in standalone mode, and can be used to learn local-membership information prior to enabling a multicast routing protocol on the interface. This attribute will have no effect on interfaces configured for IGMP proxy

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
```

```
      </config>
         </enabled><!-- operation="delete"-->
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
    ip igmp
```

Configure last member query count

Use this attribute to set the last-member query-count value. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: last-member-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```
   <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <last-member-query-count>2</last-member-query-count> <!-- operation="delete"-
->
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
    ip igmp last-member-query-count <2-7>
```

Configure last member query interval

Use this attribute to configure the frequency at which the router sends IGMP group-specific host query messages. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: last-member-query-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```
   <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
   <interfaces>
```

```
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <last-member-query-interval>1000</last-member-query-interval> <!--
operation="delete"-->
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
    ip igmp last-member-query-interval <1000-25500>
```

Configure querier timeout

Use this attribute to set the timeout period before the router takes over as the querier for the interface after the previous querier has stopped querying. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: querier-timeout

Attribute Type: uint16

Default Value: 255

Attribute Range: 60-300

Netconf edit-config payload

```
   <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <querier-timeout>60</querier-timeout> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
    ip igmp querier-timeout <60-300>
```

Configure query interval

Use this attribute to set the frequency of sending IGMP host query messages. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: query-interval

Attribute Type: uint16

Default Value: 125

Attribute Range: 1-18000

Netconf edit-config payload

```
   <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <query-interval>1</query-interval> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
    ip igmp query-interval <1-18000>
```

Configure query max response time

Use this attribute to set the maximum response time advertised in IGMP queries. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: query-max-response-time

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-240

Netconf edit-config payload

```
   <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <query-max-response-time>1</query-max-response-time> <!-- operation="delete"-
->
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
    ip igmp query-max-response-time <1-240>
```

Configure startup query interval

Use this attribute to set a query interval value for IGMP

Attribute Name: startup-query-interval

Attribute Type: uint16

Default Value: 31

Attribute Range: 1-18000

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <startup-query-interval>1</startup-query-interval> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp startup-query-interval <1-18000>
```

Configure startup query count

Use this attribute to set a startup query count for IGMP

Attribute Name: startup-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-10

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <startup-query-count>2</startup-query-count> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp startup-query-count <2-10>
```

Configure robustness variable

Use this attribute to set the robustness variable value on an interface. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: robustness-variable

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <robustness-variable>2</robustness-variable> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
 ip igmp robustness-variable <2-7>
```

Configure version

Use this attribute to set the current IGMP protocol version on an interface. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols and IGMP Proxy.

Attribute Name: version

Attribute Type: uint8

Default Value: 3

Attribute Range: 1-3

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <version>1</version> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp version <1-3>
```

Configure require router alert option

Use this attribute to configure strict Router Advertisement validation for IGMP.

Attribute Name: require-router-alert-option

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </require-router-alert-option><!-- operation="delete"-->
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp ra-option
```

Configure enable proxy service

Use this attribute to designate an interface to be the IGMP proxy-service (upstream host-side) interface, thus enabling IGMP host-side protocol operation on this interface. All associated downstream router-side interfaces will have their memberships consolidated on this interface, according to IGMP host-side functionality

Attribute Name: enable-proxy-service

Attribute Type: empty

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <proxy>
   <config>
         </enable-proxy-service><!-- operation="delete"-->
   </config>
</proxy>
</interface>
</interfaces>
```

```
</igmp>
```

Command Syntax

```
ip igmp proxy-service
```

Configure mroute proxy interface

Use this attribute to specify the IGMP Proxy service interface with which to be associated. IGMP router-side protocol operation is enabled only when the specified upstream proxy-service interface is functional.

Attribute Name: mroute-proxy-interface

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <proxy>
   <config>
         <mroute-proxy-interface>IFNAME</mroute-proxy-interface> <!--
operation="delete"-->
   </config>
</proxy>
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp mroute-proxy IFNAME
```

Configure unsolicited report interval

Use this attribute to set an unsolicited report interval for an interface designated as an IGMP proxy

Attribute Name: unsolicited-report-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
```

```
       <config>
          <name>WORD</name>
       </config>
       <proxy>
       <config>
             <unsolicited-report-interval>1000</unsolicited-report-interval> <!--
operation="delete"-->
       </config>
    </proxy>
    </interface>
    </interfaces>
    </igmp>
```

Command Syntax

```
    ip igmp proxy unsolicited-report-interval <1000-25500>
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address to be excluded from being subject to the limit.

Attribute Name: limit-exception-acl

Attribute Type: string

Attribute Name: member-limit

Attribute Type: uint32

Attribute Range: 1-2097152

Netconf edit-config payload

```
    <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
    <interfaces>
    <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
       <group-membership-control>
       <config>
             <member-limit>1</member-limit> <!-- operation="delete"-->
             <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"--
>
       </config>
    </group-membership-control>
    </interface>
    </interfaces>
    </igmp>
```

Command Syntax

```
    ip igmp limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address to be excluded from being subject to the limit.

Attribute Name: member-limit

Attribute Type: uint32

Attribute Range: 1-2097152

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <group-membership-control>
   <config>
         <member-limit>1</member-limit> <!-- operation="delete"-->
   </config>
</group-membership-control>
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
 ip igmp limit <1-2097152>
```

Configure access group name

Use this attribute to control the multicast local-membership groups learned on an interface. This attribute applies to interfaces configured for IGMP Layer-3 multicast protocols, IGMP proxy.

Attribute Name: access-group-name

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <group-membership-control>
   <config>
```

```
            <access-group-name>WORD</access-group-name> <!-- operation="delete"-->
       </config>
   </group-membership-control>
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
ip igmp access-group WORD
```

Configure immediate leave groups list

In IGMP version 2, use this attribute to minimize the leave latency of IGMP memberships. This attribute is used when only one receiver host is connected to each interface. This command applies to interfaces configured for IGMP Layer-3 multicast protocols, IGMP Proxy.

Attribute Name: immediate-leave-groups-list

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
   <igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <group-membership-control>
      <config>
            <immediate-leave-groups-list>WORD</immediate-leave-groups-list> <!--
operation="delete"-->
      </config>
   </group-membership-control>
   </interface>
   </interfaces>
   </igmp>
```

Command Syntax

```
ip igmp immediate-leave group-list WORD
```

Configure group address

Use this attribute to statically configure group membership entries on an interface. To statically add only a group membership, do not specify any parameters. This attribute applies to IGMP operation on a specific interface to statically add group and/or source records on a VLAN interface to statically add group and/or source records.

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <asm-static-groups>
   <asm-static-group> <!-- operation="delete"-->
      <group-address>A.B.C.D</group-address>
      <config>
         <group-address>A.B.C.D</group-address>
      </config>
   </asm-static-group>
</asm-static-groups>
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
 ip igmp static-group A.B.C.D
```

Configure source

Use this attribute to statically configure the group to be joined.

Attribute Name: source

Attribute Type: union

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <ssm-static-groups>
   <ssm-static-group> <!-- operation="delete"-->
      <source>ssm-map</source>
      <config>
         <source>ssm-map</source>
         <group-address>A.B.C.D</group-address>
      </config>
         <group-address>A.B.C.D</group-address>
   </ssm-static-group>
</ssm-static-groups>
</interface>
</interfaces>
```

```
</igmp>
```

Command Syntax

```
ip igmp static-group A.B.C.D source (ssm-map|A.B.C.D)
```

Configure name

Use this attribute to configure a join multicast group.

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <asm-join-groups>
   <asm-join-group> <!-- operation="delete"-->
      <group-address>A.B.C.D</group-address>
      <config>
         <group-address>A.B.C.D</group-address>
      </config>
   </asm-join-group>
</asm-join-groups>
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp join-group A.B.C.D
```

Configure ssm-join-groups source

Use this attribute to statically configure the group to be joined.

Attribute Name: source

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
    <ssm-join-groups>
    <ssm-join-group> <!-- operation="delete"-->
       <source>A.B.C.D</source>
       <config>
          <source>A.B.C.D</source>
          <group-address>A.B.C.D</group-address>
       </config>
          <group-address>A.B.C.D</group-address>
    </ssm-join-group>
</ssm-join-groups>
</interface>
</interfaces>
</igmp>
```

Command Syntax

```
ip igmp join-group A.B.C.D source A.B.C.D
```

IPI-IGMP-SNOOPING

Configure disable igmp snooping

Use this attribute to disable IGMP Snooping. When this attribute is given in the Configure mode, IGMP snooping is enabled at switch level on all the vlans in switch. When this attribute is given at the VLAN interface level, IGMP Snooping is enabled for that VLAN.

Attribute Name: disable-igmp-snooping

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<global>
<config>
   </disable-igmp-snooping><!-- operation="delete"-->
</config>
</global>
</igmp-snooping>
```

Command Syntax

```
no igmp snooping
```

Configure disable report suppression

Use this attribute to disable report suppression for IGMP version 1, 2 and 3 reports. By default report suppression is enabled.

Attribute Name: disable-report-suppression

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<global>
<config>
   </disable-report-suppression><!-- operation="delete"-->
</config>
</global>
</igmp-snooping>
```

Command Syntax

```
no igmp snooping report-suppression
```

Configure unknown multicast action

Use this attribute to set the action to be taken on receiving l2 unknown multicast packets.

Attribute Name: unknown-multicast-action

Attribute Type: enum (flood|discard)

Default Value: flood

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<global>
<config>
   <unknown-multicast-action>flood</unknown-multicast-action> <!--
operation="delete"-->
</config>
</global>
</igmp-snooping>
```

Command Syntax

```
l2 unknown mcast (flood|discard)
```

Configure options

Enable IGMP snooping debug

Attribute Name: options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<debug>
<config>
   <options>decode</options> <!-- operation="delete"-->
</config>
</debug>
</igmp-snooping>
```

Command Syntax

```
debug igmp snooping (decode|encode|events|fsm|tib|all)
```

Configure igmp snooping

Use this attribute to enable or disable IGMP Snooping.When this command is given at the VLAN interface level, IGMP Snooping is enabled for that VLAN.

Attribute Name: igmp-snooping

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <igmp-snooping>disable</igmp-snooping> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
no ip igmp snooping
```

Configure report suppression

Use this attribute to enable or disable report suppression for IGMP version 1, 2 and 3 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <report-suppression>disable</report-suppression> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
no ip igmp snooping report-suppression
```

Configure enable fast leave

Use this attribute to enable IGMP Snooping fast-leave processing. Fast-leave processing is analogous to immediateleave processing the IGMP group-membership is removed, as soon as an IGMP leave group message is received without sending out a group-specific query

Attribute Name: enable-fast-leave

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-fast-leave><!-- operation="delete"-->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
 ip igmp snooping fast-leave
```

Configure mrouter interface name

Use this attribute to statically configure the specified VLAN constituent interface as a multicast router interface for IGMP Snooping in that VLAN.

Attribute Name: mrouter-interface-name

Attribute Type: string

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <mrouter-interface-name>IFNAME</mrouter-interface-name> <!-- operation="delete"-
->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
 ip igmp snooping mrouter interface IFNAME
```

Configure enable querier

Use this attribute to enable IGMP snooping querier functionality on a VLAN when IGMP is not enabled on the particular VLAN. When enabled, the IGMP Snooping querier sends out periodic IGMP queries for all interfaces on that VLAN.The IGMP Snooping querier uses the 0.0.0.0 source IP address, because it only masquerades as a proxy IGMP querier for faster network convergence. It does not start, or automatically cease, the IGMP Querier operation if it detects query message(s) from a multicast router. It restarts as the IGMP Snooping querier if no queries are seen within the other querier interval.

Attribute Name: enable-querier

Attribute Type: uint8

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-querier><!-- operation="delete"-->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
 ip igmp snooping querier
```

Configure name

Use this attribute to enable or disable IGMP Snooping.When this command is given at the VLAN interface level, IGMP Snooping is enabled for that VLAN.

Attribute Name: igmp-snooping

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <igmp-snooping>disable</igmp-snooping> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping (disable|enable)
```

Configure interface enable-fast-leave

Use this attribute to enable IGMP Snooping fast-leave processing. Fast-leave processing is analogous to immediateleave processing the IGMP group-membership is removed, as soon as an IGMP leave group message is received without sending out a group-specific query

Attribute Name: enable-fast-leave

Attribute Type: empty

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-fast-leave><!-- operation="delete"-->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping fast-leave
```

Configure interface report-suppression

Use this attribute to enable or disable report suppression for IGMP version 1, 2 and 3 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <report-suppression>disable</report-suppression> <!-- operation="delete"-->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping report-suppression (disable|enable)
```

Configure interface mrouter-interface-name

Use this attribute to statically configure the specified VLAN constituent interface as a multicast router interface for IGMP Snooping in that VLAN.

Attribute Name: mrouter-interface-name

Attribute Type: string

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <mrouter-interface-name>IFNAME</mrouter-interface-name> <!-- operation="delete"-
->
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping mrouter interface IFNAME
```

Configure interface enable-querier

Use this attribute to enable IGMP snooping querier functionality on a VLAN when IGMP is not enabled on the particular VLAN. When enabled, the IGMP Snooping querier sends out periodic IGMP queries for all interfaces on that VLAN.The IGMP Snooping querier uses the 0.0.0.0 source IP address, because it only masquerades as a proxy IGMP querier for faster network convergence. It does not start, or automatically cease, the IGMP Querier operation if it detects query message(s) from a multicast router. It restarts as the IGMP Snooping querier if no queries are seen within the other querier interval.

Attribute Name: enable-querier

Attribute Type: empty

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-querier><!-- operation="delete"-->
</interface>
```

```
</interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping querier
```

Configure source address

Use this attribute to set the Source Address to be joined

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<static-groups>
<ssm-groups>
<ssm-group>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>IFNAME</interface-name>
      <source-address>A.B.C.D</source-address>
      <group-address>A.B.C.D</group-address>
   </config>
      <source-address>A.B.C.D</source-address>
      <group-address>A.B.C.D</group-address>
</ssm-group>
</ssm-groups>
</static-groups>
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping static-group A.B.C.D source A.B.C.D interface IFNAME
```

Configure group address

Use this attribute to set the static group-address to be joined

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<igmp-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<static-groups>
<ssm-groups>
<ssm-group>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>IFNAME</interface-name>
      <source-address>A.B.C.D</source-address>
      <group-address>A.B.C.D</group-address>
   </config>
      <source-address>A.B.C.D</source-address>
      <group-address>A.B.C.D</group-address>
</ssm-group>
</ssm-groups>
</static-groups>
</interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
igmp snooping static-group A.B.C.D interface IFNAME
```

clear igmp snooping group A.B.C.D IFNAME

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
      <igmp-snooping-clear-group-interface xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-igmp-snooping">
      <group-address>A.B.C.D</group-address>
      <interface-name>IFNAME</interface-name>
      </igmp-snooping-clear-group-interface>
```

Command Syntax

```
clear igmp snooping group A.B.C.D IFNAME
```

clear igmp snooping interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
       <igmp-snooping-clear-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
       <interface-name>IFNAME</interface-name>
       </igmp-snooping-clear-interface>
```

Command Syntax

```
clear igmp snooping interface IFNAME
```

clear igmp snooping group *

Netconf RPC payload

```
       <igmp-snooping-clear-group-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping"/>
```

Command Syntax

```
clear igmp snooping group *
```

clear igmp snooping

Netconf RPC payload

```
       <igmp-snooping-clear-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping"/>
```

Command Syntax

```
clear igmp snooping
```

clear igmp snooping group A.B.C.D

Attribute Name: group-address

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <igmp-snooping-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-igmp-snooping">
       <group-address>A.B.C.D</group-address>
       </igmp-snooping-clear-group>
```

Command Syntax

```
clear igmp snooping group A.B.C.D
```

debug igmp snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
       <igmp-snooping-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-igmp-snooping">
       <terminal-debug-options>decode</terminal-debug-options>
       </igmp-snooping-terminal-debug-on>
```

Command Syntax

```
    debug igmp snooping (decode|encode|events|fsm|tib|all)
```

no debug igmp snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
       <igmp-snooping-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-igmp-snooping">
       <terminal-debug-options>decode</terminal-debug-options>
       </igmp-snooping-terminal-debug-off>
```

Command Syntax

```
    no debug igmp snooping (decode|encode|events|fsm|tib|all)
```

IPI-MLD-SNOOPING

Configure disable mld snooping

Use this attribute to enable MLD Snooping. When this command is given in the Configure mode, MLD Snooping is enabled at the switch level. When this attribute is given at the VLAN interface level, 5MLD Snooping is enabled for that VLAN.

Attribute Name: disable-mld-snooping

Attribute Type: uint8

Netconf edit-config payload

```
   <mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
   <global>
   <config>
      </disable-mld-snooping><!-- operation="delete"-->
   </config>
   </global>
   </mld-snooping>
```

Command Syntax

```
no mld snooping
```

Configure disable report suppression

Use this attribute to enable report suppression for MLD version 1.

Attribute Name: disable-report-suppression

Attribute Type: uint8

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<global>
<config>
   </disable-report-suppression><!-- operation="delete"-->
</config>
</global>
</mld-snooping>
```

Command Syntax

```
no mld snooping report-suppression
```

Configure options

Use this attribute to enable mld snooping debugging configurations

Attribute Name: options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<debug>
<config>
   <options>decode</options> <!-- operation="delete"-->
</config>
</debug>
</mld-snooping>
```

Command Syntax

```
debug mld snooping (decode|encode|events|fsm|tib|all)
```

Configure report suppression

Use this attribute to enable or disable report suppression for MLD version 1, and 2 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <report-suppression>disable</report-suppression> <!-- operation="delete"-->
</interface>
</interfaces>
</mld-snooping>
```

Command Syntax

```
no mld snooping report-suppression
```

Configure mld snooping

Use this attribute to enable MLD Snooping. When this attribute is given at the VLAN interface level, MLD Snooping is enabled for that VLAN.

Attribute Name: mld-snooping

Attribute Type: enum (disable|enable)

Default Value: enable

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <mld-snooping>enable</mld-snooping> <!-- operation="delete"-->
</interface>
</interfaces>
</mld-snooping>
```

Command Syntax

```
mld snooping (disable|enable)
```

Configure enable fast leave

Use this attribute to enable MLD Snooping fast-leave processing. Fast-leave processing is analogous to immediateleave processing the MLD group-membership is removed, as soon as an MLD leave group message is received without sending out a group-specific query.

Attribute Name: enable-fast-leave

Attribute Type: empty

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-fast-leave><!-- operation="delete"-->
</interface>
</interfaces>
</mld-snooping>
```

Command Syntax

```
 mld snooping fast-leave
```

Configure name

Use this attribute to enable or disable report suppression for MLD version 1, and 2 reports. By default report suppression is enabled.

Attribute Name: report-suppression

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <report-suppression>disable</report-suppression> <!-- operation="delete"-->
</interface>
</interfaces>
</mld-snooping>
```

Command Syntax

```
 mld snooping report-suppression (disable|enable)
```

Configure mrouter interface name

Use this attribute to statically configure the specified VLAN constituent interface as a multicast router interface for MLD Snooping in that VLAN

Attribute Name: mrouter-interface-name

Attribute Type: string

Netconf edit-config payload

```
<mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
```

```
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <mrouter-interface-name>IFNAME</mrouter-interface-name> <!-- operation="delete"-
->
   </interface>
   </interfaces>
   </mld-snooping>
```

Command Syntax

```
    mld snooping mrouter interface IFNAME
```

Configure enable querier

Use this attribute to enable MLD querier operation on a subnet (VLAN) when no multicast routing protocol is configured in the subnet VLAN. When enabled, the MLD Snooping querier sends out periodic MLD queries for all interfaces on that VLAN. The MLD Snooping querier uses the 0.0.0.0 source IP address, because it masquerades as a proxy MLD querier for faster network convergence. It does not start or automatically cease the MLD querier operation if it detects a query message from a multicast router. It restarts as MLD snooping querier if no queries are seen within another querier interval

Attribute Name: enable-querier

Attribute Type: empty

Netconf edit-config payload

```
   <mld-snooping xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      </enable-querier><!-- operation="delete"-->
   </interface>
   </interfaces>
   </mld-snooping>
```

Command Syntax

```
    mld snooping querier
```

debug mld snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
       <mld-snooping-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
       <terminal-debug-options>decode</terminal-debug-options>
       </mld-snooping-terminal-debug-on>
```

Command Syntax

```
    debug mld snooping (decode|encode|events|fsm|tib|all)
```

no debug mld snooping (decode|encode|events|fsm|tib|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (decode|encode|events|fsm|tib|all)

Netconf RPC payload

```
       <mld-snooping-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
       <terminal-debug-options>decode</terminal-debug-options>
       </mld-snooping-terminal-debug-off>
```

Command Syntax

```
    no debug mld snooping (decode|encode|events|fsm|tib|all)
```

clear mld snooping group X:X::X:X IFNAME

Attribute Name: group-address

Attribute Type: string

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
       <mld-snooping-clear-group-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
       <group-address>X:X::X:X</group-address>
       <interface-name>IFNAME</interface-name>
       </mld-snooping-clear-group-on-interface>
```

Command Syntax

```
    clear mld snooping group X:X::X:X IFNAME
```

clear mld snooping interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
       <mld-snooping-clear-all-groups-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
```

```
      <interface-name>IFNAME</interface-name>
      </mld-snooping-clear-all-groups-on-interface>
```

Command Syntax

```
clear mld snooping interface IFNAME
```

clear mld snooping group X:X::X:X

Attribute Name: group-address

Attribute Type: string

Netconf RPC payload

```
      <mld-snooping-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping">
      <group-address>X:X::X:X</group-address>
      </mld-snooping-clear-group>
```

Command Syntax

```
clear mld snooping group X:X::X:X
```

clear mld snooping group *

Netconf RPC payload

```
      <mld-snooping-clear-all-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping"/>
```

Command Syntax

```
clear mld snooping group *
```

clear mld snooping

Netconf RPC payload

```
      <mld-snooping-clear-all-groups-alias xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld-snooping"/>
```

Command Syntax

```
clear mld snooping
```

IPI-MLD

Configure disable ssm map

Use this attribute to enable/disable SSM mapping on the router

Attribute Name: disable-ssm-map

Attribute Type: empty

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   </disable-ssm-map><!-- operation="delete"-->
</vrf>
</vrfs>
</mld>
```

Command Syntax

```
 no ipv6 mld (vrf NAME|) ssm-map enable
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states at the router level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for MLD Layer-3 multicast protocols and MLD Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: limit-exception-acl

Attribute Type: string

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<group-membership-control>
<config>
       <member-limit>1</member-limit> <!-- operation="delete"-->
       <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"-->
</config>
</group-membership-control>
</vrf>
</vrfs>
</mld>
```

Command Syntax

```
ipv6 mld (vrf NAME|) limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the maximum number of group membership states at the router level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit. This command applies to interfaces configured for MLD Layer-3 multicast protocols and MLD Proxy. The limit applies, individually, to each of its constituent interfaces.

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrfs>
<vrf>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
<group-membership-control>
<config>
       <member-limit>1</member-limit> <!-- operation="delete"-->
</config>
</group-membership-control>
</vrf>
</vrfs>
</mld>
```

Command Syntax

```
ipv6 mld (vrf NAME|) limit <1-2097152>
```

Configure source

Use this attribute to specify the static mcast source for SSM mapping. SSM mapping statically assigns sources to MLDv1 groups to translate such (star G) groups memberships to (S,G) memberships for use with PIM-SSM.This attribute applies to interfaces configured for MLD Layer-3 multicast protocols and MLD Proxy.

Attribute Name: source

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrfs>
<vrf>
```

```
    <vrf-name>NAME</vrf-name>
    <config>
       <vrf-name>NAME</vrf-name>
    </config>
<ssm>
<static-mappings>
<static-mapping> <!-- operation="delete"-->
    <source>X:X::X:X</source>
    <config>
       <source>X:X::X:X</source>
       <group-ranges-acl>WORD</group-ranges-acl>
    </config>
       <group-ranges-acl>WORD</group-ranges-acl>
</static-mapping>
</static-mappings>
</ssm>
</vrf>
</vrfs>
</mld>
```

Command Syntax

```
ipv6 mld (vrf NAME|) ssm-map static WORD X:X::X:X
```

Configure debug options

Use this attribute to enable mld debugging configurations

Attribute Name: debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrfs>
<vrf>
    <vrf-name>NAME</vrf-name>
    <config>
       <vrf-name>NAME</vrf-name>
    </config>
<debug>
<config>
       <debug-options>all</debug-options> <!-- operation="delete"-->
</config>
</debug>
</vrf>
</vrfs>
</mld>
```

Command Syntax

```
debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: term-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<mld-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrf-name>NAME</vrf-name>
<term-debug-options>all</term-debug-options>
</mld-terminal-debug-on>
```

Command Syntax

```
debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

no debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: term-debug-options

Attribute Type: bits (all|decode|encode|events|fsm|tib)

Netconf RPC payload

```
<mld-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrf-name>NAME</vrf-name>
<term-debug-options>all</term-debug-options>
</mld-terminal-debug-off>
```

Command Syntax

```
no debug ipv6 mld (vrf NAME|) (all|decode|encode|events|fsm|tib)
```

clear ipv6 mld (vrf NAME|)

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
<mld-clear-all-groups-alias xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
mld">
<vrf-name>NAME</vrf-name>
</mld-clear-all-groups-alias>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|)
```

clear ipv6 mld (vrf NAME|) group *

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: clear-all

Attribute Type: empty

Netconf RPC payload

```
<mld-clear-all-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<vrf-name>NAME</vrf-name>
<clear-all>CML_EMPTY_T</clear-all>
</mld-clear-all-groups>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|) group *
```

clear ipv6 mld (vrf NAME|) group X:X::X:X IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
<mld-clear-group-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
mld">
<vrf-name>NAME</vrf-name>
<group-address>X:X::X:X</group-address>
<if-name>IFNAME</if-name>
</mld-clear-group-on-interface>
```

Command Syntax

```
clear ipv6 mld (vrf NAME|) group X:X::X:X IFNAME
```

clear ipv6 mld (vrf NAME|) interface IFNAME

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
       <mld-clear-all-groups-on-interface xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-mld">
       <vrf-name>NAME</vrf-name>
       <if-name>IFNAME</if-name>
       </mld-clear-all-groups-on-interface>
```

Command Syntax

```
    clear ipv6 mld (vrf NAME|) interface IFNAME
```

clear ipv6 mld (vrf NAME|) group X:X::X:X

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
       <mld-clear-group xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
       <vrf-name>NAME</vrf-name>
       <group-address>X:X::X:X</group-address>
       </mld-clear-group>
```

Command Syntax

```
    clear ipv6 mld (vrf NAME|) group X:X::X:X
```

IPI-MLD-INTERFACE

Configure enabled

Use this attribute to enable the MLD protocol operation on an interface. This attribute enables MLD protocol operation in stand-alone mode, and can be used to learn local-membership information prior to enabling a multicast routing protocol on the interface. This attribute will have no effect on interfaces configured for MLD Proxy.

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
```

```
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
          </enabled><!-- operation="delete"-->
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
    ipv6 mld
```

Configure last member query count

Use this attribute to set the last-member query-count value. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: last-member-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <last-member-query-count>2</last-member-query-count> <!-- operation="delete"-
->
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
    ipv6 mld last-member-query-count <2-7>
```

Configure last member query interval

Use this attribute to set the frequency at which the router sends MLD group-specific host query messages. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy

Attribute Name: last-member-query-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```
    <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
    <interfaces>
    <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
          <last-member-query-interval>1000</last-member-query-interval> <!--
operation="delete"-->
    </interface>
    </interfaces>
    </mld>
```

Command Syntax

```
     ipv6 mld last-member-query-interval <1000-25500>
```

Configure querier timeout

Use this attribute to configure the timeout period before the router takes over as the querier for the interface after the previous querier has stopped querying. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: querier-timeout

Attribute Type: uint16

Default Value: 250

Attribute Range: 60-300

Netconf edit-config payload

```
    <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
    <interfaces>
    <interface>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
          <querier-timeout>60</querier-timeout> <!-- operation="delete"-->
    </interface>
    </interfaces>
    </mld>
```

Command Syntax

```
     ipv6 mld querier-timeout <60-300>
```

Configure query interval

Use this attribute to set the frequency of sending MLD host query messages. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: query-interval

Attribute Type: uint16

Default Value: 125

Attribute Range: 1-18000

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <query-interval>1</query-interval> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
    ipv6 mld query-interval <1-18000>
```

Configure query max response time

Use this attribute to set the maximum response time advertised in MLD queries. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: query-max-response-time

Attribute Type: uint8

Default Value: 10

Attribute Range: 1-240

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <query-max-response-time>1</query-max-response-time> <!-- operation="delete"-
->
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
    ipv6 mld query-max-response-time <1-240>
```

Configure startup query interval

Use this attribute to set a startup query interval value for MLD

Attribute Name: startup-query-interval

Attribute Type: uint16

Default Value: 31

Attribute Range: 1-18000

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <startup-query-interval>1</startup-query-interval> <!-- operation="delete"-->
</interface>
</interfaces>
</mld>
```

Command Syntax

```
 ipv6 mld startup-query-interval <1-18000>
```

Configure startup query count

Use this attribute to set a startup query count for MLD

Attribute Name: startup-query-count

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-10

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
        <startup-query-count>2</startup-query-count> <!-- operation="delete"-->
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld startup-query-count <2-10>
```

Configure robustness variable

Use this attribute to set the robustness variable value on an interface. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: robustness-variable

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-7

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <robustness-variable>2</robustness-variable> <!-- operation="delete"-->
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld robustness-variable <2-7>
```

Configure version

Use this attribute to set the current MLD protocol version on an interface. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Snooping, or MLD Proxy.

Attribute Name: version

Attribute Type: uint8

Attribute Range: 1-2

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <version>1</version> <!-- operation="delete"-->
</interface>
</interfaces>
```

```
</mld>
```

Command Syntax

```
ipv6 mld version <1-2>
```

Configure enable proxy service

Use this attribute to designate an interface to be the MLD proxy-service upstream host-side interface, thus enabling MLD host-side protocol operation on this interface. All associated downstream router-side interfaces will have their memberships consolidatedon this interface, according to MLD host-side functionality. This attribute should not be used when configuring interfaces enabled for MLD in association with a multicast-routing protocol, otherwise the behavior will be undefined.

Attribute Name: enable-proxy-service

Attribute Type: empty

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <proxy>
   <config>
         </enable-proxy-service><!-- operation="delete"-->
   </config>
</proxy>
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld proxy-service
```

Configure mroute proxy interface

Use this attribute to specify the MLD Proxy service (upstream host-side) interface with which to be associated. MLD router-side protocol operation is enabled only when the specified upstream proxy-service interface is functional. This attribute should not be configured on interfaces enabled for MLD in association with a multicast routing protocol otherwise, the behavior will be undefined.

Attribute Name: mroute-proxy-interface

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
```

```
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <proxy>
      <config>
            <mroute-proxy-interface>IFNAME</mroute-proxy-interface> <!--
operation="delete"-->
      </config>
   </proxy>
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
    ipv6 mld mroute-proxy IFNAME
```

Configure unsolicited report interval

Use this attribute to set an unsolicited report interval for an interface designated as an MLD proxy

Attribute Name: unsolicited-report-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 1000-25500

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <proxy>
      <config>
            <unsolicited-report-interval>1000</unsolicited-report-interval> <!--
operation="delete"-->
      </config>
   </proxy>
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
    ipv6 mld proxy unsolicited-report-interval <1000-25500>
```

Configure limit exception acl

Use this attribute to set the maximum number of group membership states, at either the router level or at the interface level. Once the specified number of group memberships is reached, all further local-memberships are ignored. Optionally, an exception access-list can be configured to specify the group-address to be excluded from being subject to the limit.

Attribute Name: limit-exception-acl

Attribute Type: string

Default Value: NULL

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
    <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
    <interfaces>
    <interface>
        <name>WORD</name>
        <config>
            <name>WORD</name>
        </config>
        <group-membership-control>
        <config>
               <member-limit>1</member-limit> <!-- operation="delete"-->
               <limit-exception-acl>WORD</limit-exception-acl> <!-- operation="delete"--
>
        </config>
    </group-membership-control>
    </interface>
    </interfaces>
    </mld>
```

Command Syntax

```
     ipv6 mld limit <1-2097152> (except WORD|)
```

Configure member limit

Use this attribute to set the limit on the maximum number of group membership states at either the router level, or forthe specified interface. Once the specified number of group memberships is reached, all further local-memberships will be ignored. Optionally, an exception access-list can be configured to specify the group-address(es) to be excluded from being subject to the limit.

Attribute Name: member-limit

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-2097152

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <group-membership-control>
   <config>
          <member-limit>1</member-limit> <!-- operation="delete"-->
   </config>
</group-membership-control>
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld limit <1-2097152>
```

Configure access group name

Use this attribute to control the multicast local-membership groups learned on an interface. This attribute applies to interfaces configured for MLD Layer-3 multicast protocols, MLD proxy.

Attribute Name: access-group-name

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
<mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <group-membership-control>
   <config>
          <access-group-name>WORD</access-group-name> <!-- operation="delete"-->
   </config>
</group-membership-control>
</interface>
</interfaces>
</mld>
```

Command Syntax

```
ipv6 mld access-group WORD
```

Configure immediate leave groups list

In MLD version 2, use this attribute to minimize the leave latency of MLD memberships. This attribute is used when only one receiver host is connected to each interface. This command applies to interfaces configured for MLD Layer-3 multicast protocols, MLD Proxy.

Attribute Name: immediate-leave-groups-list

Attribute Type: string

Default Value: NULL

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <group-membership-control>
      <config>
            <immediate-leave-groups-list>WORD</immediate-leave-groups-list> <!--
operation="delete"-->
      </config>
   </group-membership-control>
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
    ipv6 mld immediate-leave group-list WORD
```

Configure group address

Use this attribute to statically configure IPv6 group membership entries on an interface. To statically add only a group membership, do not specify any parameters. This attribute applies to MLD operation on a specific interface to statically add group and/or source records or to MLD Snooping on a VLAN interface to statically add group and/or source records.

Attribute Name: group-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <asm-static-groups>
```

```
      <asm-static-group> <!-- operation="delete"-->
         <group-address>X:X::X:X</group-address>
         <config>
            <group-address>X:X::X:X</group-address>
         </config>
      </asm-static-group>
   </asm-static-groups>
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
ipv6 mld static-group X:X::X:X
```

Configure source

Use this attribute to statically configure the multicast source for group to be joined.

Attribute Name: source

Attribute Type: union

Netconf edit-config payload

```
   <mld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mld">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <ssm-static-groups>
      <ssm-static-group> <!-- operation="delete"-->
         <source>ssm-map</source>
         <config>
            <source>ssm-map</source>
            <group-address>X:X::X:X</group-address>
         </config>
            <group-address>X:X::X:X</group-address>
      </ssm-static-group>
   </ssm-static-groups>
   </interface>
   </interfaces>
   </mld>
```

Command Syntax

```
ipv6 mld static-group X:X::X:X source (ssm-map|X:X::X:X)
```

IPI-ROUTEMAP

Configure action

Use this attribute to enter the route-map mode and to permit or deny match/set operations.If deny is specified, and the match criteria are met, the route is not redistributed, and any other route maps with the same map tag are not examined.If permit is specified, and the match criteria are met, the route is redistributed as specified by the set actions. If the match criteria are not met, the next route map with the same tag is tested.

Attribute Name: action

Attribute Type: enum (permit|deny)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
   <action>permit</action>
</routemap>
</routemaps>
```

Command Syntax

```
 route-map WORD ((permit|deny)|) (<1-65535>|)
```

Configure continue to next sequence

The continue clause provides the capability to execute additional entries in a route map after an entry is executed with a successful match and set clauses Example the continue command allows multiple entries to be evaluated within a single route-map.

Attribute Name: continue-to-next-sequence

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<continue-on-match>
<config>
```

```
        </continue-to-next-sequence><!-- operation="delete"-->
    </config>
    </continue-on-match>
    </routemap>
    </routemaps>
```

Command Syntax

```
 continue
```

Configure next sequence number

Continue commands can be assigned optional sequence numbers that indicate the order in which clauses are to be evaluated.

Attribute Name: next-sequence-number

Attribute Type: uint32

Attribute Range: 2-65535

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
    <continue-on-match>
    <config>
          <next-sequence-number>2</next-sequence-number> <!-- operation="delete"-->
    </config>
    </continue-on-match>
    </routemap>
    </routemaps>
```

Command Syntax

```
 continue <2-65535>
```

Configure interface name

Use this attribute to define the interface match criterion. This command specifies the next-hop interface name of a route to be matched

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
```

```
    <config>
       <sequence-id>1</sequence-id>
       <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match interface IFNAME
```

Configure metric

Use this attribute to match a metric of a route. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: metric

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
    <sequence-id>1</sequence-id>
    <config>
       <sequence-id>1</sequence-id>
       <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <metric>1</metric> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match metric <1-4294967295>
```

Configure vlan id

use this attribute to set match entry traffic based on a VLAN

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <vlan-id>VLAN</vlan-id> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
 match vlan VLAN
```

Configure mac access list name

use this attribute to set the match entry for mac-access list

Attribute Name: mac-access-list-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <mac-access-list-name>WORD</mac-access-list-name> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match mac-list WORD
```

Configure tag

Use this command to set a tag value. The parameter is the route tag that is labeled by another routing protocol (BGP or other IGP when redistributing), because AS-external-LSA has a route-tag field in its LSAs. In addition, when using route-map, OcNOS can tag the LSAs with the appropriate tag value. Sometimes the tag matches with using route-map and sometimes, the value may be used by another application.

Attribute Name: tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<config>
      <tag>1</tag> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match tag <1-4294967295>
```

Configure route type

Use this attribute to match an external route type. AS-external LSA is either Type-1 or Type-2. External type-1 matches only Type 1 external routes and external type-2 matches only Type 2 external routes.

Attribute Name: route-type

Attribute Type: enum (type-1|type-2)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
```

```
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <route-type>type-1</route-type> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
 match route-type external (type-1|type-2)
```

Configure as path name

Use this command to match an autonomous system path access list. This command specifies the autonomous system path to be matched. If there is a match for the specified AS path, and permit is specified, the route is redistributed or controlled, as specified by the set action. If the match criteria are met, and deny is specified, the route is not redistributed or controlled. If the match criteria are not met then the route is neither accepted nor forwarded,irrespective of permit or deny specifications.The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes, depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: as-path-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <as-path-name>WORD</as-path-name> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
 match as-path WORD
```

Configure route origin

Use this attribute to match origin code.The origin attribute defines the origin of the path information. The egp parameter is indicated as an e in the routing table, and it indicates that the origin of the information is learned via EGP (Exterior

Gateway Protocol). The igp parameter is indicated as an i in the routing table, and it indicates the origin of the path information is interior to the originating AS. The incomplete parameter is indicated as a ? in the routing table, and indicates that the origin of the path information is unknown or learned through other means. If a static route is redistributed into BGP, the origin of the route is incomplete.This command specifies the origin to be matched. If there is a match for the specified origin, and permit is specified when you created the route-map, the route is redistributed or controlled as specified by the set action. If the match criteria are met, and deny is specified, the route is not redistributed or controlled. If the match criteria are not met, the route is neither accepted nor forwarded, irrespective of permit or deny specifications. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables

Attribute Name: route-origin

Attribute Type: enum (egp|igp|incomplete)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<config>
      <route-origin>egp</route-origin> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
 match origin (egp|igp|incomplete)
```

Configure rpki state

Use this attribute to match rpki-state.The rpki-state attribute defines the BGP RPKI state information. The value of this attribute shall be compared with a results of RPKI ROA lookup.

Attribute Name: rpki-state

Attribute Type: enum (valid|not-found|invalid)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
```

```
<match-condition>
<config>
       <rpki-state>valid</rpki-state> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match rpki (valid|not-found|invalid)
```

Configure evpn route type

Use this attribute to match evpn route type

Attribute Name: evpn-route-type

Attribute Type: enum (type-1|type-2|type-3|type-4|type-5|type-2-MAC-IP|type-2-MAC-ONLY)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <evpn-route-type>type-1</evpn-route-type> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match evpn-route-type (type-1|type-2|type-3|type-4|type-5|type-2-MAC-IP|type-2-
  MAC-ONLY)
```

Configure route map

Use this attribute to specify a route-map as a match criteia.

Attribute Name: route-map

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
```

```
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
        <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<match-condition>
<config>
       <route-map>WORD</route-map> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
 match route-map WORD
```

Configure packet max length

use this attribute to set match community maximum length

This command is supported when following feature are enabled PBR feature

Attribute Name: packet-max-length

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
        <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<match-condition>
<route-filter>
<packet-length-constraints> <!-- operation="delete"-->
    <packet-max-length>0</packet-max-length>
    <config>
        <packet-max-length>0</packet-max-length>
        <packet-min-length>0</packet-min-length>
    </config>
        <packet-min-length>0</packet-min-length>
</packet-length-constraints>
</route-filter>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match length <0-65535> <0-65535>
```

Configure community identifier

Use this attribute to specify the community to be matched.Communities are used to group and filter routes. They are designed to provide the ability to apply policies to large numbers of routes by using match and set commands.Community lists are used to identify and filter routes by their common attributes. This command allows the matching based on community lists.The values set by the match community command overrides the global values. The route that does not match at least one match clause is ignored.

Attribute Name: community-identifier

Attribute Type: union

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<communities>
<community> <!-- operation="delete"-->
   <community-identifier>RMAP_COMMUNITY_STRING_T</community-identifier>
   <config>
      <community-identifier>RMAP_COMMUNITY_STRING_T</community-identifier>
      <match-type>no-exact-match</match-type>
   </config>
</community>
</communities>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match community (WORD|<1-99>|<100-500>) ((exact-match)|)
```

Configure extended community identifier

Use this attribute to match BGP external community list.Communities are used to group and filter routes. They are designed to provide the ability to apply policies to large numbers of routes by using match and set commands. Community lists are used to identify and filter routes by their common attributes. This command allows the matching based on community lists. The values set by this command overrides the global values. The route that does not match at least one match clause is ignored

Attribute Name: extended-community-identifier

Attribute Type: union

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
    <match-condition>
    <extended-communities>
    <extended-community> <!-- operation="delete"-->
       <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-community-
identifier>
       <config>
          <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-
community-identifier>
          <match-type>no-exact-match</match-type>
       </config>
    </extended-community>
    </extended-communities>
    </match-condition>
    </routemap>
    </routemaps>
```

Command Syntax

```
     match extcommunity (WORD|<1-99>|<100-500>) ((exact-match)|)
```

Configure match type

Do exact matching of extcommunities

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
```

```
    <match-condition>
    <extended-communities>
    <extended-community>
       <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-community-
identifier>
       <config>
          <extended-community-identifier>RMAP_EXTCOMMUNITY_STRING_T</extended-
community-identifier>
       </config>
          <match-type>0</match-type> <!-- operation="delete"-->
    </extended-community>
    </extended-communities>
    </match-condition>
    </routemap>
    </routemaps>
```

Command Syntax

```
     no match extcommunity exact-match
```

Configure large community list identifier

Use this attribute to specify the community to be matched.Communities are used to group and filter routes. They are designed to provide the ability to apply policies to large numbers of routes by using match and set commands.Community lists are used to identify and filter routes by their common attributes. This command allows the matching based on community lists.The values set by the match community command overrides the global values. The route that does not match at least one match clause is ignored.

Attribute Name: large-community-list-identifier

Attribute Type: union

Attribute Name: match-type

Attribute Type: enum (no-exact-match|exact-match)

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
    <match-condition>
    <match-communities>
    <match-community> <!-- operation="delete"-->
       <large-community-list-identifier>RMAP_LARGE_COMMUNITY_STRING_T</large-community-
list-identifier>
       <config>
          <large-community-list-identifier>RMAP_LARGE_COMMUNITY_STRING_T</large-
community-list-identifier>
          <match-type>no-exact-match</match-type>
       </config>
```

```
</match-community>
</match-communities>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match large-community (WORD|<1-99>|<100-500>) ((exact-match)|)
```

Configure ip access list name

Use this attribute to specify the match address of route. If there is a match for the specified IP address, and permit is specified, the route is redistributed or controlled, as specified by the set action. If the match criteria are met, and deny is specified then the route is not redistributed or controlled. If the match criteria are not met, the route is neither accepted nor forwarded, irrespective of permit or deny specifications.The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes, depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: ip-access-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<ipv4>
<config>
      <ip-access-list-name>WORD</ip-access-list-name> <!-- operation="delete"-->
</config>
</ipv4>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match ip address WORD
```

Configure ip prefix list name

Use this attribute to match entries of a prefix-list. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: ip-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <match-condition>
   <ipv4>
   <config>
         <ip-prefix-list-name>WORD</ip-prefix-list-name> <!-- operation="delete"-->
   </config>
   </ipv4>
   </match-condition>
   </routemap>
   </routemaps>
```

Command Syntax

```
    match ip address prefix-list WORD
```

Configure peer access list name

Use this attribute to specify the match peer IPv4 address of a route.

Attribute Name: peer-access-list-name

Attribute Type: string

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <match-condition>
   <ipv4>
   <config>
         <peer-access-list-name>WORD</peer-access-list-name> <!-- operation="delete"--
>
   </config>
   </ipv4>
   </match-condition>
   </routemap>
   </routemaps>
```

Command Syntax

```
match ip peer WORD
```

Configure next hop prefix list name

Use this attribute to specify the next-hop IP address match criterion using the prefix-list. This command matches the next-hop IP address of a route.

Attribute Name: next-hop-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<ipv4>
<config>
      <next-hop-prefix-list-name>WORD</next-hop-prefix-list-name> <!--
operation="delete"-->
</config>
</ipv4>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match ip next-hop prefix-list WORD
```

Configure next hop access list name

Use this attribute to specify a next-hop address to be matched in a route-map. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

Attribute Name: next-hop-access-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
```

```
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
   <match-condition>
   <ipv4>
   <config>
          <next-hop-access-list-name>WORD</next-hop-access-list-name> <!--
operation="delete"-->
   </config>
   </ipv4>
   </match-condition>
   </routemap>
   </routemaps>
```

Command Syntax

```
match ip next-hop WORD
```

Configure ipv6 address access list name

Use this attribute to specify the match address of route. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-address-access-list-name

Attribute Type: string

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
   <match-condition>
   <ipv6>
   <config>
          <ipv6-address-access-list-name>WORD</ipv6-address-access-list-name> <!--
operation="delete"-->
   </config>
   </ipv6>
   </match-condition>
   </routemap>
   </routemaps>
```

Command Syntax

```
match ipv6 address WORD
```

Configure ipv6 prefix list name

Use this attribute to match entries of a prefix-list. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes, depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: ipv6-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <match-condition>
   <ipv6>
   <config>
          <ipv6-prefix-list-name>WORD</ipv6-prefix-list-name> <!-- operation="delete"--
>
   </config>
   </ipv6>
   </match-condition>
   </routemap>
   </routemaps>
```

Command Syntax

```
    match ipv6 address prefix-list WORD
```

Configure routemap name

Use this attribute to specify the match peer IPv6 address of a route.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: peer-access-list-name

Attribute Type: string

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
```

```
   <match-condition>
   <ipv6>
   <config>
          <peer-access-list-name>WORD</peer-access-list-name> <!-- operation="delete"--
>
   </config>
   </ipv6>
   </match-condition>
   </routemap>
   </routemaps>
```

Command Syntax

```
    match ipv6 peer WORD
```

Configure sequence id

Use this attribute to match entries of a prefix-list. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: next-hop-prefix-list-name

Attribute Type: string

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <match-condition>
   <ipv6>
   <config>
          <next-hop-prefix-list-name>WORD</next-hop-prefix-list-name> <!--
operation="delete"-->
   </config>
   </ipv6>
   </match-condition>
   </routemap>
   </routemaps>
```

Command Syntax

```
    match ipv6 next-hop prefix-list WORD
```

Configure next hop match string

Use this attribute to specify the next-hop address to be matched. The route specified by the policies might not be the same as specified by the routing protocols. Setting policies enable packets to take different routes depending on their length or content. Packet forwarding based on configured policies overrides packet forwarding specified in routing tables.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: next-hop-match-string

Attribute Type: union

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
<ipv6>
<config>
      <next-hop-match-string>RMAP_IPV6_NEXTHOP_T</next-hop-match-string>
</config>
</ipv6>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
 match ipv6 next-hop (WORD|X:X::X:X)
```

Configure mac list name

Use this attribute to match entries of a list.

Attribute Name: mac-list-name

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<match-condition>
```

```
<mac>
<config>
       <mac-list-name>WORD</mac-list-name> <!-- operation="delete"-->
</config>
</mac>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
 match mac address list WORD
```

Configure metric value

Use this command to set a metric value for a route and influence external neighbors about the preferred path into an Autonomous System (AS). The preferred path is the one with a lower metric value. A router compares metrics for paths from neighbors in the same ASs. To compare metrics from neighbors coming from different ASs, use the bgp always-compare-med command.To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met.If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: metric-value

Attribute Type: string

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
       <metric-value>WORD</metric-value> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set metric WORD
```

Configure forward interface type

Use this attributes to discard routes based on policy/rules configured for a route map.Route maps can be applied to BGP neighbors. When this command is given for a route map and that route map is applied to a BGP neighbor, the discard route entries are added by BGP for the prefix permitted by the route map.

Attribute Name: forward-interface-type

Attribute Type: enum (null0|tunnel-te)

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <config>
         <forward-interface-type>null0</forward-interface-type> <!--
operation="delete"-->
   </config>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set interface (null0|tunnel-te)
```

Configure route tag

Use this attribute to set a tag value. The parameter is the route tag that is labeled by another routing protocol (BGP or other IGP when redistributing), because AS-external-LSA has a route-tag field in its LSAs. In addition, when using route-map, OcNOS can tag the LSAs with the appropriate tag value. Sometimes the tag matches with using route-map, and sometimes, the value may be used by another application.

Attribute Name: route-tag

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
```

```
<set-action>
<config>
       <route-tag>1</route-tag> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set tag <1-4294967295>
```

Configure weight

Use this attribute to set weights for the routing table. The weight value is used to assist in best path selection. It is assigned locally to a router. When there are several routes with a common destination, the routes with a higher weight value are preferred. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met.

Attribute Name: weight

Attribute Type: uint32

Attribute Range: 0-65535

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
       <weight>0</weight> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set weight <0-65535>
```

Configure local preference

Use this attribute to set the BGP local preference path attribute

Attribute Name: local-preference

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
      <local-preference>0</local-preference> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set local-preference <0-4294967295>
```

Configure route origin type

Use this command to set the BGP origin code. The origin attribute defines the origin of the path information. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met.If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: route-origin-type

Attribute Type: enum (egp|igp|incomplete)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
      <route-origin-type>egp</route-origin-type> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set origin (egp|igp|incomplete)
```

Configure metric type

Use this command to set the metric type for the destination routing protocol. Select a type to be either Type-1 or Type2 in the AS-external-LSA when the route-map matches the condition.

Attribute Name: metric-type

Attribute Type: enum (type-1|type-2|internal|external)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
      <metric-type>type-1</metric-type> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set metric-type (type-1|type-2|internal|external)
```

Configure aigp metric

Use this command to set the AIGP metric for BGP protocol routes.

Attribute Name: aigp-metric

Attribute Type: union

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
      <aigp-metric>igp-metric</aigp-metric> <!-- operation="delete"-->
```

```
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set aigp-metric (igp-metric|<1-4294967295>)
```

Configure level type

Use this attribute to set the IS-IS level to export a route.

Attribute Name: level-type

Attribute Type: enum (level-1|level-2|level-1-2)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
      <level-type>level-1</level-type> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set level (level-1|level-2|level-1-2)
```

Configure enable as path tag

Use this command to modify an autonomous system path for a route. By specifying the length of the AS-Path, the router influences the best path selection by a neighbor

Attribute Name: enable-as-path-tag

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
```

```
    </config>
    <routemap-name>WORD</routemap-name>
<set-action>
<config>
       </enable-as-path-tag><!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set as-path tag
```

Configure atomic aggregate

Use this attribute to set an atomic aggregate attribute.To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met.If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: atomic-aggregate

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
        <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<set-action>
<config>
       </atomic-aggregate><!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set atomic-aggregate
```

Configure delete community value

Use this attribute to delete the matched communities from the community attribute of an inbound or outbound update when applying route-map.

Attribute Name: delete-community-value

Attribute Type: union

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
       <delete-community-value>RMAP_COMMUNITY_STRING_T</delete-community-value>
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set comm-list (WORD|<1-99>|<100-500>) delete
```

Configure delete large community value

Use this attribute to delete the matched large-communities from the community attribute of an inbound or outbound update when applying route-map.

Attribute Name: delete-large-community-value

Attribute Type: union

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
       <delete-large-community-value>RMAP_COMMUNITY_STRING_T</delete-large-
community-value>
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set large-comm-list (WORD|<1-99>|<100-500>) delete
```

Configure bgp originator id

Use this command to set the originator ID attribute. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met.If the packets do not match any of the defined criteria, they are routed through the normal routing process

Attribute Name: bgp-originator-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
      <bgp-originator-id>A.B.C.D</bgp-originator-id> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set originator-id A.B.C.D
```

Configure as path prepend

Use this attributes to modify an autonomous system path for a route. By specifying the length of the AS-Path, the router influences the best path selection by a neighbor.Use this command to prepend an AS path string to routes increasing the AS path length.To use this command, you must first give the match and set commands configure the conditions for redistributing routes from one routing protocol to another: 1. The match command specifies the match criteria under which redistribution is allowed for the current route-map. 2.The set command specifies the set redistribution actions to be performed if the match criteria are met.If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: as-path-prepend

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
```

```
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
    <set-action>
    <config>
          <as-path-prepend>1</as-path-prepend> <!-- operation="delete"-->
    </config>
    </set-action>
    </routemap>
    </routemaps>
```

Command Syntax

```
    set as-path prepend .<1-4294967295>
```

Configure ext community site of origin

Use this attribute to set an extended community attribute as Site-of-origin extended community.

Attribute Name: ext-community-site-of-origin

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
    <set-action>
    <config>
          <ext-community-site-of-origin>AA:NN_or_IP:nn</ext-community-site-of-origin>
<!-- operation="delete"-->
    </config>
    </set-action>
    </routemap>
    </routemaps>
```

Command Syntax

```
    set extcommunity soo .AA:NN_or_IP:nn
```

Configure ext community color

Use this attribute to set an extended community attribute color value

Attribute Name: ext-community-color

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<config>
      <ext-community-color>1</ext-community-color> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set extcommunity color <1-4294967295>
```

Configure track id

Use this attribute to configure track-id for next hop with oamd

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: ip-nexthop-address

Attribute Type: inet:ipv4-address

Attribute Name: verify-availability

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<ipv4>
<config>
      <ip-nexthop-address>A.B.C.D</ip-nexthop-address> <!-- operation="delete"-->
      </verify-availability><!-- operation="delete"-->
```

```
        <track-id>1</track-id> <!-- operation="delete"-->
</config>
</ipv4>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set ip next-hop A.B.C.D verify-availability track <1-500>
```

Configure ip nexthop address

Use this attribute to set the specified next-hop value.

Attribute Name: ip-nexthop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<ipv4>
<config>
        <ip-nexthop-address>A.B.C.D</ip-nexthop-address> <!-- operation="delete"-->
</config>
</ipv4>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set ip next-hop A.B.C.D
```

Configure use peer address

Use this attribute to set the next hop value as BGP peer-address

Attribute Name: use-peer-address

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
```

```
    <config>
       <sequence-id>1</sequence-id>
       <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<set-action>
<ipv4>
<config>
       </use-peer-address><!-- operation="delete"-->
</config>
</ipv4>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set ip next-hop peer-address
```

Configure ip nexthop self

Use this attribute to set the next hop self

Attribute Name: ip-nexthop-self

Attribute Type: empty

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
    <sequence-id>1</sequence-id>
    <config>
       <sequence-id>1</sequence-id>
       <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<set-action>
<ipv4>
<config>
       </ip-nexthop-self><!-- operation="delete"-->
</config>
</ipv4>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set ip next-hop self
```

Configure default nexthop address

Use this attribute to set the default next hop value

Attribute Name: default-nexthop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <ipv4>
   <config>
          <default-nexthop-address>A.B.C.D</default-nexthop-address> <!--
operation="delete"-->
   </config>
   </ipv4>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set ip default next-hop A.B.C.D
```

Configure vpnv4 nexthop address

Use this command to set a VPNv4 next-hop address. To use this command, you must first have a match clause. Match and set commands set the conditions for redistributing routes from one routing protocol to another. The match command specifies the match criteria under which redistribution is allowed for the current route-map. The set command specifies the set redistribution actions to be performed, if the match criteria are met. If the packets do not match any of the defined criteria, they are routed through the normal routing process.

Attribute Name: vpnv4-nexthop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <ipv4>
   <config>
```

```
          <vpnv4-nexthop-address>A.B.C.D</vpnv4-nexthop-address> <!--
operation="delete"-->
   </config>
   </ipv4>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set vpnv4 next-hop A.B.C.D
```

Configure ipv6 nexthop address

Use this attribute to configure track-id for next hop with oamd

Attribute Name: track-id

Attribute Type: uint16

Attribute Range: 1-500

Attribute Name: ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Attribute Name: verify-availability

Attribute Type: empty

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <ipv6>
   <config>
          <ipv6-nexthop-address>X:X::X:X</ipv6-nexthop-address> <!--
operation="delete"-->
          </verify-availability><!-- operation="delete"-->
          <track-id>1</track-id> <!-- operation="delete"-->
   </config>
   </ipv6>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set ipv6 next-hop X:X::X:X verify-availability track <1-500>
```

Configure ipv6 ipv6-nexthop-address

Use this attribute to set a next hop-address.

Attribute Name: ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <ipv6>
   <config>
          <ipv6-nexthop-address>X:X::X:X</ipv6-nexthop-address> <!--
operation="delete"-->
   </config>
   </ipv6>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set ipv6 next-hop X:X::X:X
```

Configure default ipv6 nexthop address

Use this attribute to set the default ipv6 next hop-address

Attribute Name: default-ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <ipv6>
   <config>
```

```
          <default-ipv6-nexthop-address>X:X::X:X</default-ipv6-nexthop-address> <!--
operation="delete"-->
   </config>
   </ipv6>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set ipv6 default next-hop X:X::X:X
```

Configure local ipv6 nexthop address

Use this attribute to set Local IPv6 address as next hop-address

Attribute Name: local-ipv6-nexthop-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <ipv6>
   <config>
          <local-ipv6-nexthop-address>X:X::X:X</local-ipv6-nexthop-address> <!--
operation="delete"-->
   </config>
   </ipv6>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set ipv6 next-hop local X:X::X:X
```

Configure aggregator ip address

IP address of aggregator.

Attribute Name: aggregator-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
```

```
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<bgp-aggregator-attributes>
<bgp-aggregator-attribute> <!-- operation="delete"-->
   <aggregator-ip-address>A.B.C.D</aggregator-ip-address>
   <config>
      <aggregator-ip-address>A.B.C.D</aggregator-ip-address>
      <as-number>1</as-number>
   </config>
      <as-number>1</as-number>
</bgp-aggregator-attribute>
</bgp-aggregator-attributes>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set aggregator as <1-4294967295> A.B.C.D
```

Configure ext community rt

use this attribute to set an Route target extended community

Attribute Name: ext-community-rt

Attribute Type: string

Attribute Range: 1-255

Attribute Name: additive-type

Attribute Type: enum (no-additive|additive)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<extended-community>
<route-targets>
<route-target> <!-- operation="delete"-->
   <ext-community-rt>AA:NN_or_IP:nn</ext-community-rt>
```

```
    <config>
        <ext-community-rt>AA:NN_or_IP:nn</ext-community-rt>
        <additive-type>no-additive</additive-type>
    </config>
</route-target>
</route-targets>
</extended-community>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set extcommunity rt .AA:NN_or_IP:nn ((additive)|)
```

Configure cost value

use this attribute to set Extended community cost value

Attribute Name: cost-value

Attribute Type: uint32

Attribute Range: 0-4294967295

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
        <routemap-name>WORD</routemap-name>
    </config>
    <routemap-name>WORD</routemap-name>
<set-action>
<extended-community>
<costs>
<cost> <!-- operation="delete"-->
    <cost-value>0</cost-value>
    <config>
        <cost-value>0</cost-value>
        <community-id>0</community-id>
        <comparison-type>no-comparision</comparison-type>
    </config>
        <community-id>0</community-id>
        <comparison-type>no-comparision</comparison-type>
</cost>
</costs>
</extended-community>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set extcommunity cost (igp|pre-bestpath|) <0-255> <0-4294967295>
```

Configure max suppress time limit

Maximum duration to suppress a stable route in minutes.

Attribute Name: max-suppress-time-limit

Attribute Type: uint8

Default Value: 60

Attribute Range: 1-255

Attribute Name: enable-dampening

Attribute Type: empty

Attribute Name: reachability-half-life-time

Attribute Type: uint8

Default Value: 15

Attribute Range: 1-45

Attribute Name: reuse-time-limit

Attribute Type: uint16

Default Value: 750

Attribute Range: 1-20000

Attribute Name: suppress-time-limit

Attribute Type: uint16

Default Value: 2000

Attribute Range: 1-20000

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <dampening>
   <config>
         </enable-dampening><!-- operation="delete"-->
         <reachability-half-life-time>1</reachability-half-life-time> <!--
operation="delete"-->
         <reuse-time-limit>1</reuse-time-limit> <!-- operation="delete"-->
         <suppress-time-limit>1</suppress-time-limit> <!-- operation="delete"-->
```

```
          <max-suppress-time-limit>1</max-suppress-time-limit> <!-- operation="delete"-
->
    </config>
    </dampening>
    </set-action>
    </routemap>
    </routemaps>
```

Command Syntax

```
     set dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure unreachability half life time

Un-reachability half-life time for the penalty in minutes.

Attribute Name: unreachability-half-life-time

Attribute Type: uint8

Default Value: 15

Attribute Range: 1-45

Attribute Name: enable-dampening

Attribute Type: empty

Attribute Name: reachability-half-life-time

Attribute Type: uint8

Default Value: 15

Attribute Range: 1-45

Attribute Name: reuse-time-limit

Attribute Type: uint16

Default Value: 750

Attribute Range: 1-20000

Attribute Name: suppress-time-limit

Attribute Type: uint16

Default Value: 2000

Attribute Range: 1-20000

Attribute Name: max-suppress-time-limit

Attribute Type: uint8

Default Value: 60

Attribute Range: 1-255

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
       <config>
```

```
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
   <set-action>
   <dampening>
   <config>
          </enable-dampening><!-- operation="delete"-->
          <reachability-half-life-time>1</reachability-half-life-time> <!--
operation="delete"-->
          <reuse-time-limit>1</reuse-time-limit> <!-- operation="delete"-->
          <suppress-time-limit>1</suppress-time-limit> <!-- operation="delete"-->
          <max-suppress-time-limit>1</max-suppress-time-limit> <!-- operation="delete"-
->
          <unreachability-half-life-time>1</unreachability-half-life-time> <!--
operation="delete"-->
   </config>
   </dampening>
   </set-action>
   </routemap>
   </routemaps>
```

Command Syntax

```
    set dampening <1-45> <1-20000> <1-20000> <1-255> <1-45>
```

Configure enable dampening

Use this attribute to enable route dampening and set various parameters. Route dampening minimizes the instability caused by route flapping. A penalty is added for every flap in a flapping route. As soon as the total penalty reaches the suppress limit the advertisement of the route is suppressed. This penalty is decayed according to the configured half time value. Once the penalty is lower than the reuse limit, the route advertisement is unsuppressed. The dampening information is purged from the router once the penalty becomes less than half of the reuse limit.Reachability half-life time for the penalty in minutes. The time for the penalty to decrease to one-half of its current value.

Attribute Name: enable-dampening

Attribute Type: empty

Netconf edit-config payload

```
   <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
   <routemap>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
         <routemap-name>WORD</routemap-name>
      </config>
      <routemap-name>WORD</routemap-name>
   <set-action>
   <dampening>
   <config>
          </enable-dampening>
   </config>
```

```
    </dampening>
    </set-action>
    </routemap>
    </routemaps>
```

Command Syntax

```
     set dampening
```

Configure community with as number

Autonomous system (AS) number and network number entered in the 4-byte new community format. This value is configured with two 2-byte numbers separated by a colon. A number from 1 to 65535 can be entered as each 2-byte number. A single community can be entered or multiple communities can be entered, each separated by a space.

Attribute Name: community-with-as-number

Attribute Type: string

Attribute Name: additive-set

Attribute Type: empty

Netconf edit-config payload

```
    <routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
    <routemap>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
          <routemap-name>WORD</routemap-name>
       </config>
       <routemap-name>WORD</routemap-name>
    <set-action>
    <communities>
    <config>
           </additive-set><!-- operation="delete"-->
           <community-with-as-number>AA:NN</community-with-as-number> <!--
operation="delete"-->
    </config>
    </communities>
    </set-action>
    </routemap>
    </routemaps>
```

Command Syntax

```
     set community-additive .AA:NN
```

Configure large community number set

use this attribute to set a large community

Attribute Name: large-community-number-set

Attribute Type: string

Attribute Range: 1-255

Attribute Name: additive-type

Attribute Type: enum (no-additive|additive)

Netconf edit-config payload

```
<routemaps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-routemap">
<routemap>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
      <routemap-name>WORD</routemap-name>
   </config>
   <routemap-name>WORD</routemap-name>
<set-action>
<large-communities>
<large-community> <!-- operation="delete"-->
   <large-community-number-set>AAaa:NNnn:ZZzz</large-community-number-set>
   <config>
      <large-community-number-set>XXX:YYYY:ZZZ</large-community-number-set>
      <additive-type>no-additive</additive-type>
   </config>
</large-community>
</large-communities>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
 set large-community .AAaa:NNnn:ZZzz ((additive)|)
```

IPI-RIP

Configure options

This attribute enables debugging for RIP

Attribute Name: options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<debug>
<config>
   <options>all</options> <!-- operation="delete"-->
</config>
</debug>
</rip>
```

Command Syntax

```
debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)
```

Configure split horizon

Use this attribute to controls RIP split-horizon processing on the specified interface.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <split-horizon>true</split-horizon> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip split-horizon
```

Configure name

Use this attribute to controls RIP split-horizon processing on the specified interface.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <split-horizon>true</split-horizon> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
no ip rip split-horizon
```

Configure disable receive packet

Use this attribute to configure the interface to enable/disable the reception of RIP packets

Attribute Name: disable-receive-packet

Attribute Type: uint8

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </disable-receive-packet><!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
no ip rip receive-packet
```

Configure disable send packet

Use this attribute to enable/disable sending RIP packets through current interface

Attribute Name: disable-send-packet

Attribute Type: uint8

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </disable-send-packet><!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
no ip rip send-packet
```

Configure receive version

Use this attribute to receive specified version of RIP packets on an interface

Attribute Name: receive-version

Attribute Type: enum (1|2|1 2|1-compatible)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <receive-version>1</receive-version> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip receive version (1|2|1 2)
```

Configure send version

Use this attribute to set the version of RIP packets which can be sent from an interface

Attribute Name: send-version

Attribute Type: enum (1|2|1 2|1-compatible)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <send-version>1</send-version> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip send version (1|2|1 2|1-compatible)
```

Configure auth mode

Use this attrbute to set the type of authentication mode used for RIP packets

Attribute Name: auth-mode

Attribute Type: enum (text|md5)

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <auth-mode>text</auth-mode> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip authentication mode (text|md5)
```

Configure auth string

Use this attribute to set the authentication string or password used by a key

Attribute Name: auth-string

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <auth-string>LINE</auth-string> <!-- operation="delete"-->
</interface>
</interfaces>
</rip>
```

Command Syntax

```
ip rip authentication string LINE
```

Configure auth keychain

Use this attribute to enable RIP authentication on an interface and specify the name of the key chain to be used

Attribute Name: auth-keychain

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<interfaces>
<interface>
```

```
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <auth-keychain>LINE</auth-keychain> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </rip>
```

Command Syntax

```
ip rip authentication key-chain LINE
```

Configure rip enabled

Use this attribute enable a RIP routing process

Attribute Name: rip-enabled

Attribute Type: uint8

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   </rip-enabled>
</config>
</instance>
</rip>
```

Command Syntax

```
router rip
```

Configure bfd enable

This feature indicates that the RIP implementation on the system supports BFD

Attribute Name: bfd-enable

Attribute Type: empty

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   </bfd-enable><!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
bfd all-interfaces
```

Configure receive buffer size

Use this attribute to set the RIP UDP receive-buffer size.

Attribute Name: receive-buffer-size

Attribute Type: uint32

Default Value: 32768

Attribute Range: 8192-2147483647

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <receive-buffer-size>8192</receive-buffer-size> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
recv-buffer-size <8192-2147483647>
```

Configure passive interfaces

Disables sending of RIP packets on the specified interface

Attribute Name: passive-interfaces

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <passive-interfaces>IFNAME</passive-interfaces> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
passive-interface IFNAME
```

Configure static routes

Use this attribute to set static RIP routes

Attribute Name: static-routes

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
```

```
<instance>
<config>
   <static-routes>A.B.C.D/M</static-routes> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
route A.B.C.D/M
```

Configure neighbors

Specifies the RIP neighbors

Attribute Name: neighbors

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <neighbors>A.B.C.D</neighbors> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
neighbor A.B.C.D
```

Configure neighbor fall over bfd

Specified the BFD neighbors

Attribute Name: neighbor-fall-over-bfd

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <neighbor-fall-over-bfd>A.B.C.D</neighbor-fall-over-bfd> <!--
operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
neighbor A.B.C.D fall-over bfd
```

Configure enable cisco metric behavior

Use this attribute to set metric updation behavior as Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
   <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
   <instance>
   <config>
      <enable-cisco-metric-behavior>disable</enable-cisco-metric-behavior> <!--
operation="delete"-->
   </config>
   </instance>
   </rip>
```

Command Syntax

```
    cisco-metric-behavior (disable|enable)
```

Configure default metric

Set the default metric

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
   <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
   <instance>
   <config>
      <default-metric>1</default-metric> <!-- operation="delete"-->
   </config>
   </instance>
   </rip>
```

Command Syntax

```
    default-metric <1-15>
```

Configure version

Use this attribute to set version of routing protocol

Attribute Name: version

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-2

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <version>1</version> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
version <1-2>
```

Configure distance

Use this attribute to set administrative distance of the RIP for the current RIP instance

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <distance>1</distance> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
distance <1-255>
```

Configure network interfaces

Use this attribute to enable routing on an interface

Attribute Name: network-interfaces

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <network-interfaces>IFNAME</network-interfaces> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
network IFNAME
```

Configure network routes

Use this attribute to enable routing on an IP network

Attribute Name: network-routes

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<config>
   <network-routes>A.B.C.D/M</network-routes> <!-- operation="delete"-->
</config>
</instance>
</rip>
```

Command Syntax

```
network A.B.C.D/M
```

Configure access list name

Use this attribute to set the access list name

Attribute Name: access-list-name

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<distances>
<distance>
   <source-prefix>A.B.C.D/M</source-prefix>
   <config>
      <source-prefix>A.B.C.D/M</source-prefix>
      <distance>1</distance>
   </config>
   <access-list-name>WORD</access-list-name>
</distance>
</distances>
</instance>
</rip>
```

Command Syntax

```
distance <1-255> A.B.C.D/M (WORD|)
```

Configure route table update interval

Interval at which RIP updates are sent

Attribute Name: route-table-update-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: route-info-timeout-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: garbage-collection-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<timers>
<config>
   <route-info-timeout-interval>5</route-info-timeout-interval>
   <garbage-collection-interval>5</garbage-collection-interval>
   <route-table-update-interval>5</route-table-update-interval>
</config>
</timers>
</instance>
</rip>
```

Command Syntax

```
timers basic <5-2147483647> <5-2147483647> <5-2147483647>
```

Configure warning threshold percentage

Use this attribute to set the percentage of maximum routes to generate a warning

Attribute Name: warning-threshold-percentage

Attribute Type: uint32

Attribute Range: 1-100

Attribute Name: max-routes

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
    <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
    <instance>
    <maximum-prefix>
    <config>
       <max-routes>1</max-routes> <!-- operation="delete"-->
       <warning-threshold-percentage>1</warning-threshold-percentage> <!--
operation="delete"-->
    </config>
    </maximum-prefix>
    </instance>
    </rip>
```

Command Syntax

```
     maximum-prefix <1-65535> (<1-100>|)
```

Configure route type

Use this attribute to redistributes only specified route-type routes matching the specified route type into the RIP routing instance

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf|isis|bgp)

Netconf edit-config payload

```
    <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
    <instance>
    <redistribute-policies>
    <redistribute-policy> <!-- operation="delete"-->
       <route-type>connected</route-type>
       <config>
          <route-type>connected</route-type>
       </config>
    </redistribute-policy>
    </redistribute-policies>
    </instance>
    </rip>
```

Command Syntax

```
     redistribute (connected|static|ospf|isis|bgp)
```

Configure route map

Use this attribute to set th route-map

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<redistribute-policies>
<redistribute-policy>
   <route-type>connected</route-type>
   <config>
      <route-type>connected</route-type>
      <metric>0</metric> <!-- operation="delete"-->
   </config>
   <route-map>WORD</route-map> <!-- operation="delete"-->
</redistribute-policy>
</redistribute-policies>
</instance>
</rip>
```

Command Syntax

```
redistribute (connected|static|ospf|isis|bgp) metric <0-16> route-map WORD
```

Configure metric

Metric used for the redistributed route

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<redistribute-policies>
<redistribute-policy>
   <route-type>connected</route-type>
   <config>
      <route-type>connected</route-type>
   </config>
   <metric>0</metric> <!-- operation="delete"-->
</redistribute-policy>
</redistribute-policies>
</instance>
</rip>
```

Command Syntax

```
redistribute (connected|static|ospf|isis|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to set th route-map

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<redistribute-policies>
<redistribute-policy>
   <route-type>connected</route-type>
   <config>
      <route-type>connected</route-type>
   </config>
   <route-map>WORD</route-map> <!-- operation="delete"-->
</redistribute-policy>
</redistribute-policies>
</instance>
</rip>
```

Command Syntax

```
 redistribute (connected|static|ospf|isis|bgp) route-map WORD
```

Configure originate

Use this attribute to apply conditions of the route policy to the default route

Attribute Name: route-map

Attribute Type: string

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise

Attribute Type: empty

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<default-information>
<config>
   </originate><!-- operation="delete"-->
   </always-advertise><!-- operation="delete"-->
   <route-map>WORD</route-map> <!-- operation="delete"-->
</config>
</default-information>
</instance>
</rip>
```

Command Syntax

```
default-information originate (always|) (route-map WORD|)
```

Configure direction

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<offset-lists>
<offset-list>
   <direction>in</direction>
   <config>
      <direction>in</direction>
      <access-list-name>WORD</access-list-name>
   </config>
   <metric>0</metric>
</offset-list>
</offset-lists>
</instance>
</rip>
```

Command Syntax

```
offset-list WORD (in|out) <0-16>
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<distribute-filter-lists>
<distribute-filter-list>
   <direction>in</direction>
   <config>
```

```
        <direction>in</direction>
        <access-list-name>WORD</access-list-name>
     </config>
  </distribute-filter-list>
  </distribute-filter-lists>
  </instance>
  </rip>
```

Command Syntax

```
distribute-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
  <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
  <instance>
  <distribute-prefix-lists>
  <distribute-prefix-list>
     <direction>in</direction>
     <config>
        <direction>in</direction>
        <access-list-name>WORD</access-list-name>
     </config>
  </distribute-prefix-list>
  </distribute-prefix-lists>
  </instance>
  </rip>
```

Command Syntax

```
distribute-list prefix WORD (in|out)
```

Configure offset-list metric

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<offset-lists>
<offset-list>
   <direction>in</direction>
   <config>
      <direction>in</direction>
      <access-list-name>WORD</access-list-name>
   </config>
      <metric>0</metric>
</offset-list>
</offset-lists>
</interface>
</interfaces>
</instance>
</rip>
```

Command Syntax

```
 offset-list WORD (in|out) <0-16> IFNAME
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
<distribute-filter-lists>
<distribute-filter-list>
   <direction>in</direction>
   <config>
```

```
        <direction>in</direction>
        <access-list-name>WORD</access-list-name>
    </config>
</distribute-filter-list>
</distribute-filter-lists>
</interface>
</interfaces>
</instance>
</rip>
```

Command Syntax

```
distribute-list WORD (in|out) IFNAME
```

Configure distribute-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<interfaces>
<interface>
    <name>IFNAME</name>
    <config>
        <name>IFNAME</name>
    </config>
<distribute-prefix-lists>
<distribute-prefix-list>
    <direction>in</direction>
    <config>
        <direction>in</direction>
        <access-list-name>WORD</access-list-name>
    </config>
</distribute-prefix-list>
</distribute-prefix-lists>
</interface>
</interfaces>
</instance>
</rip>
```

Command Syntax

```
distribute-list prefix WORD (in|out) IFNAME
```

clear ip rip route (connected|static|ospf|isis|bgp|rip|all)

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf|isis|bgp|rip|all)

Netconf RPC payload

```
<rip-clear-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<route-type>connected</route-type>
</rip-clear-route>
```

Command Syntax

```
clear ip rip route (connected|static|ospf|isis|bgp|rip|all)
```

clear ip rip route A.B.C.D/M

Attribute Name: prefix-address

Attribute Type: string

Netconf RPC payload

```
<rip-clear-route-prefix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<prefix-address>A.B.C.D/M</prefix-address>
</rip-clear-route-prefix>
```

Command Syntax

```
clear ip rip route A.B.C.D/M
```

clear ip rip statistics (IFNAME|)

Attribute Name: name

Attribute Type: string

Default Value: NULL

Netconf RPC payload

```
<rip-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<name>IFNAME</name>
</rip-clear-statistics>
```

Command Syntax

```
clear ip rip statistics (IFNAME|)
```

snmp restart rip

Netconf RPC payload

```
<rip-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip"/>
```

Command Syntax

```
snmp restart rip
```

debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Netconf RPC payload

```
<rip-terminal-debugging-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<terminal-debug-options>all</terminal-debug-options>
</rip-terminal-debugging-on>
```

Command Syntax

```
debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)
```

no debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)

Netconf RPC payload

```
<rip-terminal-debugging-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
rip">
<terminal-debug-options>all</terminal-debug-options>
</rip-terminal-debugging-off>
```

Command Syntax

```
no debug rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|bfd)
```

IPI-RIP-VRF

Configure vrf name

VRF name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
<vrfs>
<vrf> <!-- operation="delete"-->
<vrf-name>NAME</vrf-name>
```

```
          <config>
             <vrf-name>WORD</vrf-name>
          </config>
       </vrf>
    </vrfs>
    </instance>
    </rip>
```

Command Syntax

```
     address-family ipv4 vrf NAME
```

Configure enable cisco metric behavior

Use this attribute to set metric updation behavior as Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
    <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
    <instance>
       <vrfs>
       <vrf>
          <vrf-name>NAME</vrf-name>
          <config>
             <vrf-name>WORD</vrf-name>
          </config>
             <enable-cisco-metric-behavior>disable</enable-cisco-metric-behavior> <!--
operation="delete"-->
       </vrf>
    </vrfs>
    </instance>
    </rip>
```

Command Syntax

```
     cisco-metric-behavior (disable|enable)
```

Configure default metric

Set the default metric

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
    <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
    <instance>
```

```
    <vrfs>
    <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>WORD</vrf-name>
        </config>
            <default-metric>1</default-metric> <!-- operation="delete"-->
    </vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
default-metric <1-15>
```

Configure version

Use this attribute to set version of routing protocol

Attribute Name: version

Attribute Type: uint8

Default Value: 2

Attribute Range: 1-2

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
    <vrfs>
    <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>WORD</vrf-name>
        </config>
            <version>1</version> <!-- operation="delete"-->
    </vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
version <1-2>
```

Configure distance

Use this attribute to set administrative distance of the RIP for the current RIP instance

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
   <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <distance>1</distance> <!-- operation="delete"-->
      </vrf>
   </vrfs>
   </instance>
   </rip>
```

Command Syntax

```
    distance <1-255>
```

Configure network interfaces

Use this attribute to enable routing on an interface

Attribute Name: network-interfaces

Attribute Type: string

Netconf edit-config payload

```
   <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <network-interfaces>IFNAME</network-interfaces> <!-- operation="delete"--
>
      </vrf>
   </vrfs>
   </instance>
   </rip>
```

Command Syntax

```
    network IFNAME
```

Configure network routes

Use this attribute to enable routing on an IP network

Attribute Name: network-routes

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
         <network-routes>A.B.C.D/M</network-routes> <!-- operation="delete"-->
   </vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
 network A.B.C.D/M
```

Configure access list name

Use this attribute to set the access list name

Attribute Name: access-list-name

Attribute Type: string

Attribute Name: distance

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <distances>
      <distance>
         <source-prefix>A.B.C.D/M</source-prefix>
         <config>
            <source-prefix>A.B.C.D/M</source-prefix>
            <distance>1</distance>
         </config>
            <access-list-name>WORD</access-list-name>
```

```
        </distance>
      </distances>
   </vrf>
   </vrfs>
   </instance>
   </rip>
```

Command Syntax

```
distance <1-255> A.B.C.D/M (WORD|)
```

Configure route type

Use this attribute to redistributes only specified route-type routes matching the specified route type into the RIP routing instance

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf|bgp)

Netconf edit-config payload

```
   <rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
         <redistribute-policies>
         <redistribute-policy> <!-- operation="delete"-->
            <route-type>connected</route-type>
            <config>
               <route-type>connected</route-type>
            </config>
         </redistribute-policy>
      </redistribute-policies>
   </vrf>
   </vrfs>
   </instance>
   </rip>
```

Command Syntax

```
redistribute (connected|static|ospf|bgp)
```

Configure route map

Use this attribute to set the name of the route-map

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <redistribute-policies>
      <redistribute-policy>
         <route-type>connected</route-type>
         <config>
            <route-type>connected</route-type>
            <metric>0</metric> <!-- operation="delete"-->
         </config>
            <route-map>WORD</route-map> <!-- operation="delete"-->
      </redistribute-policy>
   </redistribute-policies>
</vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
 redistribute (connected|static|ospf|bgp) metric <0-16> route-map WORD
```

Configure metric

Use this attribute to set the metric used for the redistributed route

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <redistribute-policies>
      <redistribute-policy>
```

```
            <route-type>connected</route-type>
            <config>
               <route-type>connected</route-type>
            </config>
               <metric>0</metric> <!-- operation="delete"-->
         </redistribute-policy>
      </redistribute-policies>
   </vrf>
   </vrfs>
   </instance>
   </rip>
```

Command Syntax

```
redistribute (connected|static|ospf|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to set the name of the route-map

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <redistribute-policies>
      <redistribute-policy>
         <route-type>connected</route-type>
         <config>
            <route-type>connected</route-type>
         </config>
            <route-map>WORD</route-map> <!-- operation="delete"-->
      </redistribute-policy>
   </redistribute-policies>
</vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
redistribute (connected|static|ospf|bgp) route-map WORD
```

Configure originate

Use this attribute to apply conditions of the route policy to the default route

Attribute Name: route-map

Attribute Type: string

Attribute Name: originate

Attribute Type: empty

Attribute Name: always-advertise

Attribute Type: empty

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <default-information>
      <config>
             </originate><!-- operation="delete"-->
             </always-advertise><!-- operation="delete"-->
             <route-map>WORD</route-map> <!-- operation="delete"-->
      </config>
   </default-information>
</vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
 default-information originate (always|) (route-map WORD|)
```

Configure direction

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
```

```
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <offset-lists>
      <offset-list>
         <direction>in</direction>
         <config>
            <direction>in</direction>
            <access-list-name>WORD</access-list-name>
         </config>
            <metric>0</metric>
      </offset-list>
   </offset-lists>
</vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
 offset-list WORD (in|out) <0-16>
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <distribute-filter-lists>
      <distribute-filter-list>
         <direction>in</direction>
         <config>
            <direction>in</direction>
            <access-list-name>WORD</access-list-name>
```

```
            </config>
         </distribute-filter-list>
      </distribute-filter-lists>
   </vrf>
   </vrfs>
   </instance>
   </rip>
```

Command Syntax

```
distribute-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <distribute-prefix-lists>
      <distribute-prefix-list>
         <direction>in</direction>
         <config>
            <direction>in</direction>
            <access-list-name>WORD</access-list-name>
         </config>
      </distribute-prefix-list>
   </distribute-prefix-lists>
</vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
distribute-list prefix WORD (in|out)
```

Configure name

Use this attribute to set the metric value of routing protocol

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
            <name>IFNAME</name>
         </config>
         <offset-lists>
         <offset-list>
            <direction>in</direction>
            <config>
               <direction>in</direction>
               <access-list-name>WORD</access-list-name>
            </config>
               <metric>0</metric>
         </offset-list>
      </offset-lists>
   </interface>
</interfaces>
</vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
offset-list WORD (in|out) <0-16> IFNAME
```

Configure distribute-filter-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
            <name>IFNAME</name>
         </config>
         <distribute-filter-lists>
         <distribute-filter-list>
            <direction>in</direction>
            <config>
               <direction>in</direction>
               <access-list-name>WORD</access-list-name>
            </config>
         </distribute-filter-list>
      </distribute-filter-lists>
   </interface>
</interfaces>
</vrf>
</vrfs>
</instance>
</rip>
```

Command Syntax

```
distribute-list WORD (in|out) IFNAME
```

Configure distribute-prefix-list direction

Use this attribute to set direction of the routing updates

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<rip xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rip">
<instance>
   <vrfs>
```

```
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
         <interfaces>
         <interface>
            <name>IFNAME</name>
            <config>
               <name>IFNAME</name>
            </config>
            <distribute-prefix-lists>
            <distribute-prefix-list>
               <direction>in</direction>
               <config>
                  <direction>in</direction>
                  <access-list-name>WORD</access-list-name>
               </config>
            </distribute-prefix-list>
         </distribute-prefix-lists>
      </interface>
   </interfaces>
   </vrf>
   </vrfs>
   </instance>
   </rip>
```

Command Syntax

```
distribute-list prefix WORD (in|out) IFNAME
```

clear ip rip route vrf NAME A.B.C.D/M

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
      <ipi-rip-vrf_rip-vrf-clear-route xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rip">
      <vrf-name>NAME</vrf-name>
      <prefix>A.B.C.D/M</prefix>
      </ipi-rip-vrf_rip-vrf-clear-route>
```

Command Syntax

```
clear ip rip route vrf NAME A.B.C.D/M
```

clear ip rip route vrf NAME *

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <ipi-rip-vrf_rip-vrf-clear-route-all xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rip">
       <vrf-name>NAME</vrf-name>
       </ipi-rip-vrf_rip-vrf-clear-route-all>
```

Command Syntax

```
    clear ip rip route vrf NAME *
```

IPI-PBR

Configure enabled

Use this attribute to enable pbr support

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
   <pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pbr">
   <config>
      </enabled><!-- operation="delete"-->
   </config>
   </pbr>
```

Command Syntax

```
    feature pbr
```

Configure route map name

Use this attribute to set ip policy for route-map.

Attribute Name: route-map-name

Attribute Type: string

Netconf edit-config payload

```
   <pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pbr">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
```

```
      <route-map-name>WORD</route-map-name> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </pbr>
```

Command Syntax

```
    ip policy route-map WORD
```

Configure route map v6 name

Use this attribute to set ipv6 policy for route-map.

Attribute Name: route-map-v6-name

Attribute Type: string

Netconf edit-config payload

```
   <pbr xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pbr">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <route-map-v6-name>WORD</route-map-v6-name> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </pbr>
```

Command Syntax

```
    ipv6 policy route-map WORD
```

clear route-map WORD pbr-statistics

Attribute Name: route-map-name

Attribute Type: string

Netconf RPC payload

```
      <clear-route-map-pbr-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
pbr">
      <route-map-name>WORD</route-map-name>
      </clear-route-map-pbr-statistics>
```

Command Syntax

```
    clear route-map WORD pbr-statistics
```

IPI-SNMP

Configure enable link down trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->
   <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->
</config>
</server-traps>
</snmp>
```

Command Syntax

```
 snmp-server enable traps link
```

Configure enable link up trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->
   <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->
</config>
</server-traps>
</snmp>
```

Command Syntax

```
no snmp-server enable traps link
```

Configure include interface name

Use this attribute to include ifname with SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: include-interface-name

Attribute Type: uint8

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   </include-interface-name><!-- operation="delete"-->
</config>
</server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps link include-interface-name
```

Configure server-traps enable-link-down-trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->
</config>
</server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps link linkDown
```

Configure server-traps enable-link-down-trap

Use this attribute to enable or disable SNMP linkdown traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-down-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   <enable-link-down-trap>true</enable-link-down-trap> <!-- operation="delete"-->
</config>
</server-traps>
</snmp>
```

Command Syntax

```
no snmp-server enable traps link linkDown
```

Configure server-traps enable-link-up-trap

Use this attribute to enable or disable SNMP linkup traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->
</config>
</server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps link linkUp
```

Configure server-traps enable-link-up-trap

Use this attribute to enable or disable SNMP linkup traps.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-link-up-trap

Attribute Type: boolean

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   <enable-link-up-trap>true</enable-link-up-trap> <!-- operation="delete"-->
</config>
</server-traps>
```

```
</snmp>
```

Command Syntax

```
no snmp-server enable traps link linkUp
```

Configure enable traps

Use this attribute to enable or disable SNMP traps and inform requests.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-traps

Attribute Type: bits (snmp authentication|mpls|pw|pwdelete|rsvp|ospf|bgp|isis|vrrp|vxlan|ospf6|mplsl3vpn|rib|pim|syslog|twamp|alarms)

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<config>
   <enable-traps>snmp authentication</enable-traps> <!-- operation="delete"-->
</config>
</server-traps>
</snmp>
```

Command Syntax

```
snmp-server enable traps (snmp
  authentication|mpls|pw|pwdelete|rsvp|ospf|bgp|isis|vrrp|vxlan|ospf6|mplsl3vpn|ri
  b|pim|syslog|twamp|alarms)
```

Configure enable trap cache

Enables trap caching

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: enable-trap-cache

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<trap-cache>
<config>
   </enable-trap-cache>
</config>
</trap-cache>
</server-traps>
</snmp>
```

Command Syntax

```
snmp-server trap-cache
```

Configure timeout

Sets timeout before sending traps

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: timeout

Attribute Type: int8

Default Value: 10

Attribute Range: 1-20

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<trap-cache>
<config>
   <timeout>1</timeout> <!-- operation="delete"-->
</config>
</trap-cache>
</server-traps>
</snmp>
```

Command Syntax

```
timeout <1-20>
```

Configure disable ping

Disables pings to check host reachability

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: disable-ping

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<trap-cache>
<config>
   </disable-ping><!-- operation="delete"-->
</config>
</trap-cache>
</server-traps>
</snmp>
```

Command Syntax

```
disable-ping
```

Configure max count

Sets the maximum number of traps that can be cached

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: max-count

Attribute Type: int16

Default Value: 200

Attribute Range: 1-500

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<server-traps>
<trap-cache>
<config>
   <max-count>1</max-count> <!-- operation="delete"-->
</config>
</trap-cache>
</server-traps>
</snmp>
```

Command Syntax

```
max-count <1-500>
```

debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Attribute Name: debug

Attribute Type: bits (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Netconf RPC payload

```
      <snmp-agentx-enable-terminal-debugging xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-snmp">
      <debug>snmp send</debug>
      </snmp-agentx-enable-terminal-debugging>
```

Command Syntax

```
debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp
  detail|snmp|snmp all)
```

no debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Attribute Name: debug

Attribute Type: bits (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp detail|snmp|snmp all)

Netconf RPC payload

```
       <snmp-agentx-disable-terminal-debugging xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-snmp">
       <debug>snmp send</debug>
       </snmp-agentx-disable-terminal-debugging>
```

Command Syntax

```
    no debug (snmp send|snmp receive|snmp process|snmp xdump|snmp error-string|snmp
      detail|snmp|snmp all)
```

IPI-SNMP-SERVER

Configure vrf name

VRF name associated with this instance.

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
         </enabled>
      </config>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server enable snmp (vrf (NAME|management)|)
```

Configure system contact

Use this attribute to set the system contact information for the device (sysContact object)

Attribute Name: system-contact

Attribute Type: string

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
```

```
<server>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <global>
   <config>
         <system-contact>LINE</system-contact> <!-- operation="delete"-->
   </config>
</global>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server contact (vrf (NAME|management)|) LINE
```

Configure system location

Use this attribute to set the physical location information of the device (sysLocation object)

Attribute Name: system-location

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
<server>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <global>
   <config>
         <system-location>LINE</system-location> <!-- operation="delete"-->
   </config>
</global>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server location (vrf (NAME|management)|) LINE
```

Configure tcp session enabled

Use this attribute to start the SNMP agent daemon over TCP

Attribute Name: tcp-session-enabled

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
<server>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
   </config>
   <global>
   <config>
         </tcp-session-enabled><!-- operation="delete"-->
   </config>
</global>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server tcp-session (vrf (NAME|management)|)
```

Configure disable default instance

Use this attribute to prevent default snmp instance from being enabled at start up

Attribute Name: disable-default-instance

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
<default-instance>
<config>
      </disable-default-instance><!-- operation="delete"-->
</config>
</default-instance>
</servers>
</snmp>
```

Command Syntax

```
snmp-server disable-default
```

Configure ent ipi iftable

Use this attribute to enable separate logical/physical interface tables

Attribute Name: ent-ipi-iftable

Attribute Type: empty

Netconf edit-config payload

```
<custom xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
```

```
<config>
   </ent-ipi-iftable><!-- operation="delete"-->
</config>
</custom>
```

Command Syntax

```
snmp ent-ipi-iftable
```

IPI-SNMP-SERVER-EXTENDED

Configure include directive

Use this attribute to create and include extension directory for snmp-dir

Attribute Name: include-directive

Attribute Type: empty

Netconf edit-config payload

```
<snmp-dir xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
<config>
   </include-directive><!-- operation="delete"-->
</config>
</snmp-dir>
```

Command Syntax

```
snmp-server include-directive
```

Configure enable

Use this attribute to enable/disable SNMP server debugging

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <debug xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
   <config>
          </enable><!-- operation="delete"-->
   </config>
</debug>
</servers>
</snmp>
```

Command Syntax

```
debug snmp-server
```

Configure filter type

Use this attribute to update oid tree filter type for a view entry.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: filter-type

Attribute Type: enum (included|excluded)

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <snmp-views xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <snmp-view>
            <view-name>VIEW-NAME</view-name>
            <config>
               <view-name>VIEW-NAME</view-name>
            </config>
            <oid-trees>
            <oid-tree>
               <oid>OID-TREE</oid>
               <config>
                  <oid>OID-TREE</oid>
               </config>
                  <filter-type>included</filter-type> <!-- operation="delete"-->
            </oid-tree>
         </oid-trees>
      </snmp-view>
   </snmp-views>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server view VIEW-NAME OID-TREE (included|excluded) (vrf (NAME|management)|)
```

Configure engine id

Use this attribute to configure SNMPv3 engine ID.

This command is supported when following feature are enabled snmp version v3

Attribute Name: engine-id

Attribute Type: string

Attribute Range: 1-24

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<engine-id xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
<config>
       <engine-id>ENGINE_ID_STR</engine-id> <!-- operation="delete"-->
</config>
</engine-id>
</snmp>
```

Command Syntax

```
snmp-server engineID ENGINE_ID_STR
```

Configure smux port enable

Use this attribute to enable smux-port.

Attribute Name: smux-port-enable

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <smux-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
      <config>
             </smux-port-enable><!-- operation="delete"-->
      </config>
   </smux-port>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server smux-port-enable (vrf (NAME|management)|)
```

Configure host name

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: community

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <host>
         <host-name>A.B.C.D</host-name>
         <config>
            <host-name>A.B.C.D</host-name>
            <host-vrf-name>NAME</host-vrf-name>
            <notification-type>traps</notification-type>
            <snmp-version>1</snmp-version>
            <community>WORD</community>
            <udp-port>1</udp-port>
         </config>
            <host-vrf-name>NAME</host-vrf-name>
      </host>
   </hosts>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (traps) version (1|2c) WORD (udp-port
  <1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure notification type

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-auth-type

Attribute Type: enum (noauth|auth|priv)

Attribute Name: snmpv3-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <host>
         <host-name>A.B.C.D</host-name>
         <config>
            <host-name>A.B.C.D</host-name>
            <host-vrf-name>NAME</host-vrf-name>
            <notification-type>traps</notification-type>
            <snmp-version>1</snmp-version>
            <snmpv3-auth-type>noauth</snmpv3-auth-type>
            <snmpv3-user>WORD</snmpv3-user>
            <udp-port>1</udp-port>
         </config>
            <host-vrf-name>NAME</host-vrf-name>
      </host>
   </hosts>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (traps) version (3) (noauth|auth|priv)
  WORD (udp-port <1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure snmp version

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: community

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <host>
         <host-name>A.B.C.D</host-name>
         <config>
            <host-name>A.B.C.D</host-name>
            <host-vrf-name>NAME</host-vrf-name>
            <notification-type>traps</notification-type>
            <snmp-version>1</snmp-version>
            <community>WORD</community>
            <udp-port>1</udp-port>
         </config>
            <host-vrf-name>NAME</host-vrf-name>
      </host>
   </hosts>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (informs) version (2c) WORD (udp-port
  <1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure snmpv3 auth type

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: notification-type

Attribute Type: enum (traps|informs)

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-auth-type

Attribute Type: enum (noauth|auth|priv)

Attribute Name: snmpv3-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <host>
         <host-name>A.B.C.D</host-name>
         <config>
            <host-name>A.B.C.D</host-name>
            <host-vrf-name>NAME</host-vrf-name>
            <notification-type>traps</notification-type>
            <snmp-version>1</snmp-version>
            <snmpv3-auth-type>noauth</snmpv3-auth-type>
            <snmpv3-user>WORD</snmpv3-user>
            <udp-port>1</udp-port>
         </config>
```

```
            <host-vrf-name>NAME</host-vrf-name>
        </host>
    </hosts>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) (informs) version (3)
  (noauth|auth|priv) WORD (udp-port <1-65535>|) (vrf (NAME|management)|) (host-vrf
  (NAME|management)|)
```

Configure community

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: community

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>NAME</vrf-name>
        </config>
        <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <host>
            <host-name>A.B.C.D</host-name>
            <config>
                <host-name>A.B.C.D</host-name>
                <host-vrf-name>NAME</host-vrf-name>
                <snmp-version>1</snmp-version>
                <community>WORD</community>
                <udp-port>1</udp-port>
            </config>
```

```
                <host-vrf-name>NAME</host-vrf-name>
            </host>
        </hosts>
    </server>
    </servers>
    </snmp>
```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) version (1|2c) WORD (udp-port <1-
  65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure snmpv3 user

Use this attribute to configure an SNMP trap host. An SNMP trap host is usually a network management station (NMS) or an SNMP manager.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-name

Attribute Type: string

Attribute Range: 1-63

Attribute Name: snmp-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-auth-type

Attribute Type: enum (noauth|auth|priv)

Attribute Name: snmpv3-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>NAME</vrf-name>
        </config>
        <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <host>
            <host-name>A.B.C.D</host-name>
            <config>
                <host-name>A.B.C.D</host-name>
                <host-vrf-name>NAME</host-vrf-name>
                <snmp-version>1</snmp-version>
                <snmpv3-auth-type>noauth</snmpv3-auth-type>
```

```
                <snmpv3-user>WORD</snmpv3-user>
                <udp-port>1</udp-port>
            </config>
                <host-vrf-name>NAME</host-vrf-name>
        </host>
    </hosts>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) version (3) (noauth|auth|priv) WORD
  (udp-port <1-65535>|) (vrf (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure host vrf name

SNMP host VRF name associated with this host.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: host-vrf-name

Attribute Type: string

Attribute Name: host-user

Attribute Type: string

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
    <server>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>NAME</vrf-name>
        </config>
        <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <host>
            <host-name>A.B.C.D</host-name>
            <config>
                <host-name>A.B.C.D</host-name>
                <host-vrf-name>NAME</host-vrf-name>
                <host-user>WORD</host-user> <!-- operation="delete"-->
                <udp-port>1</udp-port> <!-- operation="delete"-->
            </config>
                <host-vrf-name>NAME</host-vrf-name>
        </host>
    </hosts>
</server>
```

```
</servers>
</snmp>
```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) WORD (udp-port <1-65535>|) (vrf
  (NAME|management)|) (host-vrf (NAME|management)|)
```

Configure user name

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <authentication-type>md5</authentication-type>
            <encryption-type>1</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD auth (md5|sha) encrypt AUTH-PASSWORD (vrf (NAME|management)|)
```

Configure authentication type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <authentication-type>md5</authentication-type>
            <encryption-type>0</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD auth (md5|sha) AUTH-PASSWORD (vrf (NAME|management)|)
```

Configure user type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <user-type>network-operator</user-type>
            <authentication-type>md5</authentication-type>
            <encryption-type>1</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) encrypt
  AUTH-PASSWORD (vrf (NAME|management)|)
```

Configure encryption type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <user-type>network-operator</user-type>
            <authentication-type>md5</authentication-type>
            <encryption-type>0</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) AUTH-
  PASSWORD (vrf (NAME|management)|)
```

Configure authentication password

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <authentication-type>md5</authentication-type>
            <encryption-type>1</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
            <privilege-type>des</privilege-type>
            <privilege-password>PRIV-PASSWORD</privilege-password>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD auth (md5|sha) encrypt AUTH-PASSWORD priv (des|aes) PRIV-
  PASSWORD (vrf (NAME|management)|)
```

Configure privilege type

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <authentication-type>md5</authentication-type>
            <encryption-type>0</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
            <privilege-type>des</privilege-type>
            <privilege-password>PRIV-PASSWORD</privilege-password>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD auth (md5|sha) AUTH-PASSWORD priv (des|aes) PRIV-PASSWORD
  (vrf (NAME|management)|)
```

Configure privilege password

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <user-type>network-operator</user-type>
            <authentication-type>md5</authentication-type>
            <encryption-type>1</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
            <privilege-type>des</privilege-type>
            <privilege-password>PRIV-PASSWORD</privilege-password>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) encrypt
  AUTH-PASSWORD priv (des|aes) PRIV-PASSWORD (vrf (NAME|management)|)
```

Configure vrf name

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Attribute Name: user-type

Attribute Type: union

Attribute Name: authentication-type

Attribute Type: enum (md5|sha)

Attribute Name: encryption-type

Attribute Type: enum (plain|encrypt)

Attribute Name: authentication-password

Attribute Type: string

Attribute Name: privilege-type

Attribute Type: enum (des|aes)

Attribute Name: privilege-password

Attribute Type: string

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user> <!-- operation="delete"-->
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
            <user-type>network-operator</user-type>
            <authentication-type>md5</authentication-type>
            <encryption-type>0</encryption-type>
            <authentication-password>AUTH-PASSWORD</authentication-password>
            <privilege-type>des</privilege-type>
            <privilege-password>PRIV-PASSWORD</privilege-password>
```

```
            </config>
         </user>
      </users>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) AUTH-
  PASSWORD priv (des|aes) PRIV-PASSWORD (vrf (NAME|management)|)
```

Configure user user-name

Use this attribute to create an SNMP server user.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-name

Attribute Type: string

Attribute Range: 5-32

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
   <server>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
      <user>
         <user-name>WORD</user-name>
         <config>
            <user-name>WORD</user-name>
         </config>
      </user>
   </users>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server user WORD (vrf (NAME|management)|)
```

Configure user user-type

Use this attribute to create an SNMP server user of specified type.

This command is supported when following feature are enabled SNMP-AGENT feature,snmp version v3

Attribute Name: user-type

Attribute Type: union

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
         <user>
            <user-name>WORD</user-name>
            <config>
               <user-name>WORD</user-name>
            </config>
               <user-type>network-operator</user-type> <!-- operation="delete"-->
         </user>
      </users>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server user WORD (network-operator|network-admin|WORD) (vrf
      (NAME|management)|)
```

Configure context name

Use this attribute to create an SNMP server context

Attribute Name: context-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <contexts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <context>
            <context-name>WORD</context-name>
            <config>
               <context-name>WORD</context-name>
            </config>
```

```
          </context>
       </contexts>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server context WORD (vrf (NAME|management)|)
```

Configure acl name

Use this attribute to create an SNMP community string and user-acl.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <community>
            <community-name>WORD</community-name>
            <config>
               <community-name>WORD</community-name>
            </config>
               <acl-name>WORD</acl-name> <!-- operation="delete"-->
         </community>
      </communities>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server community WORD use-acl WORD (vrf (NAME|management)|)
```

Configure community name

Use this attribute to create an SNMP community string and access privileges.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: community-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <community>
            <community-name>WORD</community-name>
            <config>
               <community-name>WORD</community-name>
            </config>
         </community>
      </communities>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server community WORD (vrf (NAME|management)|)
```

Configure snmp group

Use this attribute to create an SNMP community string with group.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: snmp-group

Attribute Type: enum (network-operator|network-admin)

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <community>
            <community-name>WORD</community-name>
            <config>
               <community-name>WORD</community-name>
            </config>
               <snmp-group>network-operator</snmp-group> <!-- operation="delete"-->
```

```
          </community>
       </communities>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server community WORD group (network-operator|network-admin) (vrf
      (NAME|management)|)
```

Configure access privileges

Use this attribute to create an SNMP community string and access privileges.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: access-privileges

Attribute Type: enum (ro)

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <community>
            <community-name>WORD</community-name>
            <config>
               <community-name>WORD</community-name>
            </config>
               <access-privileges>ro</access-privileges> <!-- operation="delete"-->
         </community>
      </communities>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server community WORD (ro) (vrf (NAME|management)|)
```

Configure access

Use this attribute to set access privileges to this community view.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: access

Attribute Type: enum (ro)

Attribute Name: community-view-name

Attribute Type: string

Attribute Name: version

Attribute Type: enum (v1|v2c)

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <community>
            <community-name>WORD</community-name>
            <config>
               <community-name>WORD</community-name>
               <community-view-name>VIEW-NAME</community-view-name> <!--
operation="delete"-->
               <version>v1</version> <!-- operation="delete"-->
            </config>
               <access>ro</access> <!-- operation="delete"-->
         </community>
      </communities>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server community WORD view VIEW-NAME version (v1|v2c) (ro) (vrf
      (NAME|management)|)
```

Configure community context

Use this attribute to create an SNMP community string and access privileges.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: community-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: community-context

Attribute Type: string

Attribute Range: 1-32

Attribute Name: community-user

Attribute Type: string

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <communities xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <community>
            <community-name>WORD</community-name>
            <config>
               <community-name>WORD</community-name>
            </config>
            <community-context-mapping>
            <config>
               <community-context>WORD</community-context>
                  <community-user>WORD</community-user>
               </config>
            </community-context-mapping>
         </community>
      </communities>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server community-map WORD context WORD user WORD (vrf (NAME|management)|)
```

Configure group name

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
```

```
            <vrf-name>NAME</vrf-name>
         </config>
         <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <server-group>
            <group-name>WORD</group-name>
            <config>
               <group-name>WORD</group-name>
               <group-version>1</group-version>
            </config>
         </server-group>
      </server-groups>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
    snmp-server group WORD version (1|2c) (vrf (NAME|management)|)
```

Configure group version

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-group-auth-type

Attribute Type: enum (auth|priv|noauth)

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <server-group>
            <group-name>WORD</group-name>
            <config>
               <group-name>WORD</group-name>
               <group-version>1</group-version>
               <snmpv3-group-auth-type>auth</snmpv3-group-auth-type>
```

```
            </config>
         </server-group>
      </server-groups>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
snmp-server group WORD version (3) (auth|priv|noauth) (vrf (NAME|management)|)
```

Configure context

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Attribute Name: context

Attribute Type: union

Attribute Range: 1-32

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <server-group>
            <group-name>WORD</group-name>
            <config>
               <group-name>WORD</group-name>
               <group-version>1</group-version>
               <context>1</context>
            </config>
         </server-group>
      </server-groups>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
snmp-server group WORD version (1|2c) context (all|WORD) (vrf (NAME|management)|)
```

Configure snmpv3 group auth type

Use this attribute to create an SNMP group string.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-version

Attribute Type: enum (1|2c|3)

Attribute Name: snmpv3-group-auth-type

Attribute Type: enum (auth|priv|noauth)

Attribute Name: context

Attribute Type: enum (all)

Attribute Range: 1-32

Netconf edit-config payload

```
   <snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
   <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server">
      <server>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>NAME</vrf-name>
         </config>
         <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-
extended">
         <server-group>
            <group-name>WORD</group-name>
            <config>
               <group-name>WORD</group-name>
               <group-version>1</group-version>
               <snmpv3-group-auth-type>auth</snmpv3-group-auth-type>
               <context>1</context>
            </config>
         </server-group>
      </server-groups>
   </server>
   </servers>
   </snmp>
```

Command Syntax

```
snmp-server group WORD version (3) (auth|priv|noauth) context <1-32> (all) (vrf
  (NAME|management)|)
```

debug snmp-server

Netconf RPC payload

```
      <snmp-server-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended"/>
```

Command Syntax

```
debug snmp-server
```

no debug snmp-server

Netconf RPC payload

```
      <snmp-server-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended"/>
```

Command Syntax

```
no debug snmp-server
```

IPI-LDP

Configure multicast hello disable

This attribute enable multicast hello exchange on all interfaces enabled for LDP. This is used for autodiscovery of LDP peers on directly connected networks. This option is enabled by default.

Attribute Name: multicast-hello-disable

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </multicast-hello-disable><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
no multicast-hellos
```

Configure ftn del timer

Use this attribute to configure a timer to delay FTN deletion

Attribute Name: ftn-del-timer

Attribute Type: uint8

Default Value: 50

Attribute Range: 15-120

Attribute Name: delay-ftn-delete

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </delay-ftn-delete><!-- operation="delete"-->
   <ftn-del-timer>15</ftn-del-timer> <!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
delay-ftn-delete (<15-120>|)
```

Configure ldp instance

This command is used to enter the LDP specific command-line mode in which global attributes for the LDP process can be set. Without this command, the LSR does not perform any LDP operations, such as sending hello packets.

Attribute Name: ldp-instance

Attribute Type: enum (ldp)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   <ldp-instance>ldp</ldp-instance>
</config>
</global>
</ldp>
```

Command Syntax

```
router (ldp)
```

Configure router identifier

This attribute sets the router-id to the supplied IP address; the router uses this address to generate the LDP-ID

Attribute Name: router-identifier

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
```

```
      <router-identifier>A.B.C.D</router-identifier> <!-- operation="delete"-->
   </config>
   </global>
   </ldp>
```

Command Syntax

```
router-id A.B.C.D
```

Configure pseudowire status tlv

This attribute enables the use of the PW Status TLV to signal the pseudowire status

Attribute Name: pseudowire-status-tlv

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </pseudowire-status-tlv><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
pw-status-tlv
```

Configure rlfa ilm optimization

This attribute enables the rlfa ilm optimization

Attribute Name: rlfa-ilm-optimization

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </rlfa-ilm-optimization><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
rlfa-ilm-optimization
```

Configure entropy label capability enable

This attribute enables ELC for the router. An ELC TLV will be inserted in the label mapping message if the router is capable of processing Entropy Label.

Attribute Name: entropy-label-capability-enable

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </entropy-label-capability-enable><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
entropy-label-capability
```

Configure advertise label for default route

Advertise the label for default route.

Attribute Name: advertise-label-for-default-route

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </advertise-label-for-default-route><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
advertise-label-for-default-route
```

Configure import bgp routes

This attribute is used to import BGP routes into LDP. BGP routes are not imported into LDP by default. Use the no parameter to flush out all BGP routes currently being used by LDP, and to reject any further BGP specific routing updates from ZebOS-XP.

Attribute Name: import-bgp-routes

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </import-bgp-routes><!-- operation="delete"-->
</config>
</global>
```

```
</ldp>
```

Command Syntax

```
import-bgp-routes
```

Configure ldp optimization

This command helps optimize the resetting of an LDP session by enabling the two scalability features for LDP. It Resets the session keepalive timer on receipt of a hello message and Resets the hold timer on receipt of any LDP control message.

Attribute Name: ldp-optimization

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </ldp-optimization><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
ldp-optimization
```

Configure explicit null

This attribute is used to configure the router to send explicit-null labels for directly connected FECs instead of implicit-null labels. Implicit-nulls are the default labels.

Attribute Name: explicit-null

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </explicit-null><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
explicit-null
```

Configure global merge

This attribute is used to override the default merge capability setting of all the interfaces for the current LSR. The merge capability aggregates multiple incoming flows with the same destination address into a single outgoing flow.

Attribute Name: global-merge

Attribute Type: enum (merge-capable|non-merge-capable)

Default Value: merge-capable

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   <global-merge>merge-capable</global-merge> <!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
global-merge-capability (merge-capable|non-merge-capable)
```

Configure propagate release

This attribute is used to propagate the release of labels to downstream routers

Attribute Name: propagate-release

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </propagate-release><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
propagate-release
```

Configure fast reroute

This attribute is used to enable the use by LDP of the LFA next-hop

Attribute Name: fast-reroute

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </fast-reroute><!-- operation="delete"-->
</config>
</global>
```

```
</ldp>
```

Command Syntax

```
fast-reroute
```

Configure prefer tunnel in tunnel

Use this attribute to specify TE-tunnel over LDP tunnel for tunneling

Attribute Name: prefer-tunnel-in-tunnel

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </prefer-tunnel-in-tunnel><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
prefer-tunnel-in-tunnel rsvp
```

Configure ignore mac withdraw bad pdu length

This attribute is used to ignore the bad pdu length error and send a non-fatal notification (non-RFC compliance)

Attribute Name: ignore-mac-withdraw-bad-pdu-length

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   </ignore-mac-withdraw-bad-pdu-length><!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
ignore-mac-withdraw-bad-pdu-length
```

Configure rlfa tunnels

Use this attribute to specify maximum rlfa tunnels

Attribute Name: rlfa-tunnels

Attribute Type: uint16

Default Value: 100

Attribute Range: 1-500

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<config>
   <rlfa-tunnels>1</rlfa-tunnels> <!-- operation="delete"-->
</config>
</global>
</ldp>
```

Command Syntax

```
max-rlfa-tunnels <1-500>
```

Configure auto targeted session

This attribute is used to dynamically create TLDP session for LDP RLFA.

This command is supported when following feature are enabled LDP FRR feature

Attribute Name: auto-targeted-session

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<auto-target-session>
<config>
   </auto-targeted-session><!-- operation="delete"-->
</config>
</auto-target-session>
</global>
</ldp>
```

Command Syntax

```
auto-targeted-session
```

Configure control mode

Use this attribute to override the default merge capability setting of all the interfaces for the current LSR.The merge capability aggregates multiple incoming flows with the same destination address into a single outgoing flow. This reduces the label-space shortage by sharing labels for different flows with the same destination, or the same FEC (Forwarding Equivalence Class).an LSR replies to a request packet from an LSR higher in the chain only after it receives a label from an LSR lower in the chain. Independent processing setthe mode to instant replies.In independent control mode, each LSR might advertise label mappings to its neighbors at any time. In independent downstream-on-demand mode, an LSR might answer requests for label mappings immediately, without waiting for a label mapping from the next hop. In independent downstream unsolicited mode, an LSR might advertise a label mapping for an Forwarding Equivalence Class (FEC) to its neighbors when ever it is prepared to label-switch that FEC.In independent mode, an upstream label can be advertised before a downstream label is received.In ordered control mode, an LSR may initiate the transmission of label mapping only for an FEC for which it has a label mapping for the FEC next hop, or

for which the LSR is the egress. For each FEC for which the LSR is not the egress and no mapping exists, the LSR must wait until a label from a downstream LSR is received. An LSR may be an egress for some FECs and a non-egress for others. Changes in control mode only affect labels that were sent or received after the change was made.

Attribute Name: control-mode

Attribute Type: enum (independent|ordered)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<label-management>
<config>
   <control-mode>independent</control-mode> <!-- operation="delete"-->
</config>
</label-management>
</global>
</ldp>
```

Command Syntax

```
control-mode (independent|ordered)
```

Configure retention mode

This attribute is used to set the retention mode to be used for all labels exchanged. When an LSR receives a label binding for a particular FEC (Forwarding Equivalence Class) from another LSR that is not its next hop for that FEC, it might keep track of such bindings or discard them. Use the liberal parameter to retain all labels binding to FEC received from label distribution peers, even if the LSR is not the current next-hop. Use the conservative parameter to maintain only the label bindings for valid next-hops in a LSP.

Attribute Name: retention-mode

Attribute Type: enum (liberal|conservative)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<label-management>
<config>
   <retention-mode>liberal</retention-mode> <!-- operation="delete"-->
</config>
</label-management>
</global>
</ldp>
```

Command Syntax

```
label-retention-mode (liberal|conservative)
```

Configure advertisement mode

This attribute is used to set the label advertisement mode for all the interfaces for the current LSR. Specifying downstream-on-demand and downstream-unsolicited mode affects which LSR initiates mapping requests and mapping

advertisements. This command is a global command used to set the label advertisement mode for all interfaces for the current LSR.

Attribute Name: advertisement-mode

Attribute Type: enum (downstream-unsolicited|downstream-on-demand)

Default Value: downstream-unsolicited

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <global>
   <label-management>
   <config>
      <advertisement-mode>downstream-unsolicited</advertisement-mode> <!--
operation="delete"-->
   </config>
   </label-management>
   </global>
   </ldp>
```

Command Syntax

```
    advertisement-mode (downstream-unsolicited|downstream-on-demand)
```

Configure hello interval

Use this attribute set the hello interval to send the hello messages to peers

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-21845

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <global>
   <timers>
   <config>
      <hello-interval>1</hello-interval> <!-- operation="delete"-->
   </config>
   </timers>
   </global>
   </ldp>
```

Command Syntax

```
    hello-interval <1-21845>
```

Configure hello holdtime

Use this attribute set the hello hold time as the time out value that the router waits before rejecting an adjacency

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 15

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<timers>
<config>
   <hello-holdtime>3</hello-holdtime> <!-- operation="delete"-->
</config>
</timers>
</global>
</ldp>
```

Command Syntax

```
hold-time <3-65535>
```

Configure keepalive interval

Use this attribute to set the global value for the interval after which keep-alive packets are sent out

Attribute Name: keepalive-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<timers>
<config>
   <keepalive-interval>1</keepalive-interval> <!-- operation="delete"-->
</config>
</timers>
</global>
</ldp>
```

Command Syntax

```
keepalive-interval <1-21845>
```

Configure keepalive timeout

Use this attribute to set the time period for which an LSR must wait for successive keep-alive messages from LDP peers

Attribute Name: keepalive-timeout

Attribute Type: uint16

Default Value: 30

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<timers>
<config>
   <keepalive-timeout>3</keepalive-timeout> <!-- operation="delete"-->
</config>
</timers>
</global>
</ldp>
```

Command Syntax

```
keepalive-timeout <3-65535>
```

Configure request retry timeout

Use this attribute to set the interval between retries. Before this time is over, a request is re-sent to a peer. This command changes the interval between request messages that are resent to a peer to account for routing changes.

Attribute Name: request-retry-timeout

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<label-request-policy>
<config>
   <request-retry-timeout>1</request-retry-timeout> <!-- operation="delete"-->
</config>
</label-request-policy>
</global>
</ldp>
```

Command Syntax

```
request-retry-timeout <1-65535>
```

Configure request retry

Use this attribute to enable the retry of requests once a request for a label has been rejected for a valid reason. This command enables the LSR to send a maximum of five label requests if a label request is rejected by an LDP peer.

Attribute Name: request-retry

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<label-request-policy>
<config>
   </request-retry><!-- operation="delete"-->
</config>
</label-request-policy>
</global>
</ldp>
```

Command Syntax

```
request-retry
```

Configure label request policy ipv4

Use this attribute to send LDP Label Request Message for certain IPv4 FEC prefixes.

Attribute Name: label-request-policy-ipv4

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<label-request-policy>
<config>
   <label-request-policy-ipv4>NAME</label-request-policy-ipv4> <!--
operation="delete"-->
</config>
</label-request-policy>
</global>
</ldp>
```

Command Syntax

```
request-labels-for prefix-list-ipv4 NAME
```

Configure loop detection enable

Use this attribute to enable loop detection on the current LSR. This command detects looping LSPs, and prevent Label Request messages from looping because of non-merge capable LSRs. This loop detection mechanism is useful for networks of non time-to-live (non TTL) decrementing devices that can not allocate resources among traffic flows.

Attribute Name: loop-detection-enable

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<loop-detection-policy>
<config>
```

```
    </loop-detection-enable>
</config>
</loop-detection-policy>
</global>
</ldp>
```

Command Syntax

```
loop-detection
```

Configure path vector limit

Use this attribute to set the loop detection vec (vector) count, which determines the maximum supported path vectors. This command sets the maximum supported path vectors for loop detection, which specifies the permitted path vector length. An LSR that detects a path vector has reached the maximum length behaves as if the containing message has traversed a loop. This command ensures that a loop is detected while establishing a label switched path before any data is passed over that LSP.

Attribute Name: path-vector-limit

Attribute Type: uint32

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<loop-detection-policy>
<config>
    <path-vector-limit>1</path-vector-limit> <!-- operation="delete"-->
</config>
</loop-detection-policy>
</global>
</ldp>
```

Command Syntax

```
loop-detection-path-vec-count <1-255>
```

Configure hop count limit

Use this attribute to set the loop detection hop count, which determines the maximum hop-count value. This command sets the maximum hop count value, which specifies the permitted maximum permitted hop-count. An LSR that detects a maximum hop count behaves as if the containing message has traversed a loop. The use of this command ensures that a loop is detected while establishing a label switched path before any data is passed via LSP

Attribute Name: hop-count-limit

Attribute Type: uint32

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<loop-detection-policy>
<config>
   <hop-count-limit>1</hop-count-limit> <!-- operation="delete"-->
</config>
</loop-detection-policy>
</global>
</ldp>
```

Command Syntax

```
loop-detection-hop-count <1-255>
```

Configure session protection enable

This attribute is used to activate adjacency session protection.

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: session-protection-enable

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<global>
<session-protection>
<config>
   </session-protection-enable>
</config>
</session-protection>
</global>
</ldp>
```

Command Syntax

```
session-protection
```

Configure duration

Set adjacency session protection duration. Protection is infinite, it is not configured

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: duration

Attribute Type: union

Attribute Name: session-protection-enable

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
```

```
   <global>
   <session-protection>
   <config>
      </session-protection-enable><!-- operation="delete"-->
      <duration>infinite</duration> <!-- operation="delete"-->
   </config>
   </session-protection>
   </global>
   </ldp>
```

Command Syntax

```
    session-protection duration (infinite|<5-86400>)
```

Configure session protection prefix list name

This attribute is used to set adjacency prefixes for session protection.

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: session-protection-prefix-list-name

Attribute Type: union

Attribute Name: session-protection-enable

Attribute Type: empty

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <global>
   <session-protection>
   <config>
      </session-protection-enable><!-- operation="delete"-->
      <session-protection-prefix-list-name>none</session-protection-prefix-list-name>
<!-- operation="delete"-->
   </config>
   </session-protection>
   </global>
   </ldp>
```

Command Syntax

```
    session-protection for (none|WORD)
```

Configure session-protection duration

Set adjacency session protection duration. Protection is infinite, it is not configured

This command is supported when following feature are enabled LDP Session Protection feature

Attribute Name: duration

Attribute Type: enum (infinite)

Attribute Name: session-protection-enable

Attribute Type: empty

Attribute Name: session-protection-prefix-list-name

Attribute Type: enum (none)

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <global>
   <session-protection>
   <config>
      </session-protection-enable><!-- operation="delete"-->
      <session-protection-prefix-list-name>none</session-protection-prefix-list-name>
<!-- operation="delete"-->
      <duration>infinite</duration> <!-- operation="delete"-->
   </config>
   </session-protection>
   </global>
   </ldp>
```

Command Syntax

```
    session-protection for (none) duration (infinite)
```

Configure ldp

Use this attribute to enable the debugging of all LDP events.

Attribute Name: ldp

Attribute Type: bits (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <debug>
   <config>
      <ldp>events</ldp> <!-- operation="delete"-->
   </config>
   </debug>
   </ldp>
```

Command Syntax

```
    debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc
      dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet
      initialization|packet keepalive|packet address|packet label|packet|all)
```

Configure dev

Use this attribute to enable dev related debugging for LDP

Attribute Name: dev

Attribute Type: bits (dev)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<debug>
<config>
   <dev>dev</dev> <!-- operation="delete"-->
</config>
</debug>
</ldp>
```

Command Syntax

```
debug ldp (dev)
```

Configure enable

Use this attribute with the enable option to enable Graceful Restart capability on a router. This is a global command. LDP decides whether or not to encode FT Session TLV in its initialization message for each session depending on this capability, but the restart capability of each session also depends on support for graceful restart at the peer router

This command is supported when following feature are enabled restart feature

Attribute Name: enable

Attribute Type: enum (full|helper-only)

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<graceful-restart>
<config>
   <enable>full</enable>
</config>
</graceful-restart>
</ldp>
```

Command Syntax

```
graceful-restart (full|helper-only)
```

Configure neighbor liveness time

Use this attribute to set the Neighbor-Liveness timer. The amount of time the LSR keeps its stale label-FEC (Forwarding Equivalence Class) bindings is set to the lesser of the Fault Tolerant (FT) Reconnect timeout and Neighbor-Liveness timer. This command sets the Neighbor-Liveness timer

This command is supported when following feature are enabled restart feature

Attribute Name: neighbor-liveness-time

Attribute Type: uint16

Default Value: 120

Attribute Range: 5-300

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
```

```
<graceful-restart>
<config>
   <neighbor-liveness-time>5</neighbor-liveness-time> <!-- operation="delete"-->
</config>
</graceful-restart>
</ldp>
```

Command Syntax

```
 graceful-restart timers neighbor-liveness <5-300>
```

Configure max recovery time

Use this attribute to set the maximum recovery time.If the LSR determines that the neighbor was able to preserve its MPLS forwarding state, the LSR should keep the stale label-FEC (Forwarding Equivalence Class) bindings for as long as the lesser of: the recovery time advertised by the neighbor and a local maximum recovery time. This command sets the maximum recovery time

This command is supported when following feature are enabled restart feature

Attribute Name: max-recovery-time

Attribute Type: uint16

Default Value: 120

Attribute Range: 15-600

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<graceful-restart>
<config>
   <max-recovery-time>15</max-recovery-time> <!-- operation="delete"-->
</config>
</graceful-restart>
</ldp>
```

Command Syntax

```
 graceful-restart timers max-recovery <15-600>
```

Configure inter area acl name

Use this attribute to enable creation of inter-area LSPs.

This command is supported when following feature are enabled INTER AREA feature

Attribute Name: inter-area-acl-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<inter-area>
   <inter-area-enable>WORD</inter-area-enable>
   <config>
      <inter-area-enable>WORD</inter-area-enable>
```

```
          <inter-area-acl-name>WORD</inter-area-acl-name>
       </config>
       <inter-area-acl-name>WORD</inter-area-acl-name>
   </inter-area>
   </ldp>
```

Command Syntax

```
    inter-area-lsp (PREFIX_ACL|) (config-only|)
```

Configure transport address ipv4

Use this attribute to configure the IPv4 transport address for a label space.The transport address is the address used for the TCP session over which LDP is running. Use this attribute to manually configure the transport address. Transport addresses may either be bound to a loopback interface, or to a physical interface that is bound to the label space in question. A transport address can also be manually configured using the CLI with the loopback address as the transport address.

Attribute Name: transport-address-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <transport-addresses>
   <transport-address>
       <label-space-identifier>0</label-space-identifier>
       <config>
           <label-space-identifier>0</label-space-identifier>
       </config>
       <transport-address-ipv4>A.B.C.D</transport-address-ipv4> <!--
operation="delete"-->
   </transport-address>
   </transport-addresses>
   </ldp>
```

Command Syntax

```
    transport-address ipv4 A.B.C.D ((0)|)
```

Configure peer address

Use this attribute to configure neighbors of LDP for authentication.

This command is supported when following feature are enabled TCP MD5SIG encrypt password enabled

Attribute Name: peer-address

Attribute Type: union

Attribute Name: password-type

Attribute Type: enum (plain-text|encrypt)

Attribute Name: password

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<peer-authentication>
<peer-authentication-lists>
<peer-authentication-list> <!-- operation="delete"-->
   <peer-address>all</peer-address>
   <config>
      <peer-address>all</peer-address>
      <password-type>plain-text</password-type>
      <password>WORD</password>
   </config>
</peer-authentication-list>
</peer-authentication-lists>
</peer-authentication>
</ldp>
```

Command Syntax

```
neighbor (all|auto-targeted|A.B.C.D) auth md5 password (plain-text|encrypt) WORD
```

Configure authentication-exclusions peer-address

Use this attribute to exclude neighbors of LDP from authentication.

Attribute Name: peer-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<peer-authentication>
<authentication-exclusions>
<config>
   <peer-address>A.B.C.D</peer-address> <!-- operation="delete"-->
</config>
</authentication-exclusions>
</peer-authentication>
</ldp>
```

Command Syntax

```
neighbor A.B.C.D auth md5 password exclude
```

Configure group name

LDP Session group name.

Attribute Name: group-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<peer-authentication>
```

```
<authentication-groups>
<authentication-group> <!-- operation="delete"-->
   <group-name>NAME</group-name>
   <config>
      <group-name>WORD</group-name>
   </config>
</authentication-group>
</authentication-groups>
</peer-authentication>
</ldp>
```

Command Syntax

```
session-group name NAME
```

Configure prefix list

Peer authentication group prefix list.

Attribute Name: prefix-list

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<peer-authentication>
<authentication-groups>
<authentication-group>
   <group-name>NAME</group-name>
   <config>
      <group-name>WORD</group-name>
   </config>
   <prefix-list>NAME</prefix-list> <!-- operation="delete"-->
</authentication-group>
</authentication-groups>
</peer-authentication>
</ldp>
```

Command Syntax

```
neighbor prefix-list NAME
```

Configure auth

Use this attribute to configure session-group authentication.

Attribute Name: auth

Attribute Type: enum (auth)

Attribute Name: password-type

Attribute Type: enum (plain-text|encrypt)

Attribute Name: password

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<peer-authentication>
<authentication-groups>
<authentication-group>
   <group-name>NAME</group-name>
   <config>
      <group-name>WORD</group-name>
   </config>
<authentication-group-passwords>
<authentication-group-password> <!-- operation="delete"-->
   <auth>auth</auth>
   <config>
      <auth>auth</auth>
      <password-type>plain-text</password-type>
      <password>WORD</password>
   </config>
</authentication-group-password>
</authentication-group-passwords>
</authentication-group>
</authentication-groups>
</peer-authentication>
</ldp>
```

Command Syntax

```
(auth) md5 password (plain-text|encrypt) WORD
```

Configure prefix access control list name

Use this attribute to prevent the distribution of any locally assigned labels

Attribute Name: prefix-access-control-list-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<label-mapping-access-lists>
<label-mapping-access-list>
   <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
   <config>
      <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
      <peer-access-control-list-name>WORD</peer-access-control-list-name>
   </config>
   <peer-access-control-list-name>WORD</peer-access-control-list-name>
</label-mapping-access-list>
</label-mapping-access-lists>
</ldp>
```

Command Syntax

```
advertise-labels for any to none
```

Configure peer access control list name

Use this attribute to prevent the distribution of any locally assigned labels

Attribute Name: prefix-access-control-list-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<label-mapping-access-lists>
<label-mapping-access-list>
   <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
   <config>
      <prefix-access-control-list-name>WORD</prefix-access-control-list-name>
      <peer-access-control-list-name>WORD</peer-access-control-list-name>
   </config>
   <peer-access-control-list-name>WORD</peer-access-control-list-name>
</label-mapping-access-list>
</label-mapping-access-lists>
</ldp>
```

Command Syntax

```
advertise-labels for PREFIX to (any|PEER)
```

Configure tcp mss range

Use this attribute to specify LDP neighbors

Attribute Name: peer-address

Attribute Type: union

Attribute Name: tcp-mss-range

Attribute Type: uint32

Attribute Range: 560-1440

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<tcp-mss-lists>
<tcp-mss-list> <!-- operation="delete"-->
   <peer-address>all</peer-address>
   <config>
      <peer-address>all</peer-address>
      <tcp-mss-range>560</tcp-mss-range>
   </config>
</tcp-mss-list>
</tcp-mss-lists>
```

```
</ldp>
```

Command Syntax

```
neighbor (all|auto-targeted|A.B.C.D) tcp-mss <560-1440>
```

Configure prefix control list name

Use this attribute to prevent processing of received labels

Attribute Name: prefix-control-list-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<received-label-control-lists>
<received-label-control-list>
   <prefix-control-list-name>WORD</prefix-control-list-name>
   <config>
      <prefix-control-list-name>WORD</prefix-control-list-name>
      <peer-control-list-name>WORD</peer-control-list-name>
   </config>
   <peer-control-list-name>WORD</peer-control-list-name>
</received-label-control-list>
</received-label-control-lists>
</ldp>
```

Command Syntax

```
install-labels for any from none
```

Configure peer control list name

Use this attribute to prevent processing of received labels

Attribute Name: prefix-control-list-name

Attribute Type: string

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<received-label-control-lists>
<received-label-control-list>
   <prefix-control-list-name>WORD</prefix-control-list-name>
   <config>
      <prefix-control-list-name>WORD</prefix-control-list-name>
      <peer-control-list-name>WORD</peer-control-list-name>
   </config>
   <peer-control-list-name>WORD</peer-control-list-name>
</received-label-control-list>
</received-label-control-lists>
</ldp>
```

Command Syntax

```
install-labels for PREFIX from (any|PEER)
```

clear ldp statistics

Netconf RPC payload

```
<clear-ldp-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp statistics
```

clear ldp statistics advertise-labels

Netconf RPC payload

```
<clear-ldp-statistics-advertise-labels xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp statistics advertise-labels
```

clear ldp statistics advertise-labels for PREFIX

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
<clear-ldp-statistics-advertise-labels-prefix xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-ldp">
<prefix>PREFIX</prefix>
</clear-ldp-statistics-advertise-labels-prefix>
```

Command Syntax

```
clear ldp statistics advertise-labels for PREFIX
```

clear ldp statistics advertise-labels for PREFIX to PEER

Attribute Name: prefix

Attribute Type: string

Attribute Name: peer

Attribute Type: string

Netconf RPC payload

```
<clear-ldp-statistics-advertise-labels-prefix-peer xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-ldp">
<prefix>PREFIX</prefix>
<peer>PEER</peer>
```

```
</clear-ldp-statistics-advertise-labels-prefix-peer>
```

Command Syntax

```
clear ldp statistics advertise-labels for PREFIX to PEER
```

clear ldp session *

Netconf RPC payload

```
<clear-ldp-session-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp session *
```

clear ldp session A.B.C.D

Attribute Name: addr

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<clear-ldp-session-ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<addr>A.B.C.D</addr>
</clear-ldp-session-ipv4>
```

Command Syntax

```
clear ldp session A.B.C.D
```

clear ldp adjacency *

Netconf RPC payload

```
<clear-ldp-adjacency-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
clear ldp adjacency *
```

clear ldp adjacency A.B.C.D

Attribute Name: addr

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<clear-ldp-adjacency-ipv4 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<addr>A.B.C.D</addr>
</clear-ldp-adjacency-ipv4>
```

Command Syntax

```
clear ldp adjacency A.B.C.D
```

snmp restart ldp

Netconf RPC payload

```
<snmp-restart-ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
snmp restart ldp
```

debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Netconf RPC payload

```
<ldp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<terminal-debug-options>events</terminal-debug-options>
</ldp-terminal-debug-on>
```

Command Syntax

```
debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc
  dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet
  initialization|packet keepalive|packet address|packet label|packet|all)
```

no debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet hello|packet initialization|packet keepalive|packet address|packet label|packet|all)

Netconf RPC payload

```
<ldp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<terminal-debug-options>events</terminal-debug-options>
</ldp-terminal-debug-off>
```

Command Syntax

```
no debug ldp (events|fsm|hexdump|dsm|usm|tsm|qos|nsm|advertise-labels|cspf|vc
  usm|vc dsm|graceful-restart|rib|inter-area|packet notification|packet
```

```
hello|packet initialization|packet keepalive|packet address|packet
label|packet|all)
```

restart ldp graceful

Netconf RPC payload

```
<restart-ldp-graceful xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp"/>
```

Command Syntax

```
restart ldp graceful
```

IPI-LDP-INTERFACE

Configure enable ldp ipv4

Use this attribute to enable LDP IPv4, on a specified interface. This command enables the transmission of Hello packets through the current interface, so that LDP adjacencies and LDP sessions can be created.

Attribute Name: enable-ldp-ipv4

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-ldp-ipv4><!-- operation="delete"-->
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
enable-ldp ipv4
```

Configure name

Use this attribute to enable LDP IPv4, on a specified interface. This command enables the transmission of Hello packets through the current interface, so that LDP adjacencies and LDP sessions can be created.

Attribute Name: enable-ldp-ipv4

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
```

```
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-ldp-ipv4><!-- operation="delete"-->
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
 enable-ldp ipv4 no-igp-sync
```

Configure multicast hello disable

Use this attribute to enable multicast hello exchange on specified interfaces enabled for LDP.

Attribute Name: multicast-hello-disable

Attribute Type: uint8

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </multicast-hello-disable><!-- operation="delete"-->
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
 no ldp multicast-hellos
```

Configure maximum pdu length

Use this attribute to specify max pdu length

Attribute Name: maximum-pdu-length

Attribute Type: uint32

Default Value: 4096

Attribute Range: 256-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
```

```
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <maximum-pdu-length>256</maximum-pdu-length> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </ldp>
```

Command Syntax

```
    ldp max-pdu-length <256-65535>
```

Configure ldp igp sync delay interval

Use this attribute to configure a synchronization delay, that is, a delay for notifications of LDP convergence to the IGP protocol used, which can be either IS-IS or OSPF.

Attribute Name: ldp-igp-sync-delay-interval

Attribute Type: uint32

Attribute Range: 5-60

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
         <ldp-igp-sync-delay-interval>5</ldp-igp-sync-delay-interval> <!--
operation="delete"-->
   </interface>
   </interfaces>
   </ldp>
```

Command Syntax

```
    mpls ldp-igp sync-delay <5-60>
```

Configure hello interval

Use this attribute set the hello interval to send the hello messages to peers

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <hello-timers>
   <config>
          <hello-interval>1</hello-interval> <!-- operation="delete"-->
   </config>
</hello-timers>
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
ldp hello-interval <1-21845>
```

Configure hello holdtime

Use this attribute set the hello hold time as the time out value that the router waits before rejecting an adjacency

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 15

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <hello-timers>
   <config>
          <hello-holdtime>3</hello-holdtime> <!-- operation="delete"-->
   </config>
</hello-timers>
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
ldp hold-time <3-65535>
```

Configure keepalive interval

Use this attribute to set the global value for the interval after which keep-alive packets are sent out

Attribute Name: keepalive-interval

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <session-timers>
   <config>
          <keepalive-interval>1</keepalive-interval> <!-- operation="delete"-->
   </config>
</session-timers>
</interface>
</interfaces>
</ldp>
```

Command Syntax

```
 ldp keepalive-interval <1-21845>
```

Configure keepalive timeout

Use this attribute to set the time period for which an LSR must wait for successive keep-alive messages from LDP peers

Attribute Name: keepalive-timeout

Attribute Type: uint16

Default Value: 30

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <session-timers>
   <config>
```

```
            <keepalive-timeout>3</keepalive-timeout> <!-- operation="delete"-->
       </config>
   </session-timers>
   </interface>
   </interfaces>
   </ldp>
```

Command Syntax

```
ldp keepalive-timeout <3-65535>
```

Configure interface advertisement mode

Use this attribute to set the label advertisement mode for an interface to either downstream-ondemand (label is sent only when requested) or downstream-unsolicited (label is sent unrequested).

Attribute Name: interface-advertisement-mode

Attribute Type: enum (downstream-unsolicited|downstream-on-demand)

Default Value: downstream-unsolicited

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <interfaces>
   <interface>
       <name>WORD</name>
       <config>
           <name>WORD</name>
       </config>
       <label-management>
       <config>
             <interface-advertisement-mode>downstream-unsolicited</interface-
advertisement-mode> <!-- operation="delete"-->
       </config>
   </label-management>
   </interface>
   </interfaces>
   </ldp>
```

Command Syntax

```
ldp advertisement-mode (downstream-unsolicited|downstream-on-demand)
```

Configure interface retention mode

Use this attribute to set the retention mode to be used for all labels exchanged via the given interface. When an LSR receives a label binding for a particular FEC (Forwarding Equivalence Class) from another LSR that is not its next hop for that FEC, it might keep track of such bindings or discard them. Use the liberal parameter to retain all labels binding to FEC received from label distribution peers, even if the LSR is not the current next-hop. Use the conservative parameter to maintain only the label bindings for valid next-hops in a LSP. Liberal label retention mode allows for quicker adaptation to routing changes, whereas conservative label retention mode requires an LSR to maintain fewer labels.

Attribute Name: interface-retention-mode

Attribute Type: enum (liberal|conservative)

Default Value: liberal

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <label-management>
      <config>
            <interface-retention-mode>liberal</interface-retention-mode> <!--
operation="delete"-->
      </config>
   </label-management>
   </interface>
   </interfaces>
   </ldp>
```

Command Syntax

```
    ldp label-retention-mode (liberal|conservative)
```

IPI-LDP-PEER

Configure targeted global hello interval

Use this attribute to set the interval for sending unicast hello packets to targeted peers

Attribute Name: targeted-global-hello-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 1-21845

Netconf edit-config payload

```
   <ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
   <targeted-peers>
   <global-timers>
   <config>
         <targeted-global-hello-interval>1</targeted-global-hello-interval> <!--
operation="delete">
   </config>
   </global-timers>
   </targeted-peers>
   </ldp>
```

Command Syntax

```
targeted-peer-hello-interval <1-21845>
```

Configure targeted global hello holdtime

Use this attribute to set the time-out value that is the time that the router waits before rejecting an adjacency with targeted peers.

Attribute Name: targeted-global-hello-holdtime

Attribute Type: uint16

Default Value: 45

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<targeted-peers>
<global-timers>
<config>
       <targeted-global-hello-holdtime>3</targeted-global-hello-holdtime> <!--
operation="delete"-->
</config>
</global-timers>
</targeted-peers>
</ldp>
```

Command Syntax

```
targeted-peer-hold-time <3-65535>
```

Configure target address

Use this attribute to enter a targeted IPv4 or IPv6 LDP peer mode. A targeted session is an LDP session between non-directly connected LSRs. Set this command to send a targeted hello messages to specific IP addresses. This command is specific to a targeted IPv4 or IPv6 LDP peer.

Attribute Name: target-address

Attribute Type: union

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<targeted-peers>
<targeted-peer> <!-- operation="delete"-->
   <target-address>LDP_IP_ADDR_T</target-address>
   <config>
      <target-address>LDP_IP_ADDR_T</target-address>
   </config>
</targeted-peer>
</targeted-peers>
</ldp>
```

Command Syntax

```
targeted-peer (ipv4 A.B.C.D)
```

Configure hello interval

Use this attribute set the hello interval to send the hello messages to peers

Attribute Name: hello-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 1-21845

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<targeted-peers>
<targeted-peer>
   <target-address>LDP_IP_ADDR_T</target-address>
   <config>
      <target-address>LDP_IP_ADDR_T</target-address>
   </config>
      <hello-interval>1</hello-interval> <!-- operation="delete"-->
</targeted-peer>
</targeted-peers>
</ldp>
```

Command Syntax

```
hello-interval <1-21845>
```

Configure hello holdtime

Use this attribute set the hello hold time as the time out value that the router waits before rejecting an adjacency

Attribute Name: hello-holdtime

Attribute Type: uint16

Default Value: 45

Attribute Range: 3-65535

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<targeted-peers>
<targeted-peer>
   <target-address>LDP_IP_ADDR_T</target-address>
   <config>
      <target-address>LDP_IP_ADDR_T</target-address>
   </config>
      <hello-holdtime>3</hello-holdtime> <!-- operation="delete"-->
</targeted-peer>
</targeted-peers>
```

```
</ldp>
```

Command Syntax

```
hold-time <3-65535>
```

Configure tunnel

Use this attribute to specify tunnel for targeted peer

Attribute Name: tunnel

Attribute Type: empty

Netconf edit-config payload

```
<ldp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ldp">
<targeted-peers>
<targeted-peer>
   <target-address>LDP_IP_ADDR_T</target-address>
   <config>
      <target-address>LDP_IP_ADDR_T</target-address>
   </config>
      </tunnel><!-- operation="delete"-->
</targeted-peer>
</targeted-peers>
</ldp>
```

Command Syntax

```
(tunneling|)
```

IPI-QOS

Configure enable qos

Use this attribute to globally enable or disable QoS

Attribute Name: enable-qos

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<config>
   <enable-qos>disable</enable-qos> <!-- operation="delete"-->
</config>
</global>
</qos>
```

Command Syntax

```
qos (disable|enable)
```

Configure name

Use this attribute to set a name to CoS to Traffic-Class profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<cos-to-queue-profiles>
<cos-to-queue-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</cos-to-queue-profile>
</cos-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
 qos profile cos-to-queue (NAME|default)
```

Configure cos value

Use this attribute to map a Class of Service (CoS) value to a particular Traffic-Class

This command is supported when following feature are enabled QoS custom options2,QoS Mapping Profile feature

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<cos-to-queue-profiles>
<cos-to-queue-profile>
   <name>NAME</name>
```

```
    <config>
       <name>WORD</name>
    </config>
<cos-to-queues>
<cos-to-queue> <!-- operation="delete"-->
    <cos-value>0</cos-value>
    <config>
       <cos-value>0</cos-value>
       <queue-id>0</queue-id>
    </config>
</cos-to-queue>
</cos-to-queues>
</cos-to-queue-profile>
</cos-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
 cos <0-7> queue <0-7>
```

Configure remark queue id

Use this attribute to select the remarked Traffic-Class cos is mapped to

This command is supported when following feature are enabled QoS custom options2,QoS Mapping Profile feature

Attribute Name: remark-queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<cos-to-queue-profiles>
<cos-to-queue-profile>
    <name>NAME</name>
    <config>
       <name>WORD</name>
    </config>
<cos-to-queues>
<cos-to-queue>
    <cos-value>0</cos-value>
    <config>
       <cos-value>0</cos-value>
```

```
        <queue-id>0</queue-id> <!-- operation="delete"-->
    </config>
        <remark-queue-id>0</remark-queue-id> <!-- operation="delete"-->
</cos-to-queue>
</cos-to-queues>
</cos-to-queue-profile>
</cos-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
cos <0-7> queue <0-7> remark-queue <0-7>
```

Configure queue id

Use this attribute to select the Traffic-Class CoS is mapped to

This command is supported when following feature are enabled QoS custom options2,QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<cos-to-queue-profiles>
<cos-to-queue-profile>
    <name>NAME</name>
    <config>
        <name>WORD</name>
    </config>
<cos-to-queues>
<cos-to-queue>
    <cos-value>0</cos-value>
    <config>
        <cos-value>0</cos-value>
    </config>
        <queue-id>0</queue-id> <!-- operation="delete"-->
</cos-to-queue>
</cos-to-queues>
</cos-to-queue-profile>
</cos-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
cos <0-7> queue <0-7>
```

Configure dscp-to-dscp-profiles name

Use this attribute to set a name to DSCP to DSCP profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-dscp-profiles>
<dscp-to-dscp-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</dscp-to-dscp-profile>
</dscp-to-dscp-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
qos profile dscp-to-dscp (NAME|default)
```

Configure color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: remark-dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-dscp-profiles>
```

```
<dscp-to-dscp-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<dscp-to-dscps>
<dscp-to-dscp> <!-- operation="delete"-->
   <color>all</color>
   <config>
      <color>all</color>
      <dscp-value>0</dscp-value>
      <remark-dscp-value>0</remark-dscp-value>
   </config>
      <dscp-value>0</dscp-value>
</dscp-to-dscp>
</dscp-to-dscps>
</dscp-to-dscp-profile>
</dscp-to-dscp-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
dscp <0-63> (color (green|yellow|red|all)|) dscp <0-63>
```

Configure precedence-to-precedence-profiles name

Use this attribute to set a name to Precedence to Precedence profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<precedence-to-precedence-profiles>
<precedence-to-precedence-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</precedence-to-precedence-profile>
</precedence-to-precedence-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
qos profile precedence-to-precedence NAME
```

Configure precedence value

Use this attribute to select IP Precedence value in

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: precedence-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: remark-precedence-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<precedence-to-precedence-profiles>
<precedence-to-precedence-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<precedence-to-precedences>
<precedence-to-precedence> <!-- operation="delete"-->
   <precedence-value>0</precedence-value>
   <config>
      <precedence-value>0</precedence-value>
      <remark-precedence-value>0</remark-precedence-value>
   </config>
</precedence-to-precedence>
</precedence-to-precedences>
</precedence-to-precedence-profile>
</precedence-to-precedence-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
precedence <0-7> precedence <0-7>
```

Configure dscp-to-queue-profiles name

Use this attribute to set a name to DSCP to Traffic-Class profile

This command is supported when following feature are enabled QoS Mapping Profile feature

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Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-queue-profiles>
<dscp-to-queue-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
 qos profile dscp-to-queue (NAME|default)
```

Configure remark dscp value

Use this attribute to select Differentiated Services Control Protocol (DSCP) value out.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: remark-dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-queue-profiles>
<dscp-to-queue-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
```

```
<dscp-to-queues>
<dscp-to-queue>
   <dscp-value>0</dscp-value>
   <config>
      <dscp-value>0</dscp-value>
      <queue-id>0</queue-id> <!-- operation="delete"-->
      <color>green</color> <!-- operation="delete"-->
   </config>
      <remark-dscp-value>0</remark-dscp-value> <!-- operation="delete"-->
</dscp-to-queue>
</dscp-to-queues>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
dscp <0-63> queue <0-7> color (green|yellow|red) dscp <0-63>
```

Configure dscp value

Use this attribute to select the color to map.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-queue-profiles>
<dscp-to-queue-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<dscp-to-queues>
<dscp-to-queue>
   <dscp-value>0</dscp-value>
   <config>
      <dscp-value>0</dscp-value>
      <queue-id>0</queue-id> <!-- operation="delete"-->
   </config>
      <color>green</color> <!-- operation="delete"-->
```

```
</dscp-to-queue>
</dscp-to-queues>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
dscp <0-63> queue <0-7> color (green|yellow|red)
```

Configure dscp-to-queue queue-id

Use this attribute to select the Traffic-Class DSCP is mapped to

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-queue-profiles>
<dscp-to-queue-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<dscp-to-queues>
<dscp-to-queue>
   <dscp-value>0</dscp-value>
   <config>
      <dscp-value>0</dscp-value>
   </config>
      <queue-id>0</queue-id> <!-- operation="delete"-->
</dscp-to-queue>
</dscp-to-queues>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
dscp <0-63> queue <0-7>
```

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Configure dscp-to-queue remark-dscp-value

Use this attribute to select Differentiated Services Control Protocol (DSCP) value out.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: remark-dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<dscp-to-queue-profiles>
<dscp-to-queue-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<dscp-to-queues>
<dscp-to-queue>
   <dscp-value>0</dscp-value>
   <config>
      <dscp-value>0</dscp-value>
      <queue-id>0</queue-id> <!-- operation="delete"-->
   </config>
      <remark-dscp-value>0</remark-dscp-value> <!-- operation="delete"-->
</dscp-to-queue>
</dscp-to-queues>
</dscp-to-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
dscp <0-63> queue <0-7> dscp <0-63>
```

Configure profile id

Use this attribute to set a name to MPLS experimental (EXP) to Traffic-Class profile name. Default value is 0.

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: profile-id

Attribute Type: enum (default)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<exp-to-queue-profiles>
<exp-to-queue-profile> <!-- operation="delete"-->
   <profile-id>default</profile-id>
   <config>
      <profile-id>default</profile-id>
   </config>
</exp-to-queue-profile>
</exp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
 qos profile exp-to-queue default
```

Configure exp value

Use this attribute to select the color mapped to.

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<exp-to-queue-profiles>
<exp-to-queue-profile>
   <profile-id>default</profile-id>
   <config>
      <profile-id>default</profile-id>
   </config>
<exp-to-queues>
<exp-to-queue>
   <exp-value>0</exp-value>
   <config>
      <exp-value>0</exp-value>
      <queue-id>0</queue-id> <!-- operation="delete"-->
   </config>
      <color>green</color> <!-- operation="delete"-->
```

```
</exp-to-queue>
</exp-to-queues>
</exp-to-queue-profile>
</exp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
exp <0-7> queue <0-7> color (green|yellow|red)
```

Configure exp-to-queue queue-id

Use this attribute to select the Traffic-Class mapped to

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<exp-to-queue-profiles>
<exp-to-queue-profile>
   <profile-id>default</profile-id>
   <config>
      <profile-id>default</profile-id>
   </config>
<exp-to-queues>
<exp-to-queue>
   <exp-value>0</exp-value>
   <config>
      <exp-value>0</exp-value>
   </config>
      <queue-id>0</queue-id> <!-- operation="delete"-->
</exp-to-queue>
</exp-to-queues>
</exp-to-queue-profile>
</exp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
exp <0-7> queue <0-7>
```

Configure remark queue value

Use this attribute to select the remark Traffic-Class is mapped to

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: remark-queue-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<exp-to-queue-profiles>
<exp-to-queue-profile>
   <profile-id>default</profile-id>
   <config>
      <profile-id>default</profile-id>
   </config>
<exp-to-queues>
<exp-to-queue>
   <exp-value>0</exp-value>
   <config>
      <exp-value>0</exp-value>
      <queue-id>0</queue-id> <!-- operation="delete"-->
   </config>
      <remark-queue-value>0</remark-queue-value> <!-- operation="delete"-->
</exp-to-queue>
</exp-to-queues>
</exp-to-queue-profile>
</exp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
exp <0-7> queue <0-7> remark-queue <0-7>
```

Configure exp-to-queue remark-queue-value

Use this attribute to select the remark Traffic-Class is mapped to

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: remark-queue-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: color

Attribute Type: enum (green|yellow|red)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<exp-to-queue-profiles>
<exp-to-queue-profile>
   <profile-id>default</profile-id>
   <config>
      <profile-id>default</profile-id>
   </config>
<exp-to-queues>
<exp-to-queue>
   <exp-value>0</exp-value>
   <config>
      <exp-value>0</exp-value>
      <queue-id>0</queue-id> <!-- operation="delete"-->
      <color>green</color> <!-- operation="delete"-->
   </config>
      <remark-queue-value>0</remark-queue-value> <!-- operation="delete"-->
</exp-to-queue>
</exp-to-queues>
</exp-to-queue-profile>
</exp-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
exp <0-7> queue <0-7> color (green|yellow|red) remark-queue <0-7>
```

Configure queue-to-exp-profiles name

Use this attribute to set a name to MPLS experimental (EXP) to Traffic-Class profile name

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
```

```
<map-profile>
<queue-to-exp-profiles>
<queue-to-exp-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</queue-to-exp-profile>
</queue-to-exp-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
qos profile queue-to-exp (NAME|default)
```

Configure queues-color-to-exp color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled Diffserv feature,QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: exp-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<queue-to-exp-profiles>
<queue-to-exp-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<queues-color-to-exp>
<queue-color-to-exp> <!-- operation="delete"-->
   <color>all</color>
   <config>
      <color>all</color>
      <queue-id>0</queue-id>
      <exp-value>0</exp-value>
   </config>
      <queue-id>0</queue-id>
</queue-color-to-exp>
</queues-color-to-exp>
</queue-to-exp-profile>
```

```
</queue-to-exp-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
queue <0-7> (color (green|yellow|red|all)|) exp <0-7>
```

Configure queue-color-to-cos-profiles name

Use this attribute to select the Traffic-Class color to CoS profile name

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<queue-color-to-cos-profiles>
<queue-color-to-cos-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</queue-color-to-cos-profile>
</queue-color-to-cos-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
qos profile queue-color-to-cos (NAME|default)
```

Configure queue-color-to-coses color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<queue-color-to-cos-profiles>
<queue-color-to-cos-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<queue-color-to-coses>
<queue-color-to-cos> <!-- operation="delete"-->
   <color>all</color>
   <config>
      <color>all</color>
      <queue-id>0</queue-id>
      <cos-value>0</cos-value>
   </config>
      <queue-id>0</queue-id>
</queue-color-to-cos>
</queue-color-to-coses>
</queue-color-to-cos-profile>
</queue-color-to-cos-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
queue <0-7> (color (green|yellow|red|all)|) cos <0-7>
```

Configure precedence-to-queue-profiles name

Use this attribute to set a name to Precedence to Traffic-Class profile

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<precedence-to-queue-profiles>
<precedence-to-queue-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
```

```
</precedence-to-queue-profile>
</precedence-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
qos profile precedence-to-queue NAME
```

Configure precedence-to-queue queue-id

Use this attribute to select the Traffic-Class IP Precedence is mapped to

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<precedence-to-queue-profiles>
<precedence-to-queue-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<precedence-to-queues>
<precedence-to-queue>
   <precedence-value>0</precedence-value>
   <config>
      <precedence-value>0</precedence-value>
   </config>
      <queue-id>0</queue-id> <!-- operation="delete"-->
</precedence-to-queue>
</precedence-to-queues>
</precedence-to-queue-profile>
</precedence-to-queue-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
precedence <0-7> queue <0-7>
```

Configure remark precedence value

Use this attribute to select IP Precedence value out.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: remark-precedence-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <global>
   <map-profile>
   <precedence-to-queue-profiles>
   <precedence-to-queue-profile>
      <name>NAME</name>
      <config>
         <name>WORD</name>
      </config>
   <precedence-to-queues>
   <precedence-to-queue>
      <precedence-value>0</precedence-value>
      <config>
         <precedence-value>0</precedence-value>
         <queue-id>0</queue-id> <!-- operation="delete"-->
      </config>
         <remark-precedence-value>0</remark-precedence-value> <!-- operation="delete"-
->
   </precedence-to-queue>
   </precedence-to-queues>
   </precedence-to-queue-profile>
   </precedence-to-queue-profiles>
   </map-profile>
   </global>
   </qos>
```

Command Syntax

```
    precedence <0-7> queue <0-7> precedence <0-7>
```

Configure queue-color-to-dscp-profiles name

Use this attribute to select the Traffic-Class color to DSCP profile name

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<queue-color-to-dscp-profiles>
<queue-color-to-dscp-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</queue-color-to-dscp-profile>
</queue-color-to-dscp-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
 qos profile queue-color-to-dscp (NAME|default)
```

Configure queue-color-to-dscps color

Use this attribute to select the color to map. Default value is 3.

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: dscp-value

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<queue-color-to-dscp-profiles>
<queue-color-to-dscp-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<queue-color-to-dscps>
<queue-color-to-dscp> <!-- operation="delete"-->
   <color>all</color>
   <config>
      <color>all</color>
      <queue-id>0</queue-id>
      <dscp-value>0</dscp-value>
   </config>
```

```
        <queue-id>0</queue-id>
    </queue-color-to-dscp>
    </queue-color-to-dscps>
    </queue-color-to-dscp-profile>
    </queue-color-to-dscp-profiles>
    </map-profile>
    </global>
    </qos>
```

Command Syntax

```
queue <0-7> (color (green|yellow|red|all)|) dscp <0-63>
```

Configure egress-dynamic-ecn-profiles name

Use this attribute to select the Egress Dynamic ECN profile name

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<egress-dynamic-ecn-profiles>
<egress-dynamic-ecn-profile> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</egress-dynamic-ecn-profile>
</egress-dynamic-ecn-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
qos profile egress-dynamic-ecn NAME
```

Configure on offset

Use this attribute to select the Traffic-Class to map

This command is supported when following feature are enabled QoS Mapping Profile feature

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: on-offset

Attribute Type: uint32

Attribute Range: 1-266338050

Attribute Name: off-offset

Attribute Type: uint32

Attribute Range: 1-266338050

Attribute Name: offset-unit

Attribute Type: enum (packets|bytes|kbytes)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<map-profile>
<egress-dynamic-ecn-profiles>
<egress-dynamic-ecn-profile>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<egress-dynamic-ecns>
<egress-dynamic-ecn> <!-- operation="delete"-->
   <queue-id>0</queue-id>
   <config>
      <queue-id>0</queue-id>
      <on-offset>1</on-offset>
      <off-offset>1</off-offset>
      <offset-unit>packets</offset-unit>
   </config>
</egress-dynamic-ecn>
</egress-dynamic-ecns>
</egress-dynamic-ecn-profile>
</egress-dynamic-ecn-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
queue <0-7> on-offset <1-266338050> off-offset <1-266338050> (packets|bytes|kbytes)
```

Configure cos

Use this command to enable remarking of CoS set by the egress map

Attribute Name: cos

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<remark>
<config>
   </cos><!-- operation="delete"-->
</config>
</remark>
</global>
</qos>
```

Command Syntax

```
qos remark cos
```

Configure dei

Use this command to enable remarking of DEI set by the egress map

Attribute Name: dei

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<remark>
<config>
   </dei><!-- operation="delete"-->
</config>
</remark>
</global>
</qos>
```

Command Syntax

```
qos remark dei
```

Configure dscp

Use this command to enable remarking of DSCP set by the egress map

Attribute Name: dscp

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<remark>
<config>
   </dscp><!-- operation="delete"-->
</config>
</remark>
```

```
</global>
</qos>
```

Command Syntax

```
qos remark dscp
```

Configure type

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
      <match-criteria>1</match-criteria>
   </config>
   <name>NAME</name>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
class-map NAME
```

Configure match criteria

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```

```
<global>
<class-maps>
<class-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
      <match-criteria>1</match-criteria>
   </config>
   <name>NAME</name>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
class-map type (qos) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
      <match-criteria>match-all</match-criteria>
   </config>
   <name>NAME</name>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
class-map type (qos) (match-all) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
      <match-criteria>match-all</match-criteria>
   </config>
   <name>NAME</name>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 class-map type (qos) (match-any) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
```

```
        <name>NAME</name>
        <match-criteria>match-all</match-criteria>
      </config>
      <name>NAME</name>
  </class-map>
  </class-maps>
  </global>
  </qos>
```

Command Syntax

```
class-map (match-any) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
  <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
  <class-maps>
  <class-map> <!-- operation="delete"-->
      <type>qos</type>
      <config>
          <type>qos</type>
          <name>NAME</name>
          <match-criteria>match-all</match-criteria>
      </config>
      <name>NAME</name>
  </class-map>
  </class-maps>
  </global>
  </qos>
```

Command Syntax

```
class-map (match-all) NAME
```

Configure class-maps name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: match-criteria

Attribute Type: enum (match-all|match-any)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
      <match-criteria>match-all</match-criteria>
   </config>
   <name>NAME</name>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 class-map type (copp) (match-any) NAME
```

Configure reference description

This attribute configures reference description message on class-map profile for QoS type.

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
   <reference-description>LINE</reference-description> <!-- operation="delete"-->
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
reference-description LINE
```

Configure access control list name

Use this attribute to classify traffic based on the Access Control List (ACL)

Attribute Name: access-control-list-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
       <access-control-list-name>NAME</access-control-list-name> <!--
operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match access-group NAME
```

Configure match-any-conditions access-control-list-name

Use this attribute to classify traffic based on the Access Control List (ACL)

Attribute Name: access-control-list-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
```

```
       <type>qos</type>
       <config>
          <type>qos</type>
          <name>NAME</name>
       </config>
       <name>NAME</name>
    <match-any-conditions>
    <config>
           <access-control-list-name>NAME</access-control-list-name> <!--
operation="delete"-->
    </config>
    </match-any-conditions>
    </class-map>
    </class-maps>
    </global>
    </qos>
```

Command Syntax

```
match access-group NAME
```

Configure ethertype

Use this attribute to classify traffic based on the EtherType value(s)

Attribute Name: ethertype

Attribute Type: string

Netconf edit-config payload

```
    <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
    <global>
    <class-maps>
    <class-map>
       <type>qos</type>
       <config>
          <type>qos</type>
          <name>NAME</name>
       </config>
       <name>NAME</name>
    <match-any-conditions>
    <config>
           <ethertype>WORD</ethertype> <!-- operation="delete"-->
    </config>
    </match-any-conditions>
    </class-map>
    </class-maps>
    </global>
    </qos>
```

Command Syntax

```
match ethertype WORD
```

Configure traffic type

Use this attribute to classify traffic based on the traffic type value

Attribute Name: traffic-type

Attribute Type: enum (l2-mc|l2-bc|default|l2-unknown)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
      <traffic-type>l2-mc</traffic-type> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match traffic-type (l2-mc|l2-bc|default|l2-unknown)
```

Configure match-any-conditions cos

Use this attribute to classify traffic based on the Class of Service (CoS) value

Attribute Name: cos

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
```

```
<match-any-conditions>
<config>
       <cos>WORD</cos> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match cos WORD
```

Configure inner cos

Use this attribute to classify traffic based on inner Class of Service (CoS) value

Attribute Name: inner-cos

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
       <inner-cos>WORD</inner-cos> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match cos inner WORD
```

Configure vlan

Use this attribute to classify traffic based on VLAN ID. Enter VLAN ID 1-4094 or range of VLAN ID’s.

Attribute Name: vlan

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
      <vlan>WORD</vlan> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 match vlan WORD
```

Configure inner vlan

Use this attribute to classify traffic based on inner VLAN ID. Enter VLAN ID 1-4094 or range of VLAN ID's.

Attribute Name: inner-vlan

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
      <inner-vlan>WORD</inner-vlan> <!-- operation="delete"-->
```

```
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match vlan inner WORD
```

Configure rtp

Use this attribute to classify traffic based on the Real-time Transport Protocol (RTP). The rtp value 2000-65535 or range of rtp values.

Attribute Name: rtp

Attribute Type: string

Attribute Range: 2000-65535

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
      <rtp>WORD</rtp> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match ip rtp WORD
```

Configure mpls exp

Use this attribute to classify traffic based on the MPLS experimental (EXP) value

Attribute Name: mpls-exp

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
       <mpls-exp>WORD</mpls-exp> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 match mpls experimental topmost WORD
```

Configure match-any-conditions dscp

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric.

Attribute Name: dscp

Attribute Type: string

Attribute Range: 0-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
       <dscp>WORD</dscp> <!-- operation="delete"-->
```

```
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match dscp WORD
```

Configure ipv6 dscp

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric.

Attribute Name: ipv6-dscp

Attribute Type: string

Attribute Range: 0-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
      <ipv6-dscp>WORD</ipv6-dscp> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match ipv6 dscp WORD
```

Configure precedence

Use this attribute to classify traffic based on the precedence value. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric.

Attribute Name: precedence

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<config>
      <precedence>WORD</precedence> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 match precedence WORD
```

Configure ipv6 precedence

Use this attribute to classify IPv6 traffic based on the precedence value. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric.

Attribute Name: ipv6-precedence

Attribute Type: string

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
```

```
<match-any-conditions>
<config>
       <ipv6-precedence>WORD</ipv6-precedence> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 match ipv6 precedence WORD
```

Configure port type

Use this attribute to classify traffic based on layer 4 source port or destination port

Attribute Name: port-type

Attribute Type: enum (source-port|destination-port)

Attribute Name: port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<ipv4>
<layer4-match> <!-- operation="delete"-->
   <port-type>source-port</port-type>
   <config>
      <port-type>source-port</port-type>
      <protocol>any</protocol>
      <port>WORD</port>
   </config>
      <protocol>any</protocol>
</layer4-match>
</ipv4>
</match-any-conditions>
</class-map>
</class-maps>
```

```
</global>
</qos>
```

Command Syntax

```
match layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure protocol

Use this attribute to classify traffic based on layer 4 source port or destination port

Attribute Name: port-type

Attribute Type: enum (source-port|destination-port)

Attribute Name: port

Attribute Type: string

Attribute Range: 1-65535

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-any-conditions>
<ipv6>
<layer4-match> <!-- operation="delete"-->
   <port-type>source-port</port-type>
   <config>
      <port-type>source-port</port-type>
      <protocol>any</protocol>
      <port>WORD</port>
   </config>
      <protocol>any</protocol>
</layer4-match>
</ipv6>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match ipv6 layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure ethertype all

Use this attribute to classify traffic based on the EtherType value

Attribute Name: ethertype-all

Attribute Type: string

Attribute Range: 5-6

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <ethertype-all>WORD</ethertype-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 match ethertype WORD
```

Configure traffic type all

Use this attribute to classify traffic based on the traffic type

Attribute Name: traffic-type-all

Attribute Type: enum (l2-mc|l2-bc|default|l2-unknown)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
```

```
<match-all-conditions>
<config>
       <traffic-type-all>l2-mc</traffic-type-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match traffic-type (l2-mc|l2-bc|default|l2-unknown)
```

Configure cos all

Use this attribute to classify traffic based on the Class of Service (CoS) value

Attribute Name: cos-all

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
       <cos-all>0</cos-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match cos <0-7>
```

Configure inner cos all

Use this attribute to classify traffic based on the inner Class of Service (CoS) value

Attribute Name: inner-cos-all

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <inner-cos-all>0</inner-cos-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 match cos inner <0-7>
```

Configure vlan all

Use this attribute to classify traffic based on the VLAN ID

Attribute Name: vlan-all

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <vlan-all>1</vlan-all> <!-- operation="delete"-->
```

```
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match vlan <1-4094>
```

Configure inner vlan all

Use this attribute to classify traffic based on the inner VLAN ID

Attribute Name: inner-vlan-all

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <inner-vlan-all>1</inner-vlan-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match vlan inner <1-4094>
```

Configure rtp all

Use this attribute to classify traffic based on the Real-time Transport Protocol (RTP)

Attribute Name: rtp-all

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <rtp-all>WORD</rtp-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
 match ip rtp WORD
```

Configure mpls exp all

Use this attribute to classify traffic based on the MPLS experimental (EXP) value

Attribute Name: mpls-exp-all

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <mpls-exp-all>0</mpls-exp-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
```

```
</class-maps>
</global>
</qos>
```

Command Syntax

```
match mpls experimental topmost <0-7>
```

Configure dscp all

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: dscp-all

Attribute Type: union

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <dscp-all>default</dscp-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7|<0-63>)
```

Configure ipv6 dscp all

Use this attribute to classify traffic based on the Differentiated Services Control Protocol (DSCP) value upon IPv6 packet. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: ipv6-dscp-all

Attribute Type: union

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
      <ipv6-dscp-all>default</ipv6-dscp-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match ipv6 dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7|<0-63>)
```

Configure precedence all

Use this attribute to classify traffic based on the precedence value. The precedence value range is 0-7. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric. The string type allow up to 13 characters on well-known name.

Attribute Name: precedence-all

Attribute Type: string

Attribute Range: 1-13

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
```

```
<config>
       <precedence-all>WORD</precedence-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match precedence WORD
```

Configure ipv6 precedence all

Use this attribute to classify traffic based on the precedence value upon IPv6 packet. The precedence value range is 0-7. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric. The string type allow up to 13 characters on well-known name.

Attribute Name: ipv6-precedence-all

Attribute Type: string

Attribute Range: 1-13

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<config>
       <ipv6-precedence-all>WORD</ipv6-precedence-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match ipv6 precedence WORD
```

Configure port all

Use this attribute to classify traffic based on the port

Attribute Name: port-all

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <name>NAME</name>
   </config>
   <name>NAME</name>
<match-all-conditions>
<layer4-matches-ipv4>
<layer4-match-ipv4> <!-- operation="delete"-->
   <port-all>WORD</port-all>
   <config>
      <port-all>1</port-all>
      <port-type-all>source-port</port-type-all>
      <protocol-all>any</protocol-all>
   </config>
      <port-type-all>source-port</port-type-all>
      <protocol-all>any</protocol-all>
</layer4-match-ipv4>
</layer4-matches-ipv4>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure protocol all

Use this attribute to classify traffic based on the port

Attribute Name: port-all

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
   <type>qos</type>
   <config>
```

```
        <type>qos</type>
        <name>NAME</name>
    </config>
    <name>NAME</name>
<match-all-conditions>
<layer4-matches-ipv6>
<layer4-match-ipv6> <!-- operation="delete"-->
    <port-all>WORD</port-all>
    <config>
        <port-all>1</port-all>
        <port-type-all>source-port</port-type-all>
        <protocol-all>any</protocol-all>
    </config>
        <port-type-all>source-port</port-type-all>
        <protocol-all>any</protocol-all>
</layer4-match-ipv6>
</layer4-matches-ipv6>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match ipv6 layer4 (any|tcp|udp) (source-port|destination-port) WORD
```

Configure class-maps-queuing name

Use this attribute to set the class-map-queuing name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps-queuing>
<class-map-queuing> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
        <name>NAME</name>
        <type>qos</type>
    </config>
</class-map-queuing>
</class-maps-queuing>
</global>
```

```
</qos>
```

Command Syntax

```
class-map type (queuing) WORD
```

Configure class-maps-queuing name

Use this attribute to set the class-map-queuing name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps-queuing>
<class-map-queuing> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>NAME</name>
      <type>qos</type>
   </config>
</class-map-queuing>
</class-maps-queuing>
</global>
</qos>
```

Command Syntax

```
class-map type (queuing) WORD
```

Configure class-map-queuing reference-description

This attribute configures reference description message on class-map profile for queuing.

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps-queuing>
<class-map-queuing>
   <name>WORD</name>
   <config>
```

```
        <name>NAME</name>
      </config>
      <reference-description>LINE</reference-description> <!-- operation="delete"-->
</class-map-queuing>
</class-maps-queuing>
</global>
</qos>
```

Command Syntax

```
reference-description LINE
```

Configure vlan queue

Use this attribute to classify traffic based on the VLAN ID

Attribute Name: vlan-queue

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps-queuing>
<class-map-queuing>
   <name>WORD</name>
   <config>
      <name>NAME</name>
   </config>
<match-conditions>
<config>
      <vlan-queue>1</vlan-queue> <!-- operation="delete"-->
</config>
</match-conditions>
</class-map-queuing>
</class-maps-queuing>
</global>
</qos>
```

Command Syntax

```
match vlan <1-4094>
```

Configure queue

Use this attribute to classify traffic based on queue value

Attribute Name: queue

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <global>
   <class-maps-queuing>
   <class-map-queuing>
      <name>WORD</name>
      <config>
         <name>NAME</name>
      </config>
   <match-conditions>
   <config>
         <queue>0</queue> <!-- operation="delete"-->
   </config>
   </match-conditions>
   </class-map-queuing>
   </class-maps-queuing>
   </global>
   </qos>
```

Command Syntax

```
    match queue <0-7>
```

Configure service template name

Use this attribute to classify traffic based on service template

Attribute Name: service-template-name

Attribute Type: string

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <global>
   <class-maps-queuing>
   <class-map-queuing>
      <name>WORD</name>
      <config>
         <name>NAME</name>
      </config>
   <match-conditions>
   <config>
         <service-template-name>NAME</service-template-name> <!-- operation="delete"--
>
   </config>
   </match-conditions>
   </class-map-queuing>
   </class-maps-queuing>
   </global>
   </qos>
```

Command Syntax

```
match service-template NAME
```

Configure interface

Use this attribute to classify traffic based on the subinterface or vlan interface name

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps-queuing>
<class-map-queuing>
   <name>WORD</name>
   <config>
      <name>NAME</name>
   </config>
<match-conditions>
<config>
      <interface>IFNAME</interface> <!-- operation="delete"-->
</config>
</match-conditions>
</class-map-queuing>
</class-maps-queuing>
</global>
</qos>
```

Command Syntax

```
match interface IFNAME
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
```

```
    </config>
    <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map NAME
```

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map> <!-- operation="delete"-->
    <type>qos</type>
    <config>
        <type>qos</type>
        <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (qos) NAME
```

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
```

```
<policy-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (queuing) NAME
```

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (queuing default) NAME
```

Configure policy-maps policy-map-name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map> <!-- operation="delete"-->
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (copp) NAME
```

Configure policy-map reference-description

This attribute configures reference description message on policy-map profile

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
   <reference-description>LINE</reference-description> <!-- operation="delete"-->
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
reference-description LINE
```

Configure class map name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class> <!-- operation="delete"-->
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
      <class-type>qos</class-type>
   </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
 class (type (qos)|) NAME
```

Configure class type

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```

```
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class> <!-- operation="delete"-->
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
      <class-type>qos</class-type>
   </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
 class (type (qos)|) class-default
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class> <!-- operation="delete"-->
   <class-map-name>NAME</class-map-name>
```

```
    <config>
       <class-map-name>NAME</class-map-name>
       <class-type>queuing</class-type>
    </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
class (type (queuing)|) class-default-q
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: string

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
    <type>qos</type>
    <config>
       <type>qos</type>
       <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
<classes>
<class> <!-- operation="delete"-->
    <class-map-name>NAME</class-map-name>
    <config>
       <class-map-name>NAME</class-map-name>
       <class-type>queuing</class-type>
    </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
class (type (queuing)|) NAME
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: union

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class> <!-- operation="delete"-->
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
      <class-type>qos</class-type>
   </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
class type (queuing default) (q0|q1|q2|q3|q4|q5|q6|q7)
```

Configure classes class-map-name

Use this attribute to attach a class-map of type qos or queue to the policy-map

Attribute Name: class-map-name

Attribute Type: string

Attribute Name: class-type

Attribute Type: enum (qos|queuing|queuing default|copp)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class> <!-- operation="delete"-->
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
      <class-type>qos</class-type>
   </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
 class type (copp) NAME
```

Configure child service policy name

Use this attribute to attach a child service-policy to the policy-map

Attribute Name: child-service-policy-name

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
```

```
          <class-map-name>NAME</class-map-name>
       </config>
          <child-service-policy-name>NAME</child-service-policy-name> <!--
operation="delete"-->
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
    service-policy NAME
```

Configure class reference-description

This attribute configures reference description message on the association between policy-map profile and class-map profile.

Attribute Name: reference-description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <global>
   <policy-maps>
   <policy-map>
      <type>qos</type>
      <config>
         <type>qos</type>
         <policy-map-name>NAME</policy-map-name>
      </config>
      <policy-map-name>NAME</policy-map-name>
   <classes>
   <class>
      <class-map-name>NAME</class-map-name>
      <config>
         <class-map-name>NAME</class-map-name>
      </config>
         <reference-description>LINE</reference-description> <!-- operation="delete"--
>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
reference-description LINE
```

Configure byte compensation

Use this attribute to set the compensation used to adjust this byte difference in order to achieve the expected egress queue rate.

Attribute Name: byte-compensation

Attribute Type: int8

Attribute Range: -64-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <config>
          <byte-compensation>-64</byte-compensation> <!-- operation="delete"-->
   </config>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
compensation <-64-64>
```

Configure priority level

Use this attribute to set the class traffic level for Priority queue scheduling algorithm

Attribute Name: priority-level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <config>
          <priority-level>0</priority-level> <!-- operation="delete"-->
   </config>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
 priority level <0-7>
```

Configure weighted fair queueing queue weight

Use this attribute to set the weight for Weighted Fair Queueing queue scheduling algorithm

Attribute Name: weighted-fair-queueing-queue-weight

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
```

```
       <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
       </config>
       <policy-map-name>NAME</policy-map-name>
    <classes>
    <class>
       <class-map-name>NAME</class-map-name>
       <config>
          <class-map-name>NAME</class-map-name>
       </config>
       <queue-mode>
       <config>
             <weighted-fair-queueing-queue-weight>1</weighted-fair-queueing-queue-
weight> <!-- operation="delete"-->
       </config>
    </queue-mode>
    </class>
    </classes>
    </policy-map>
    </policy-maps>
    </global>
    </qos>
```

Command Syntax

```
     wfq-queue weight <1-63>
```

Configure weight

Use this attribute to set weight for Weighted Random Early Detection

Attribute Name: weight

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
    <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
    <global>
    <policy-maps>
    <policy-map>
       <type>qos</type>
       <config>
          <type>qos</type>
          <policy-map-name>NAME</policy-map-name>
       </config>
       <policy-map-name>NAME</policy-map-name>
    <classes>
    <class>
       <class-map-name>NAME</class-map-name>
       <config>
```

```
        <class-map-name>NAME</class-map-name>
      </config>
      <queue-mode>
      <red>
      <config>
            <weight>0</weight> <!-- operation="delete"-->
      </config>
   </red>
   </queue-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
random-detect weight <0-15>
```

Configure min threshold

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <global>
   <policy-maps>
   <policy-map>
```

```
      <type>qos</type>
      <config>
         <type>qos</type>
         <policy-map-name>NAME</policy-map-name>
      </config>
      <policy-map-name>NAME</policy-map-name>
   <classes>
   <class>
      <class-map-name>NAME</class-map-name>
      <config>
         <class-map-name>NAME</class-map-name>
      </config>
      <queue-mode>
      <red>
      <wreds>
      <wred> <!-- operation="delete"-->
         <color>all</color>
         <config>
            <color>all</color>
            <min-threshold>1</min-threshold>
            <min-threshold-unit>packets</min-threshold-unit>
            <max-threshold>1</max-threshold>
            <max-threshold-unit>packets</max-threshold-unit>
            <drop-probability>1</drop-probability>
         </config>
      </wred>
   </wreds>
   </red>
   </queue-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
random-detect ((green|yellow|red|all)|) <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)
```

Configure min threshold unit

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <red>
   <wreds>
   <wred> <!-- operation="delete"-->
      <color>all</color>
      <config>
         <color>all</color>
         <min-threshold>1</min-threshold>
         <min-threshold-unit>packets</min-threshold-unit>
         <max-threshold>1</max-threshold>
         <max-threshold-unit>packets</max-threshold-unit>
         <drop-probability>1</drop-probability>
      </config>
   </wred>
</wreds>
</red>
```

```
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
random-detect ((green|yellow|red|all)|) min-threshold <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) max-threshold <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)
```

Configure max threshold

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
```

```
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <red>
   <wreds>
   <wred> <!-- operation="delete"-->
      <color>all</color>
      <config>
         <color>all</color>
         <min-threshold>1</min-threshold>
         <min-threshold-unit>packets</min-threshold-unit>
         <max-threshold>1</max-threshold>
         <max-threshold-unit>packets</max-threshold-unit>
         <drop-probability>1</drop-probability>
      </config>
   </wred>
</wreds>
</red>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
random-detect ((green|yellow|red|all)|) <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) max-threshold <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)
```

Configure max threshold unit

Use this attribute to set Weighted Random Early Detection color. Default value is 3.

This command is supported when following feature are enabled QoS custom options2

Attribute Name: color

Attribute Type: enum (green|yellow|red|all)

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: min-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-629145600

Attribute Name: max-threshold-unit

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <red>
   <wreds>
   <wred> <!-- operation="delete"-->
      <color>all</color>
      <config>
         <color>all</color>
         <min-threshold>1</min-threshold>
         <min-threshold-unit>packets</min-threshold-unit>
         <max-threshold>1</max-threshold>
         <max-threshold-unit>packets</max-threshold-unit>
         <drop-probability>1</drop-probability>
      </config>
   </wred>
</wreds>
</red>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
random-detect ((green|yellow|red|all)|) min-threshold <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) <1-629145600>
  (packets|bytes|kbytes|mbytes|ms|us) (drop-probability <1-100>|)
```

Configure max threshold type

Use this attribute to set tail drop limits on egress queue

Attribute Name: max-threshold-type

Attribute Type: enum (packets|bytes|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <tail-drops>
   <tail-drop> <!-- operation="delete"-->
      <max-threshold-type>packets</max-threshold-type>
      <config>
         <max-threshold-type>packets</max-threshold-type>
         <max-threshold>1</max-threshold>
      </config>
         <max-threshold>1</max-threshold>
   </tail-drop>
</tail-drops>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
queue-limit <1-629145600> (packets|bytes|kbytes|mbytes|ms|us)
```

Configure rate value

Use this attribute to set a maximum shaping rate on the egress queue

Attribute Name: rate-value

Attribute Type: uint32

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <shapes>
   <shape> <!-- operation="delete"-->
      <rate-unit>kbps</rate-unit>
      <config>
         <rate-unit>kbps</rate-unit>
         <rate-value>0</rate-value>
      </config>
         <rate-value>0</rate-value>
   </shape>
</shapes>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
shape <1-483000000> (kbps|mbps|gbps)
```

Configure rate unit

Use this attribute to set a maximum shaping rate on the egress queue

Attribute Name: rate-value

Attribute Type: uint32

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <queue-mode>
   <shapes>
   <shape> <!-- operation="delete"-->
      <rate-unit>kbps</rate-unit>
      <config>
         <rate-unit>kbps</rate-unit>
         <rate-value>0</rate-value>
      </config>
         <rate-value>0</rate-value>
   </shape>
</shapes>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
shape (percent) <1-100>
```

Configure priority

Use this attribute to set the user priority for the class attached to this policy-map

Attribute Name: priority

Attribute Type: uint16

Attribute Range: 1-1000

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <config>
          <priority>1</priority> <!-- operation="delete"-->
   </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
priority <1-1000>
```

Configure color value remark

Use this attribute to match traffic classes set action as change color for egress processing.

Attribute Name: color-value-remark

Attribute Type: enum (green|yellow|red)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
```

```
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <config>
         <color-value-remark>green</color-value-remark> <!-- operation="delete"-->
   </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set color (green|yellow|red)
```

Configure precedence remark

Use this attribute to match traffic classes set action as change precedence in the egress packet to the defined value. The precedence value range is 0-7. Warning: In CLI show running, precedence values with well-known names (ex.: priority, immediate) will be displayed as such. On Netconf, precedence values will always be numeric. The string type allow up to 13 characters on well-known name.

Attribute Name: precedence-remark

Attribute Type: string

Attribute Range: 1-13

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
```

```
    <config>
           <precedence-remark>WORD</precedence-remark> <!-- operation="delete"-->
    </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
 set precedence WORD
```

Configure qos-mode cos-value

Use this attribute to match traffic classes set action as change CoS in the egress packet to the defined value

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
<classes>
<class>
    <class-map-name>NAME</class-map-name>
    <config>
        <class-map-name>NAME</class-map-name>
    </config>
    <qos-mode>
    <config>
           <cos-value>0</cos-value> <!-- operation="delete"-->
    </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set cos <0-7>
```

Configure dscp value remark

Use this attribute to match traffic classes set action as change DSCP in the egress packet to the defined value. The DSCP value range is 0-63. Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such. On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: dscp-value-remark

Attribute Type: string

Attribute Range: 1-8

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <config>
          <dscp-value-remark>WORD</dscp-value-remark> <!-- operation="delete"-->
   </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set dscp WORD
```

Configure qos-mode queue-id

Use this attribute to match traffic classes set action as change queue in the egress packet to the defined value

Attribute Name: queue-id

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <config>
          <queue-id>0</queue-id> <!-- operation="delete"-->
   </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set queue <0-7>
```

Configure cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
         <police-type>none</police-type> <!-- operation="delete"-->
         <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
         <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps)
```

Configure police type

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
         <police-type>none</police-type> <!-- operation="delete"-->
         <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
         <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100>
```

Configure cir unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
  2438400000> (kbps|mbps|gbps)
```

Configure eir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
         <police-type>none</police-type> <!-- operation="delete"-->
         <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
         <eir>1</eir> <!-- operation="delete"-->
         <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
         <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
  (kbps|mbps|gbps)
```

Configure eir unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
```

```
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
  percent <1-100>
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
    <type>qos</type>
    <config>
        <type>qos</type>
        <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
<classes>
<class>
    <class-map-name>NAME</class-map-name>
    <config>
        <class-map-name>NAME</class-map-name>
    </config>
```

```
      <qos-mode>
      <police>
      <config>
             <police-type>none</police-type> <!-- operation="delete"-->
             <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
             <eir>1</eir> <!-- operation="delete"-->
             <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
             <cir>1</cir> <!-- operation="delete"-->
      </config>
   </police>
   </qos-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100>
```

Configure bc

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
         <police-type>none</police-type> <!-- operation="delete"-->
         <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
         <eir>1</eir> <!-- operation="delete"-->
         <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
         <bc>1</bc> <!-- operation="delete"-->
         <bc-unit>none</bc-unit> <!-- operation="delete"-->
         <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
  2438400000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us)
```

Configure bc unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
```

```
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
  (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
```

```
      <config>
         <class-map-name>NAME</class-map-name>
      </config>
      <qos-mode>
      <police>
      <config>
            <police-type>none</police-type> <!-- operation="delete"-->
            <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
            <eir>1</eir> <!-- operation="delete"-->
            <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
            <bc>1</bc> <!-- operation="delete"-->
            <bc-unit>none</bc-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
      </config>
   </police>
   </qos-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
  percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100> bc
  <1-4161> (kbytes|mbytes|ms|us)
```

Configure be

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
```

```
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
  2438400000> (kbps|mbps|gbps) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure be unit

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
```

```
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
         <police-type>none</police-type> <!-- operation="delete"-->
         <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
         <eir>1</eir> <!-- operation="delete"-->
         <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
         <be>1</be> <!-- operation="delete"-->
         <be-unit>none</be-unit> <!-- operation="delete"-->
         <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
  (kbps|mbps|gbps) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
  percent <1-100> be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
```

```
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100> be
  <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
```

```
        <policy-map-name>NAME</policy-map-name>
    </config>
    <policy-map-name>NAME</policy-map-name>
<classes>
<class>
    <class-map-name>NAME</class-map-name>
    <config>
        <class-map-name>NAME</class-map-name>
    </config>
    <qos-mode>
    <police>
    <config>
           <police-type>none</police-type> <!-- operation="delete"-->
           <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
           <bc>1</bc> <!-- operation="delete"-->
           <bc-unit>none</bc-unit> <!-- operation="delete"-->
           <be>1</be> <!-- operation="delete"-->
           <be-unit>none</be-unit> <!-- operation="delete"-->
           <cir>1</cir> <!-- operation="delete"-->
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) bc <1-
  4161> (kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
         <police-type>none</police-type> <!-- operation="delete"-->
         <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
         <bc>1</bc> <!-- operation="delete"-->
         <bc-unit>none</bc-unit> <!-- operation="delete"-->
         <be>1</be> <!-- operation="delete"-->
         <be-unit>none</be-unit> <!-- operation="delete"-->
         <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> bc <1-4161>
  (kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
```

```
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) bc <1-
  4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
```

```
            <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
            <bc>1</bc> <!-- operation="delete"-->
            <bc-unit>none</bc-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
      </config>
   </police>
   </qos-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> bc <1-4161>
  (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <global>
   <policy-maps>
   <policy-map>
      <type>qos</type>
      <config>
         <type>qos</type>
         <policy-map-name>NAME</policy-map-name>
      </config>
      <policy-map-name>NAME</policy-map-name>
```

```
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) be <1-
  4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
```

```
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> be <1-4161>
  (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
```

```
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir <1-
  2438400000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
  (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
```

```
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir <1-2438400000>
  (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
  (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
```

```
            <bc-unit>none</bc-unit> <!-- operation="delete"-->
            <be>1</be> <!-- operation="delete"-->
            <be-unit>none</be-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
      </config>
   </police>
   </qos-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps) eir
  percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
  (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir percent <1-100> eir percent <1-100> bc
  <1-4161> (kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir <1-
  200000000> (kbps|mbps|gbps)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
```

```
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir
  percent <1-100>
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
```

```
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir <1-
  200000000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir
  percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
```

```
      </config>
   </police>
   </qos-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir <1-
  200000000> (kbps|mbps|gbps) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
```

```
    <policy-map-name>NAME</policy-map-name>
<classes>
<class>
    <class-map-name>NAME</class-map-name>
    <config>
       <class-map-name>NAME</class-map-name>
    </config>
    <qos-mode>
    <police>
    <config>
           <police-type>none</police-type> <!-- operation="delete"-->
           <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
           <eir>1</eir> <!-- operation="delete"-->
           <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
           <be>1</be> <!-- operation="delete"-->
           <be-unit>none</be-unit> <!-- operation="delete"-->
           <cir>1</cir> <!-- operation="delete"-->
    </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir
  percent <1-100> be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
          <be-unit>none</be-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) bc <1-
  4161> (kbytes|mbytes|ms|us) be <1-4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <bc>1</bc> <!-- operation="delete"-->
          <bc-unit>none</bc-unit> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
```

```
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) bc <1-
  4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <be>1</be> <!-- operation="delete"-->
```

```
            <be-unit>none</be-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
      </config>
   </police>
   </qos-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) be <1-
  4161> (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
         <police-type>none</police-type> <!-- operation="delete"-->
         <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
         <eir>1</eir> <!-- operation="delete"-->
         <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
         <bc>1</bc> <!-- operation="delete"-->
         <bc-unit>none</bc-unit> <!-- operation="delete"-->
         <be>1</be> <!-- operation="delete"-->
         <be-unit>none</be-unit> <!-- operation="delete"-->
         <cir>1</cir> <!-- operation="delete"-->
   </config>
</police>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir <1-
  200000000> (kbps|mbps|gbps) bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
  (kbytes|mbytes|ms|us)
```

Configure police cir

Use this attribute to set a Committed Information Rate. Default value is 1.

Attribute Name: cir

Attribute Type: uint64

Attribute Name: police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: eir

Attribute Type: uint64

Attribute Range: 1-2438400000

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps|gbps|percent)

Attribute Name: bc

Attribute Type: uint64

Attribute Range: 1-4161

Attribute Name: bc-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Attribute Name: be

Attribute Type: uint32

Attribute Range: 1-4161

Attribute Name: be-unit

Attribute Type: enum (none|kbytes|mbytes|ms|us)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
   <type>qos</type>
   <config>
      <type>qos</type>
      <policy-map-name>NAME</policy-map-name>
   </config>
   <policy-map-name>NAME</policy-map-name>
<classes>
<class>
   <class-map-name>NAME</class-map-name>
   <config>
      <class-map-name>NAME</class-map-name>
   </config>
   <qos-mode>
   <police>
   <config>
          <police-type>none</police-type> <!-- operation="delete"-->
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
```

```
            <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
            <bc>1</bc> <!-- operation="delete"-->
            <bc-unit>none</bc-unit> <!-- operation="delete"-->
            <be>1</be> <!-- operation="delete"-->
            <be-unit>none</be-unit> <!-- operation="delete"-->
            <cir>1</cir> <!-- operation="delete"-->
      </config>
   </police>
   </qos-mode>
   </class>
   </classes>
   </policy-map>
   </policy-maps>
   </global>
   </qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-200000000> (kbps|mbps|gbps) eir
  percent <1-100> bc <1-4161> (kbytes|mbytes|ms|us) be <1-4161>
  (kbytes|mbytes|ms|us)
```

Configure copp cir unit

Use this attribute to set the Committed Information rate unit in kbps,mbps or gbps for copp police

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: copp-cir-unit

Attribute Type: enum (kbps|mbps|gbps)

Attribute Name: copp-police-type

Attribute Type: enum (none|colour-blind|colour-aware)

Attribute Name: copp-cir

Attribute Type: uint64

Attribute Range: 1-2438400000

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <global>
   <policy-maps>
   <policy-map>
      <type>qos</type>
      <config>
         <type>qos</type>
         <policy-map-name>NAME</policy-map-name>
      </config>
      <policy-map-name>NAME</policy-map-name>
   <classes>
   <class>
      <class-map-name>NAME</class-map-name>
```

```
    <config>
       <class-map-name>NAME</class-map-name>
    </config>
    <copp-mode>
    <police>
    <config>
          <copp-police-type>none</copp-police-type> <!-- operation="delete"-->
          <copp-cir>1</copp-cir> <!-- operation="delete"-->
          <copp-cir-unit>kbps</copp-cir-unit> <!-- operation="delete"-->
    </config>
</police>
</copp-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
police ((colour-blind|colour-aware)|) cir <1-2438400000> (kbps|mbps|gbps)
```

Configure enabled

Use this attribute to enable QoS statistics

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<statistics>
<config>
   </enabled><!-- operation="delete"-->
</config>
</statistics>
</global>
</qos>
```

Command Syntax

```
qos statistics
```

Configure disabled

Use this attribute to disable red packet drop in the system. Red packets are dropped in the system by default to achieve ingress rate limiting via policer and storm control. However, this command is used when there is no use-case for rate limiting traffic and red packets need to be allowed in the system

Attribute Name: disabled

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<red-drop>
<config>
   </disabled><!-- operation="delete"-->
</config>
</red-drop>
</global>
</qos>
```

Command Syntax

```
qos red-drop-disable
```

Configure copp-service-policy policy-map-name

Use this attribute to set.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<copp-service-policy>
<config>
   <policy-map-name>NAME</policy-map-name> <!-- operation="delete"-->
</config>
</copp-service-policy>
</global>
</qos>
```

Command Syntax

```
copp service-policy NAME
```

clear qos statistics (interface IFNAME|) ((type qos|type qos input|type qos output|type queuing|type copp|type all)|)

Attribute Name: interface-name

Attribute Type: string

Default Value: NULL

Attribute Name: type

Attribute Type: enum (type qos|type qos input|type qos output|type queuing|type copp|type all)

Default Value: type all

Netconf RPC payload

```
<qos-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interface-name>IFNAME</interface-name>
<type>type all</type>
</qos-clear-statistics>
```

Command Syntax

```
clear qos statistics (interface IFNAME|) ((type qos|type qos input|type qos
  output|type queuing|type copp|type all)|)
```

IPI-QOS-IF

Configure lag shaper unit

Use this command to enable/disable lag shaper

Attribute Name: lag-shaper-unit

Attribute Type: uint8

Attribute Range: 0-1

Attribute Name: lag-shaper

Attribute Type: enum (unified)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
      <lag-shaper>unified</lag-shaper> <!-- operation="delete"-->
   </config>
      <lag-shaper-unit>0</lag-shaper-unit> <!-- operation="delete"-->
</interface>
</interfaces>
</qos>
```

Command Syntax

```
lag-shaper (unified) (unit <0-1>|)
```

Configure untagged priority

Use this attribute to set internal priority for untagged traffic on L2 interface

Attribute Name: untagged-priority

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <untagged-priority>0</untagged-priority> <!-- operation="delete"-->
</interface>
</interfaces>
</qos>
```

Command Syntax

```
 qos untagged-priority <0-7>
```

Configure trust dscp

Use this command to classify the ingress traffic based on DSCP map on L2 interface

Attribute Name: trust-dscp

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </trust-dscp><!-- operation="delete"-->
</interface>
</interfaces>
</qos>
```

Command Syntax

```
 trust dscp
```

Configure cos

Use this command to enable/disable remarking of CoS set by the egress map

Attribute Name: cos

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <remark>
   <config>
         <cos>disable</cos> <!-- operation="delete"-->
   </config>
</remark>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos remark cos (disable|enable)
```

Configure inner cos

Remarking of CoS for inner-vlan(applies for inner-vlan updated by rewrite)

Attribute Name: inner-cos

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <remark>
   <config>
         </inner-cos><!-- operation="delete"-->
   </config>
</remark>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos remark inner-cos
```

Configure dscp

Use this command to enable/disable remarking of DSCP set by the egress map

Attribute Name: dscp

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <remark>
   <config>
         <dscp>disable</dscp> <!-- operation="delete"-->
   </config>
</remark>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
 qos remark dscp (disable|enable)
```

Configure name

Interface name for which QoS is being configured

Attribute Name: name

Attribute Type: string

Attribute Name: rate

Attribute Type: uint64

Attribute Name: rate-unit

Attribute Type: enum (kbps|mbps|gbps)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <traffic-shape>
   <config>
      <rate>1</rate>
         <rate-unit>kbps</rate-unit>
      </config>
   </traffic-shape>
</interface>
```

```
</interfaces>
</qos>
```

Command Syntax

```
shape rate <1-1000000000> (kbps|mbps|gbps)
```

Configure rate

Interface name for which QoS is being configured

Attribute Name: name

Attribute Type: string

Attribute Name: rate

Attribute Type: uint64

Attribute Name: rate-unit

Attribute Type: enum (kbps|mbps|gbps)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <traffic-shape>
   <config>
      <rate>1</rate>
         <rate-unit>kbps</rate-unit>
      </config>
   </traffic-shape>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
shape rate <1-1000000000> (kbps|mbps|gbps)
```

Configure cos to queue

Use this attibute to attach a CoS to Traffic-Class profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: cos-to-queue

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
```

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <map-profile>
   <config>
         <cos-to-queue>NAME</cos-to-queue> <!-- operation="delete"-->
   </config>
</map-profile>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
 qos map-profile cos-to-queue NAME
```

Configure dscp to dscp

Use this attibute to attach a DSCP to DSCP profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: dscp-to-dscp

Attribute Type: string

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <map-profile>
   <config>
         <dscp-to-dscp>NAME</dscp-to-dscp> <!-- operation="delete"-->
   </config>
</map-profile>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
 qos map-profile dscp-to-dscp NAME
```

Configure precedence to precedence

Use this attibute to attach a Precedence to Precedencde profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: precedence-to-precedence

Attribute Type: string

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <map-profile>
      <config>
            <precedence-to-precedence>NAME</precedence-to-precedence> <!--
operation="delete"-->
      </config>
   </map-profile>
   </interface>
   </interfaces>
   </qos>
```

Command Syntax

```
    qos map-profile precedence-to-precedence NAME
```

Configure dscp to queue

Use this attibute to attach a DSCP to Traffic-Class profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: dscp-to-queue

Attribute Type: string

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <map-profile>
      <config>
            <dscp-to-queue>NAME</dscp-to-queue> <!-- operation="delete"-->
      </config>
   </map-profile>
   </interface>
   </interfaces>
   </qos>
```

Command Syntax

```
qos map-profile dscp-to-queue NAME
```

Configure precedence to queue

Use this attibute to attach a Precedence to Traffic-Class profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: precedence-to-queue

Attribute Type: string

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <map-profile>
      <config>
            <precedence-to-queue>NAME</precedence-to-queue> <!-- operation="delete"--
>
      </config>
   </map-profile>
   </interface>
   </interfaces>
   </qos>
```

Command Syntax

```
qos map-profile precedence-to-queue NAME
```

Configure queue color to cos

Use this attibute to attach a Traffic-Class color to CoS profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: queue-color-to-cos

Attribute Type: string

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <map-profile>
```

```
      <config>
            <queue-color-to-cos>NAME</queue-color-to-cos> <!-- operation="delete"-->
      </config>
   </map-profile>
   </interface>
   </interfaces>
   </qos>
```

Command Syntax

```
 qos map-profile queue-color-to-cos NAME
```

Configure queue to exp

Use this attibute to attach a Traffic-Class to exp profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: queue-to-exp

Attribute Type: string

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <map-profile>
      <config>
            <queue-to-exp>NAME</queue-to-exp> <!-- operation="delete"-->
      </config>
   </map-profile>
   </interface>
   </interfaces>
   </qos>
```

Command Syntax

```
 qos map-profile queue-to-exp NAME
```

Configure egress dynamic ecn

Use this attibute to attach an egress dynamic ECN profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: egress-dynamic-ecn

Attribute Type: string

Attribute Range: 1-31

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <map-profile>
   <config>
         <egress-dynamic-ecn>NAME</egress-dynamic-ecn> <!-- operation="delete"-->
   </config>
</map-profile>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos map-profile egress-dynamic-ecn NAME
```

Configure type qos policy map name

Use this attribute to attach a service-policy of type qos to the interface

Attribute Name: type-qos-policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <service-policy>
   <ingress>
   <config>
         <type-qos-policy-map-name>NAME</type-qos-policy-map-name> <!--
operation="delete"-->
   </config>
</ingress>
</service-policy>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
service-policy type qos input NAME
```

Configure egress type-qos-policy-map-name

Use this attribute to attach a service-policy of type qos to the interface

Attribute Name: type-qos-policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <service-policy>
      <egress>
      <config>
            <type-qos-policy-map-name>NAME</type-qos-policy-map-name> <!--
operation="delete"-->
      </config>
   </egress>
   </service-policy>
   </interface>
   </interfaces>
   </qos>
```

Command Syntax

```
    service-policy type qos output NAME
```

Configure type queuing policy map name

Use this attribute to attach a service-policy of type queue to the interface

Attribute Name: type-queuing-policy-map-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
   <interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos-if">
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <service-policy>
      <egress>
```

```
       <config>
             <type-queuing-policy-map-name>NAME</type-queuing-policy-map-name> <!--
operation="delete"-->
       </config>
   </egress>
   </service-policy>
   </interface>
   </interfaces>
   </qos>
```

Command Syntax

```
    service-policy type queuing output NAME
```

IPI-RSVP

Configure options

Use this attribute to enable all debugging options for an RSVP daemon. Enable RSVP debugs at configuration mode

Attribute Name: options

Attribute Type: bits (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all)

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <debug>
   <config>
      <options>events</options> <!-- operation="delete"-->
   </config>
   </debug>
   </rsvp-te>
```

Command Syntax

```
    debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm
      transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm
      transit|all|)
```

Configure enable rsvp trap

Use this attribute to enable/disable the rsvp trap

Attribute Name: enable-rsvp-trap

Attribute Type: uint8

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <snmp-configuration>
   <config>
```

```
   </enable-rsvp-trap><!-- operation="delete"-->
</config>
</snmp-configuration>
</rsvp-te>
```

Command Syntax

```
rsvp-trap enable
```

Configure disable refresh resv parsing

Use this attribute to disable parsing of Refresh RESV messages received from upstream nodes. Use this attribute to minimize message processing by RSVP when you are sure that a particular router does not need to parse Refresh RESV messages to check for changes because LSPs passing through this router are not required to be updated simultaneously.

Attribute Name: disable-refresh-resv-parsing

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   </disable-refresh-resv-parsing><!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no refresh-resv-parsing
```

Configure disable refresh path parsing

Use this attribute to disable parsing of Refresh PATH messages received from upstream nodes. Use this attribute to minimize message processing by RSVP when you are sure that a particular router does not need to parse Refresh-PATH messages to check for changes, because LSPs passing through this router are not required to be updated simultaneously.

Attribute Name: disable-refresh-path-parsing

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   </disable-refresh-path-parsing><!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no refresh-path-parsing
```

Configure disable loop detection

Use this attribute to turn on loop detection for Path and Reservation messages exchanged between LSRs

Attribute Name: disable-loop-detection

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   </disable-loop-detection><!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no loop-detection
```

Configure enable php

Use this attribute to enable Penultimate-Hop-Popping for the router. An egress router sends either the implicit-null or the explicit-null label for LSPs. If the no-php command has been enabled, the egress router sends non-reserved labels (those labels in the label pool range allotted to RSVP) to the upstream router.

Attribute Name: enable-php

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   </enable-php><!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
php
```

Configure enable entropy label capability

Use this attribute to enable Entropy Label Capability (ELC) for the router. An egress router may insert ELC TLV in Attributes Flags TLV of Resv message. If no entropy-label-capability command has been enabled, the egress router doesnt include ELC TLV in Resv message.

Attribute Name: enable-entropy-label-capability

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   </enable-entropy-label-capability><!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
entropy-label-capability
```

Configure enable bundle send

Use thi attrubute Enable sending of BUNDLE messages for all the interfaces

Attribute Name: enable-bundle-send

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   </enable-bundle-send><!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
bundle-send
```

Configure enable explicit null

Use this attribute to send explicit-null labels for directly-connected forwarding equivalency classes (FECs) instead of implicit-null labels. This command controls the label value advertised to an egress router of an LSP. By default, implicit null label (label 3) is advertised for directly connected FECs. If implicit-null label is advertised, the penultimate hop removes the label and sends the packet as a plain IP packet to the egress router. The explicit-null command advertises label 0 and retains the label so the egress router can pop it. For details about usage of explicit-null, please refer to RFC 3032.Use the no parameter with this command to stop sending explicit-null labels for directly-connected FECs and resume sending implicit-null labels.

Attribute Name: enable-explicit-null

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
```

```
      </enable-explicit-null><!-- operation="delete"-->
   </config>
   </rsvp-instance>
   </rsvp-te>
```

Command Syntax

```
    explicit-null
```

Configure on boot adjust multiplier

Use this attribute to specify the adjust multiplier for an RSVP auto bandwidth on-boot profile

Attribute Name: on-boot-adjust-multiplier

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-10

Attribute Name: on-boot-sample-interval

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-10080

Attribute Name: on-boot-adjust-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 5-10080

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-instance>
   <config>
      <on-boot-sample-interval>1</on-boot-sample-interval> <!-- operation="delete"-->
      <on-boot-adjust-interval>5</on-boot-adjust-interval> <!-- operation="delete"-->
      <on-boot-adjust-multiplier>1</on-boot-adjust-multiplier> <!--
operation="delete"-->
   </config>
   </rsvp-instance>
   </rsvp-te>
```

Command Syntax

```
    auto-bandwidth-on-boot <1-10080> <5-10080> <1-10>
```

Configure rsvp

Use this attribute to enter router mode from configure mode and to enable the RSVP daemon, if it is not already enabled and Enter in to router rsvp mode from configure mode

Attribute Name: rsvp

Attribute Type: enum (rsvp)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   <rsvp>rsvp</rsvp>
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
router (rsvp)
```

Configure revert timer

Use this attribute to Hold-on timer before revert back to primary session

Attribute Name: revert-timer

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   <revert-timer>1</revert-timer> <!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
revert-timer <1-65535>
```

Configure session state timeout

Use this attribute to configure the maximum time a session can wait in a few transitory states for the acknowledgement or event to change the state. By default, the timeout value is 5 minutes. If no ack or event received within this period, session will timeout and proceed with release.

Attribute Name: session-state-timeout

Attribute Type: uint32

Default Value: 5

Attribute Range: 5-60

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
```

```
<rsvp-instance>
<config>
   <session-state-timeout>5</session-state-timeout> <!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
session-state-timeout <5-60>
```

Configure ingress

Use this attribute to specify a .from. IPv4 address for the RSVP daemon. This command can be invoked from either the router rsvp mode or from the rsvp-trunk mode. In the RSVP router mode, this command defines the source address as an IPv4 packet sent out by the RSVP daemon. In the RSVP trunk mode, this command indicates a sender.s address in the sender template object that is used in path messages.

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<config>
   <ingress>A.B.C.D</ingress> <!-- operation="delete"-->
</config>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
from A.B.C.D
```

Configure enable message ack

Use this attribute to enable message acknowledgement for all messages being sent to neighbors that are known to support refresh reduction.

Attribute Name: enable-message-ack

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<route-refresh>
<config>
   </enable-message-ack><!-- operation="delete"-->
</config>
</route-refresh>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
message-ack
```

Configure disable refresh reduction

Use this attribute to enable refresh reduction capability advertisement for all interfaces

Attribute Name: disable-refresh-reduction

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<route-refresh>
<config>
   </disable-refresh-reduction><!-- operation="delete"-->
</config>
</route-refresh>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
no refresh-reduction
```

Configure ack send timer

Use this attribute to configure the timer for sending acknowledgement for all RSVP-TE neighbors. By default, timer is disabled.

Attribute Name: ack-send-timer

Attribute Type: uint16

Attribute Range: 1-5

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<route-refresh>
<config>
   <ack-send-timer>1</ack-send-timer> <!-- operation="delete"-->
</config>
</route-refresh>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
ack-send-timer <1-5>
```

Configure ack wait timeout

Use this attribute to configure the acknowledgement wait timeout for all RSVP-TE neighbors

Attribute Name: ack-wait-timeout

Attribute Type: uint32

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<route-refresh>
<config>
   <ack-wait-timeout>1</ack-wait-timeout> <!-- operation="delete"-->
</config>
</route-refresh>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
ack-wait-timeout <1-65535>
```

Configure refresh time

Use this attribute to configure RSVP refresh interval timer. The timer specifies the interval after which Path and/ or Reservation Request (Resv) messages will be sent out.The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid Reservation Lifetime for an LSP. Refresh time regulates the interval between Refresh messages which include Path and Reservation Request (Resv) messages. Refresh messages are sent periodically so that reservation does not timeout in the neighboring nodes. Each sender and receiver host sends Path and Resv messages, downstream and upstream respectively, along the paths.

Attribute Name: refresh-time

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<route-refresh>
<config>
   <refresh-time>1</refresh-time> <!-- operation="delete"-->
</config>
</route-refresh>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
refresh-time <1-65535>
```

Configure keep multiplier

Use this attribute to configure the constant to be used to calculate a valid reservation lifetime for a Labeled Switched Path (LSP).The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid reservation lifetime for an LSP. The router sends refresh messages periodically so that the neighbors do not timeout

Attribute Name: keep-multiplier

Attribute Type: int32

Default Value: 3

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<route-refresh>
<config>
   <keep-multiplier>1</keep-multiplier> <!-- operation="delete"-->
</config>
</route-refresh>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
keep-multiplier <1-255>
```

Configure detour allow primary upstream path

Use this attribute to ensure detour formation allowed to consider upstream path of primary, a deviation to RFC 4090 section 6.2 recomendation. This attribute intended to be used on special case where detour protection required on ring topology with no additional alternate path available.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: detour-allow-primary-upstream-path

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<config>
   </detour-allow-primary-upstream-path><!-- operation="delete"-->
</config>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
detour-allow-primary-upstream-path
```

Configure default frr protection

Use this attribute to set default FRR protection mechanism to trigger when local protection requested by protection mechanism not mentioned via FRR object. When FRR object explicitly requests for the protection type, this attribute will not come into picture. Default will be one-to-one protection.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: default-frr-protection

Attribute Type: enum (one-to-one|facility)

Default Value: one-to-one

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<config>
   <default-frr-protection>one-to-one</default-frr-protection> <!--
operation="delete"-->
</config>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
default-frr-protection (one-to-one|facility)
```

Configure preemption type

Use this attribute to set preemption type for an LSP for the router. Preemption of an LSP or set of LSPs happens based on bandwidth constraints like preempting an LSP cause less number of LSPs be preempted upon satisfying the bandwidth required, preempting an LSP or set of LSPs which results in an LSP having less unused(remaining) bandwidth.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: preemption-type

Attribute Type: enum (less-lsp-preempted|less-unused-bandwidth)

Default Value: less-lsp-preempted

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<config>
   <preemption-type>less-lsp-preempted</preemption-type> <!-- operation="delete"-->
</config>
</fast-reroute>
```

```
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
preemption-type (less-lsp-preempted|less-unused-bandwidth)
```

Configure bypass lsp addr query interval

Modify interval of bypass trunk querying LSP address

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bypass-lsp-addr-query-interval

Attribute Type: uint8

Default Value: 60

Attribute Range: 10-60

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<config>
   <bypass-lsp-addr-query-interval>10</bypass-lsp-addr-query-interval> <!--
operation="delete"-->
</config>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
bypass-lsp-addr-query-interval <10-60>
```

Configure detour id

Use this attribute to set a path-specific detour LSP identification method, using the detour object.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: detour-id

Attribute Type: enum (sender-template|path)

Default Value: path

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<config>
   <detour-id>path</detour-id> <!-- operation="delete"-->
</config>
</fast-reroute>
```

```
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
detour-identification (sender-template|path)
```

Configure auto bypass

Auto bypass configuration

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: auto-bypass

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<config>
   </auto-bypass>
</config>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
auto-bypass
```

Configure enable

Use this attribute to enable automatic formation of bypass tunnels when facility backup protected sessions come up.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<config>
   </enable><!-- operation="delete"-->
</config>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
```

```
</rsvp-te>
```

Command Syntax

```
enable
```

Configure inactivity timer

Use this attribute to configure timer for auto bypass tunnel inactivity period post which stale auto bypass tunnels will be deleted.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: inactivity-timer

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-240

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<config>
   <inactivity-timer>1</inactivity-timer> <!-- operation="delete"-->
</config>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
inactivity-timer <1-240>
```

Configure type

Use this attribute to configure a set of attributes for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: type

Attribute Type: enum (best-effort)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute> <!-- operation="delete"-->
   <type>best-effort</type>
```

```
      <config>
         <type>best-effort</type>
      </config>
   </attribute>
   </attributes>
   </auto-bypass>
   </fast-reroute>
   </rsvp-instance>
   </rsvp-te>
```

Command Syntax

```
attributes (best-effort)
```

Configure protection capability

Use this attribute to configure the type of auto bypass tunnel allowed to create. Node option will ensure both link and node protection bypass tunnels created when there is demand and this option is enabled by default. Link option will restrict the bypass tunnel formation to link protection type even when there is demand.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: protection-capability

Attribute Type: enum (link|node)

Default Value: node

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute>
   <type>best-effort</type>
   <config>
      <type>best-effort</type>
   </config>
   <protection-capability>node</protection-capability> <!-- operation="delete"-->
</attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
protection-capability (link|node)
```

Configure bandwidth

Use this attribute to set the bandwidth requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute>
   <type>best-effort</type>
   <config>
      <type>best-effort</type>
   </config>
   <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
</attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
bandwidth BANDWIDTH
```

Configure setup priority

Use this attribute to configure the setup priority requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute>
   <type>best-effort</type>
   <config>
      <type>best-effort</type>
   </config>
   <setup-priority>0</setup-priority> <!-- operation="delete"-->
```

```
</attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
setup-priority <0-7>
```

Configure hold priority

Use this attribute to configure the hold priority requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute>
   <type>best-effort</type>
   <config>
      <type>best-effort</type>
   </config>
   <hold-priority>0</hold-priority> <!-- operation="delete"-->
</attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hold-priority <0-7>
```

Configure hop limit

Use this attribute to configure the hop limit requirement for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute>
   <type>best-effort</type>
   <config>
      <type>best-effort</type>
   </config>
   <hop-limit>1</hop-limit> <!-- operation="delete"-->
</attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
 hop-limit <1-255>
```

Configure reoptimize

Use this attribute to enable re-optimization for auto bypass LSPs.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: reoptimize

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute>
   <type>best-effort</type>
   <config>
      <type>best-effort</type>
   </config>
   </reoptimize><!-- operation="delete"-->
</attribute>
</attributes>
</auto-bypass>
```

```
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
reoptimize
```

Configure address

This attribute is used to configure auto bypass with exclude address criteria

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: exclude-type

Attribute Type: enum (link|node)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<fast-reroute>
<auto-bypass>
<attributes>
<attribute>
   <type>best-effort</type>
   <config>
      <type>best-effort</type>
   </config>
<exclude-addresses>
<exclude-address>
   <address>A.B.C.D</address>
   <config>
      <address>A.B.C.D</address>
      <exclude-type>link</exclude-type> <!-- operation="delete"-->
   </config>
</exclude-address>
</exclude-addresses>
</attribute>
</attributes>
</auto-bypass>
</fast-reroute>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
exclude-address (link|node) A.B.C.D
```

Configure disable cspf

Use this attribute to disable the use of the Constrained Shortest Path First (CSPF) server for all RSVP sessions.Disable CSPF when no nodes support the required traffic engineering extensions.When this command is executed in Router mode, CSPF is enabled for all configured RSVP sessions, and all RSVP sessions configured from this point forward. If the default CSPF per RSVP session is enabled, it will be disabled. The CSPF status for RSVP sessions can be verified using the show rsvp session command with the detail option

This command is supported when following feature are enabled CSPF feature

Attribute Name: disable-cspf

Attribute Type: uint8

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-instance>
   <cspf>
   <config>
      </disable-cspf><!-- operation="delete"-->
   </config>
   </cspf>
   </rsvp-instance>
   </rsvp-te>
```

Command Syntax

```
    no cspf
```

Configure cspf lsp reoptimization time

Use this attribute to configure timer for the reoptimizing lsp.

This command is supported when following feature are enabled CSPF feature

Attribute Name: cspf-lsp-reoptimization-time

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-240

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-instance>
   <cspf>
   <config>
      <cspf-lsp-reoptimization-time>1</cspf-lsp-reoptimization-time> <!--
operation="delete"-->
   </config>
   </cspf>
   </rsvp-instance>
   </rsvp-te>
```

Command Syntax

```
lsp-reoptimization-timer <1-240>
```

Configure enable hello receipt

Use this attribute to enable the receipt of Hello messages from peers.

Attribute Name: enable-hello-receipt

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<global>
<hellos>
<config>
   </enable-hello-receipt><!-- operation="delete"-->
</config>
</hellos>
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hello-receipt
```

Configure hello interval

Use this attribute to set an interval between Hello packets.Used as a global command, this value is over-ridden by the hello-interval set on the interface (see rsvp hello-interval).For optimum performance, set this value no more than one-third of the hello-timeout value.

Attribute Name: hello-interval

Attribute Type: int32

Default Value: 2

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<global>
<hellos>
<config>
   <hello-interval>1</hello-interval> <!-- operation="delete"-->
</config>
</hellos>
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hello-interval <1-65535>
```

Configure hello timeout

Timeout for clearing up all sessions shared with a neighbor.If an LSR has not received a Hello message from a peer within the number of seconds set with this command, all sessions shared with this peer are reset. The hello-timeout determines how long an RSVP node waits for a hello message before declaring a neighbor to be down.

Attribute Name: hello-timeout

Attribute Type: int32

Default Value: 7

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<global>
<hellos>
<config>
   <hello-timeout>1</hello-timeout> <!-- operation="delete"-->
</config>
</hellos>
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
hello-timeout <1-65535>
```

Configure enable graceful restart

Use this attribute to enable RSVP-TE Graceful Restart capability on a router. This is a global parameter. RSVP-TE determines whether or not to send the graceful restart capability object in its hello message. However, this capability also depends on support for graceful restart on the neighbor router.

This command is supported when following feature are enabled grst feature

Attribute Name: enable-graceful-restart

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<global>
<graceful-restart>
<config>
   </enable-graceful-restart>
</config>
</graceful-restart>
```

```
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
graceful-restart
```

Configure restart time

Use this attribute to set a restart time for an RSVP-TE graceful restart configuration.

This command is supported when following feature are enabled grst feature

Attribute Name: restart-time

Attribute Type: uint32

Default Value: 180000

Attribute Range: 10000-600000

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<global>
<graceful-restart>
<config>
   <restart-time>10000</restart-time> <!-- operation="delete"-->
</config>
</graceful-restart>
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
graceful-restart restart-time <10000-600000>
```

Configure recovery time

Use this attribute to set a recovery time for an RSVP-TE graceful restart configuration.

This command is supported when following feature are enabled grst feature

Attribute Name: recovery-time

Attribute Type: uint32

Default Value: 360000

Attribute Range: 60000-3600000

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<global>
<graceful-restart>
```

```
<config>
   <recovery-time>60000</recovery-time> <!-- operation="delete"-->
</config>
</graceful-restart>
</global>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
graceful-restart recovery-time <60000-3600000>
```

Configure srlg disjoint

Use the attribute to configure the srlg-disjoint path-protection in global mode

This command is supported when following feature are enabled Shared Risk Link Groups feature

Attribute Name: srlg-disjoint

Attribute Type: enum (forced|preferred)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<srlg>
<config>
   <srlg-disjoint>forced</srlg-disjoint> <!-- operation="delete"-->
</config>
</srlg>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
srlg-disjoint (forced|preferred)
```

Configure neighbors address

Directly connected neighbor

Attribute Name: address

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-instance>
<neighbors>
<neighbor> <!-- operation="delete"-->
   <address>CML_IP_ADDR_T</address>
   <config>
      <address>CML_IP_ADDR_T</address>
   </config>
```

```
</neighbor>
</neighbors>
</rsvp-instance>
</rsvp-te>
```

Command Syntax

```
neighbor (A.B.C.D|X:X::X:X)
```

clear rsvp statistics

Netconf RPC payload

```
<clear-rsvp-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp"/>
```

Command Syntax

```
clear rsvp statistics
```

snmp restart rsvp

Netconf RPC payload

```
<rsvp-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp"/>
```

Command Syntax

```
snmp restart rsvp
```

debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all)

Netconf RPC payload

```
<rsvp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<terminal-debug-options>events</terminal-debug-options>
</rsvp-terminal-debug-on>
```

Command Syntax

```
debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm
  transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm
  transit|all|)
```

no debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm transit|all)

Netconf RPC payload

```
<rsvp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<terminal-debug-options>events</terminal-debug-options>
</rsvp-terminal-debug-off>
```

Command Syntax

```
no debug rsvp (events|packet|packet in|packet out|hexdump|nsm|cspf|fsm egress|fsm
  transit downstream|fsm transit upstream|fsm ingress|rib|neighbor|autobw|fsm|fsm
  transit|all|)
```

restart rsvp graceful

Netconf RPC payload

```
<restart-rsvp-graceful xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp"/>
```

Command Syntax

```
restart rsvp graceful
```

IPI-RSVP-TRUNK

Configure path name

Use this attribute to configure the path

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: path-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: path-type

Attribute Type: enum (mpls)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-paths>
<rsvp-path>
   <path-name>PATHNAME</path-name>
   <config>
```

```
        <path-name>PATHNAME</path-name>
        <path-type>mpls</path-type>
    </config>
</rsvp-path>
</rsvp-paths>
</rsvp-te>
```

Command Syntax

```
rsvp-path PATHNAME (mpls|)
```

Configure description

Use this attribute to add description for rsvp path

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-paths>
<rsvp-path>
    <path-name>PATHNAME</path-name>
    <config>
        <path-name>PATHNAME</path-name>
    </config>
        <description>LINE</description> <!-- operation="delete"-->
</rsvp-path>
</rsvp-paths>
</rsvp-te>
```

Command Syntax

```
description LINE
```

Configure hop address

Use this attribute to define an explicit IPv4 or IPv6 route sub-object as either loose or strict hop. A list of sub-objects specifies an explicit route to the egress router for an LSP

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: hop-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-paths>
<rsvp-path>
    <path-name>PATHNAME</path-name>
```

```
    <config>
       <path-name>PATHNAME</path-name>
    </config>
    <explicit-route-object>
    <mpls-hops>
    <mpls-hop> <!-- operation="delete"-->
       <hop-type>loose</hop-type>
       <config>
          <hop-type>loose</hop-type>
          <hop-address>A.B.C.D</hop-address>
       </config>
          <hop-address>A.B.C.D</hop-address>
    </mpls-hop>
</mpls-hops>
</explicit-route-object>
</rsvp-path>
</rsvp-paths>
</rsvp-te>
```

Command Syntax

```
A.B.C.D (loose|strict)
```

Configure multipath name

Use this attribute to create the multipath group name

This command is supported when following feature are enabled RSVP multipath feature

Attribute Name: multipath-name

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<multipaths>
<multipath>
   <multipath-name>GROUPNAME</multipath-name>
   <config>
      <multipath-name>GROUPNAME</multipath-name>
   </config>
</multipath>
</multipaths>
</rsvp-te>
```

Command Syntax

```
rsvp-multipath GROUPNAME
```

Configure multipath description

Use this attribute to add description for multipath group

This command is supported when following feature are enabled RSVP multipath feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<multipaths>
<multipath>
   <multipath-name>GROUPNAME</multipath-name>
   <config>
      <multipath-name>GROUPNAME</multipath-name>
   </config>
      <description>LINE</description> <!-- operation="delete"-->
</multipath>
</multipaths>
</rsvp-te>
```

Command Syntax

```
 description LINE
```

Configure destination

Use this attribute to add destination prefix for multipath group

This command is supported when following feature are enabled RSVP multipath feature

Attribute Name: destination

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<multipaths>
<multipath>
   <multipath-name>GROUPNAME</multipath-name>
   <config>
      <multipath-name>GROUPNAME</multipath-name>
   </config>
      <destination>A.B.C.D</destination> <!-- operation="delete"-->
</multipath>
</multipaths>
</rsvp-te>
```

Command Syntax

```
 to A.B.C.D
```

Configure bypass name

rsvp trunk bypass name

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bypass-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
rsvp-bypass BYPASSNAME
```

Configure ingress

Use this attribute to specify a from IPv4 address for the RSVP daemon. In the RSVP trunk mode, this command indicates a sender's address in the sender template object that is used in path messages.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
      <ingress>A.B.C.D</ingress> <!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
from A.B.C.D
```

Configure egress

Use this attribute to specify an IPv4 egress for an LSP. When configuring an LSP, you must specify the address of the egress router by using this command in the trunk node. An egress definition is a mandatory attribute; no RSVP session is created when an egress is not defined.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: egress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
      <egress>A.B.C.D</egress> <!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 to A.B.C.D
```

Configure ext tunnel id

Use this attribute to configure an extended-tunnel identifier as an IPv4/IPv6 address. These identifiers are used in RSVP messages. If no extended-tunnel ID is specified, the LSR-ID for the router is used as the extended-tunnel ID for all LSPs. The extended-tunnel ID is a simple way of identifying all LSPs belonging to the same trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: ext-tunnel-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
      <ext-tunnel-id>A.B.C.D</ext-tunnel-id> <!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
```

```
</trunks>
</rsvp-te>
```

Command Syntax

```
ext-tunnel-id A.B.C.D
```

Configure update type

Use this attribute to change the method of updating attributes for sessions (primary/ secondary) for this trunk as either make-before-break (default) or break-before-make

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: update-type

Attribute Type: enum (break-before-make|make-before-break)

Default Value: make-before-break

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
      <update-type>make-before-break</update-type> <!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
update-type (break-before-make|make-before-break)
```

Configure bypass-trunk description

Use this attribute to add description for rsvp tunnel

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
```

```
    <bypass-name>BYPASSNAME</bypass-name>
    <config>
        <bypass-name>BYPASSNAME</bypass-name>
    </config>
        <description>LINE</description> <!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 description LINE
```

Configure enable reoptimize

Use this attribute to enable the reoptimization for the RSVP tunnel

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-reoptimize

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
    <bypass-name>BYPASSNAME</bypass-name>
    <config>
        <bypass-name>BYPASSNAME</bypass-name>
    </config>
        </enable-reoptimize><!-- operation="delete"-->
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 reoptimize
```

Configure shutdown

Use this attribute to administratively shutdown the RSVP tunnel

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
```

```
   <trunks>
   <bypass-trunks>
   <bypass-trunk>
      <bypass-name>BYPASSNAME</bypass-name>
      <config>
         <bypass-name>BYPASSNAME</bypass-name>
      </config>
         </shutdown><!-- operation="delete"-->
   </bypass-trunk>
   </bypass-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    shutdown
```

Configure backup bandwidth type

rsvp bypass trunk backup bandwidth type

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: backup-bandwidth-type

Attribute Type: enum (best-effort|dedicated)

Default Value: best-effort

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <bypass-trunks>
   <bypass-trunk>
      <bypass-name>BYPASSNAME</bypass-name>
      <config>
         <bypass-name>BYPASSNAME</bypass-name>
      </config>
         <backup-bandwidth-type>best-effort</backup-bandwidth-type> <!--
operation="delete"-->
   </bypass-trunk>
   </bypass-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    backup-bw-type (best-effort|dedicated)
```

Configure disable route record

Use this attribute to enable recording of the route taken by Path and Reservation Request (Resv) messages. These messages confirm the establishment of reservations and also identifies errors. Routes are recorded by means of the Route Record Object (RRO) in the RSVP message.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: disable-route-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <config>
          </disable-route-record><!-- operation="delete"-->
   </config>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 no record
```

Configure enable reuse route record

Use this attribute to use the updated Route Record List as an Explicit Route (with all strict nodes) when a path message is sent out at the next refresh.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-reuse-route-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <config>
          </enable-reuse-route-record><!-- operation="delete"-->
   </config>
</session>
```

```
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
reuse-route-record
```

Configure traffic type

Use this attribute to identify the traffic type for this RSVP Trunk/bypss/P2MP LSP’s

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: traffic-type

Attribute Type: enum (controlled-load|guaranteed)

Default Value: controlled-load

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <config>
         <traffic-type>controlled-load</traffic-type> <!-- operation="delete"-->
   </config>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
traffic (controlled-load|guaranteed)
```

Configure retry count

Use this attribute to specify a retry count for an RSVP Trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <config>
         <retry-count>1</retry-count> <!-- operation="delete"-->
   </config>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
retry-limit <1-65535>
```

Configure retry interval

Use this attribute to specify a retry interval for an RSVP Trunk. When an ingress node tries to configure an LSP and the setup fails due to the receipt of a Path Error message, the system waits for the time configured with this command, before retrying the LSP setup process

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <config>
         <retry-interval>1</retry-interval> <!-- operation="delete"-->
   </config>
</session>
</bypass-trunk>
```

```
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
retry-timer <1-600>
```

Configure cspf retry count

Use this attribute to specify the number of retries that CSPF should carry out for a request received from RSVP.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: cspf-retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <config>
         <cspf-retry-count>1</cspf-retry-count> <!-- operation="delete"-->
   </config>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
cspf-retry-limit <1-65535>
```

Configure cspf retry interval

Use this attribute to specify the time between each retry that CSPF might carry out for a request received from RSVP.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: cspf-retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <config>
          <cspf-retry-interval>1</cspf-retry-interval> <!-- operation="delete"-->
   </config>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 cspf-retry-timer <1-600>
```

Configure exclude addr

Use this attribute to exclude an address link or address node from the LSP creation of the Bypass Tunnel.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: exclude-addr

Attribute Type: inet:ipv4-address

Attribute Name: exclude-type

Attribute Type: enum (link|node)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <exclude-path>
   <config>
          <exclude-type>node</exclude-type>
          <exclude-addr>A.B.C.D</exclude-addr>
   </config>
</exclude-path>
</session>
```

```
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
exclude-address (link|node) A.B.C.D
```

Configure path-state-block path-name

Use this attribute to specify an RSVP path to be used.The PATHNAME in this command is the string (name) used to identify an RSVP path defined for the node

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: path-name

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <path-state-block>
   <config>
          <path-name>PATHNAME</path-name> <!-- operation="delete"-->
   </config>
</path-state-block>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
path PATHNAME
```

Configure enable label record

Use this attribute to record all labels exchanged between RSVP-enabled routers during the reservation setup process

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-label-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <path-state-block>
   <session-attributes>
   <config>
          </enable-label-record><!-- operation="delete"-->
   </config>
</session-attributes>
</path-state-block>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
label-record
```

Configure hold priority

Use this attribute to configure the hold priority value for the selected trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <path-state-block>
   <session-attributes>
   <config>
```

```
            <hold-priority>0</hold-priority> <!-- operation="delete"-->
      </config>
   </session-attributes>
   </path-state-block>
   </session>
   </bypass-trunk>
   </bypass-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
hold-priority <0-7>
```

Configure setup priority

Use this attribute to configure the setup priority value for the selected trunk

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <bypass-trunks>
   <bypass-trunk>
      <bypass-name>BYPASSNAME</bypass-name>
      <config>
         <bypass-name>BYPASSNAME</bypass-name>
      </config>
      <session>
      <path-state-block>
      <session-attributes>
      <config>
            <setup-priority>0</setup-priority> <!-- operation="delete"-->
      </config>
   </session-attributes>
   </path-state-block>
   </session>
   </bypass-trunk>
   </bypass-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
setup-priority <0-7>
```

Configure hop limit

Use this attribute to specify a limit of hops for an RSVP trunk. Hop-limit data is sent to the CSPF server if CSPF is used.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <path-state-block>
   <session-attributes>
   <config>
         <hop-limit>1</hop-limit> <!-- operation="delete"-->
   </config>
</session-attributes>
</path-state-block>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 hop-limit <1-255>
```

Configure filter type

Use this attribute to set the filter to fixed or shared filter style for RSVP trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: filter-type

Attribute Type: enum (fixed|shared-explicit)

Default Value: shared-explicit

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
```

```
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <path-state-block>
   <session-attributes>
   <config>
         <filter-type>shared-explicit</filter-type> <!-- operation="delete"-->
   </config>
</session-attributes>
</path-state-block>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 filter (fixed)
```

Configure bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <path-state-block>
   <session-attributes>
   <config>
         <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
   </config>
</session-attributes>
</path-state-block>
</session>
</bypass-trunk>
```

```
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
bandwidth BANDWIDTH
```

Configure dscp exp map exp val

rsvp trunk dsinfo exp val

This command is supported when following feature are enabled MPLS-FRR feature,diffserv feature

Attribute Name: dscp-exp-map-exp-val

Attribute Type: int32

Attribute Range: 0-7

Attribute Name: dscp-exp-map-class-name

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<bypass-trunks>
<bypass-trunk>
   <bypass-name>BYPASSNAME</bypass-name>
   <config>
      <bypass-name>BYPASSNAME</bypass-name>
   </config>
   <session>
   <diff-serv-info>
   <dscp-exp-maps>
   <dscp-exp-map>
      <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
      <config>
         <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
         <dscp-exp-map-class-name>CLASS</dscp-exp-map-class-name>
      </config>
   </dscp-exp-map>
</dscp-exp-maps>
</diff-serv-info>
</session>
</bypass-trunk>
</bypass-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
class-to-exp-bit CLASS <0-7>
```

Configure trunk name

rsvp trunk name

Attribute Name: trunk-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: trunk-family

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
        <trunk-family>ipv4</trunk-family>
    </config>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 rsvp-trunk TRUNKNAME (ipv4|)
```

Configure ingress-trunk ingress

Use this attribute to specify a from IPv4 address for the RSVP daemon. In the RSVP trunk mode, this command indicates a sender’s address in the sender template object that is used in path messages.

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
        <ingress>A.B.C.D</ingress> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
```

```
</rsvp-te>
```

Command Syntax

```
from A.B.C.D
```

Configure ingress-trunk egress

Use this attribute to specify an IPv4 egress for an LSP. When configuring an LSP, you must specify the address of the egress router by using this command in the trunk node. An egress definition is a mandatory attribute; no RSVP session is created when an egress is not defined.

Attribute Name: egress

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
      <egress>A.B.C.D</egress> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
to A.B.C.D
```

Configure ingress-trunk ext-tunnel-id

Use this attribute to configure an extended-tunnel identifier as an IPv4/IPv6 address. These identifiers are used in RSVP messages. If no extended-tunnel ID is specified, the LSR-ID for the router is used as the extended-tunnel ID for all LSPs. The extended-tunnel ID is a simple way of identifying all LSPs belonging to the same trunk.

Attribute Name: ext-tunnel-id

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
```

```
        <ext-tunnel-id>A.B.C.D</ext-tunnel-id> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
ext-tunnel-id A.B.C.D
```

Configure ingress-trunk update-type

Use this attribute to change the method of updating attributes for sessions (primary/ secondary) for this trunk as either make-before-break (default) or break-before-make

Attribute Name: update-type

Attribute Type: enum (break-before-make|make-before-break)

Default Value: make-before-break

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
        <update-type>make-before-break</update-type> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
update-type (break-before-make|make-before-break)
```

Configure ingress-trunk description

Use this attribute to add description for rsvp tunnel

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
```

```
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
       <trunk-name>TRUNKNAME</trunk-name>
    </config>
       <description>LINE</description> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 description LINE
```

Configure ingress-trunk enable-reoptimize

Use this attribute to enable the reoptimization for the RSVP tunnel

Attribute Name: enable-reoptimize

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
       <trunk-name>TRUNKNAME</trunk-name>
    </config>
       </enable-reoptimize><!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 reoptimize
```

Configure ingress-trunk shutdown

Use this attribute to administratively shutdown the RSVP tunnel

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
```

```
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
        </shutdown><!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
shutdown
```

Configure multipath group

Use this attribute to configure a multipath group name for the RSVP Trunk

Attribute Name: multipath-group

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
        <multipath-group>GROUPNAME</multipath-group> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
multipath-group GROUPNAME
```

Configure absolute metric

Use this attribute to set LSP absolute metric metric for IGP Shortcut use

Attribute Name: absolute-metric

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
```

```
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
      <absolute-metric>1</absolute-metric> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
lsp-metric absolute <1-65535>
```

Configure relative metric

Use this attribute to set LSP relative metric metric for IGP Shortcut use

Attribute Name: relative-metric

Attribute Type: int32

Attribute Range: -65535-0,1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
      <relative-metric>-65535</relative-metric> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
lsp-metric relative (<-65535-0>|<1-65535>)
```

Configure revert timer

Use this attribute configure the Hold-on timer before revert back to RSVP session

Attribute Name: revert-timer

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
      <revert-timer>1</revert-timer> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
revert-timer <1-65535>
```

Configure auto bandwidth

Use this attribute to configure a RSVP auto bandwidth profile to this RSVP Trunk

Attribute Name: auto-bandwidth

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
      <auto-bandwidth>PROFILENAME</auto-bandwidth> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
auto-bandwidth PROFILENAME
```

Configure ldp tunneling

Use this attribute to enable LDP tunneling for a TE tunnel

Attribute Name: ldp-tunneling

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
      </ldp-tunneling><!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
ldp-tunneling
```

Configure trunk color

Use this attribute to configure color for RSVP Trunk

Attribute Name: trunk-color

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
      <trunk-color>1</trunk-color> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
trunk-color-code <1-4294967295>
```

Configure bsid value

Use this attribute to configure static binding segment identifier value

Attribute Name: bsid-value

Attribute Type: uint32

Attribute Range: 16-15999

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
        <bsid-value>16</bsid-value> <!-- operation="delete"-->
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 binding-sid mpls label <16-15999>
```

Configure path option dynamic

Use the attribute to enable Tunnel to get ERO from Path Computation Element

This command is supported when following feature are enabled gmpls feature

Attribute Name: path-option-dynamic

Attribute Type: enum (pce)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <path-computation-element>
    <config>
           <path-option-dynamic>pce</path-option-dynamic> <!-- operation="delete"-->
    </config>
</path-computation-element>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
path-option dynamic (pce)
```

Configure pce entity identifier

Use this attribute to assign PCE Entity ID for the tunnel

This command is supported when following feature are enabled gmpls feature

Attribute Name: pce-entity-identifier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <path-computation-element>
      <config>
            <pce-entity-identifier>1</pce-entity-identifier> <!-- operation="delete"-
->
      </config>
   </path-computation-element>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
pce entity <1-255>
```

Configure pce state report

Use this attribute to enable or disable lsp state report to PCE

This command is supported when following feature are enabled gmpls feature

Attribute Name: pce-state-report

Attribute Type: empty

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
```

```
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <path-computation-element>
      <config>
            </pce-state-report><!-- operation="delete"-->
      </config>
   </path-computation-element>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
pce state-report
```

Configure pce lsp delegate

Use this attribute to enable or disable lsp delegation to PCE

This command is supported when following feature are enabled gmpls feature

Attribute Name: pce-lsp-delegate

Attribute Type: empty

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <path-computation-element>
      <config>
            </pce-lsp-delegate><!-- operation="delete"-->
      </config>
   </path-computation-element>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
pce lsp-delegate
```

Configure address

rsvp trunk ipv4 map route address

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <mapped-ip-routes>
   <mapped-ip-route>
      <address>A.B.C.D/M</address>
      <config>
         <address>A.B.C.D/M|A.B.C.D A.B.C.D</address>
      </config>
   </mapped-ip-route>
</mapped-ip-routes>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 map-route (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure priority value

Use this attribute to configure the secondary label record for the RSVP Trunk.

Attribute Name: enable-label-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <secondary-priorities>
   <secondary-priority>
      <priority-value>1</priority-value>
      <config>
         <priority-value>1</priority-value>
      </config>
```

```
            </enable-label-record><!-- operation="delete"-->
      </secondary-priority>
   </secondary-priorities>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
secondary-priority <1-5> label-record
```

Configure priority path

Use this attribute to configure the secondary priority path for the RSVP Trunk.

Attribute Name: priority-path

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <secondary-priorities>
   <secondary-priority>
      <priority-value>1</priority-value>
      <config>
         <priority-value>1</priority-value>
      </config>
         <priority-path>PATHNAME</priority-path> <!-- operation="delete"-->
   </secondary-priority>
</secondary-priorities>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
secondary-priority <1-5> path PATHNAME
```

Configure secondary priority srlg disjoint

Use this attribute to configure the SRLG disjoint path for the RSVP Trunk.

Attribute Name: secondary-priority-srlg-disjoint

Attribute Type: enum (forced|preferred)

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <secondary-priorities>
      <secondary-priority>
         <priority-value>1</priority-value>
         <config>
            <priority-value>1</priority-value>
         </config>
            <secondary-priority-srlg-disjoint>forced</secondary-priority-srlg-
disjoint> <!-- operation="delete"-->
      </secondary-priority>
   </secondary-priorities>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    secondary-priority <1-5> srlg-disjoint (forced|preferred)
```

Configure secondary-priority hold-priority

Use this attribute to configure the secondary hold priority for the RSVP Trunk.

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <secondary-priorities>
      <secondary-priority>
         <priority-value>1</priority-value>
         <config>
```

```
            <priority-value>1</priority-value>
         </config>
            <hold-priority>0</hold-priority> <!-- operation="delete"-->
      </secondary-priority>
   </secondary-priorities>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
secondary-priority <1-5> hold-priority <0-7>
```

Configure secondary-priority setup-priority

Use this attribute to configure the secondary setup priority for the RSVP Trunk.

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <secondary-priorities>
      <secondary-priority>
         <priority-value>1</priority-value>
         <config>
            <priority-value>1</priority-value>
         </config>
            <setup-priority>0</setup-priority> <!-- operation="delete"-->
      </secondary-priority>
   </secondary-priorities>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
secondary-priority <1-5> setup-priority <0-7>
```

Configure secondary-priority hop-limit

Use this attribute to configure the secondary hop limit for the RSVP Trunk.

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <secondary-priorities>
   <secondary-priority>
      <priority-value>1</priority-value>
      <config>
         <priority-value>1</priority-value>
      </config>
         <hop-limit>1</hop-limit> <!-- operation="delete"-->
   </secondary-priority>
</secondary-priorities>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
 secondary-priority <1-5> hop-limit <1-255>
```

Configure secondary-priority bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
```

```
        <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <secondary-priorities>
      <secondary-priority>
         <priority-value>1</priority-value>
         <config>
            <priority-value>1</priority-value>
         </config>
            <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
      </secondary-priority>
   </secondary-priorities>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
secondary-priority <1-5> bandwidth BANDWIDTH
```

Configure trunk session type

rsvp trunk session type

Attribute Name: trunk-session-type

Attribute Type: enum (secondary|primary)

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session> <!-- operation="delete"-->
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
      </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
(secondary|primary)
```

Configure srlg disjoint secondary

Use this attribute to enable secondary srlg disjoint

Attribute Name: srlg-disjoint-secondary

Attribute Type: enum (forced|preferred)

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
            <srlg-disjoint-secondary>forced</srlg-disjoint-secondary> <!--
operation="delete"-->
      </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    (secondary) srlg-disjoint (forced|preferred)
```

Configure session disable-route-record

Use this attribute to enable recording of the route taken by Path and Reservation Request (Resv) messages. These messages confirm the establishment of reservations and also identifies errors. Routes are recorded by means of the Route Record Object (RRO) in the RSVP message.

Attribute Name: disable-route-record

Attribute Type: uint8

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
```

```
        <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
          <trunk-session-type>secondary</trunk-session-type>
        </config>
          </disable-route-record><!-- operation="delete"-->
      </session>
  </sessions>
  </ingress-trunk>
  </ingress-trunks>
  </trunks>
  </rsvp-te>
```

Command Syntax

```
no (secondary|primary) record
```

Configure disable affinity

Use this attribute to enable sending of session attribute objects with resource affinity data.

Attribute Name: disable-affinity

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
         </disable-affinity><!-- operation="delete"-->
   </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
no (secondary|primary) affinity
```

Configure session enable-reuse-route-record

Use this attribute to use the updated Route Record List as an Explicit Route (with all strict nodes) when a path message is sent out at the next refresh.

Attribute Name: enable-reuse-route-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
         </enable-reuse-route-record><!-- operation="delete"-->
   </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) reuse-route-record
```

Configure disable cspf

Use this attribute to enable the use of Constrained Shortest Path First (CSPF) server for an explicit route to the egress, or all RSVP sessions. When CSPF is turned off globally, it cannot be enabled for any LSP.

Attribute Name: disable-cspf

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
```

```
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
       <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
       <trunk-session-type>secondary</trunk-session-type>
       <config>
          <trunk-session-type>secondary</trunk-session-type>
       </config>
          </disable-cspf><!-- operation="delete"-->
    </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
no (secondary|primary) cspf
```

Configure session traffic-type

Use this attribute to identify the traffic type for this RSVP Trunk/bypss/P2MP LSP’s

Attribute Name: traffic-type

Attribute Type: enum (controlled-load|guaranteed)

Default Value: controlled-load

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
       <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
       <trunk-session-type>secondary</trunk-session-type>
       <config>
          <trunk-session-type>secondary</trunk-session-type>
       </config>
          <traffic-type>controlled-load</traffic-type> <!-- operation="delete"-->
    </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
```

```
</rsvp-te>
```

Command Syntax

```
(secondary|primary) traffic (controlled-load|guaranteed)
```

Configure session retry-count

Use this attribute to specify a retry count for an RSVP Trunk.

Attribute Name: retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
         <retry-count>1</retry-count> <!-- operation="delete"-->
   </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) retry-limit <1-65535>
```

Configure session retry-interval

Use this attribute to specify a retry interval for an RSVP Trunk. When an ingress node tries to configure an LSP and the setup fails due to the receipt of a Path Error message, the system waits for the time configured with this command, before retrying the LSP setup process

Attribute Name: retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
         <retry-interval>1</retry-interval> <!-- operation="delete"-->
   </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) retry-timer <1-600>
```

Configure session cspf-retry-count

Use this attribute to specify the number of retries that CSPF should carry out for a request received from RSVP.

Attribute Name: cspf-retry-count

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
```

```
            <cspf-retry-count>1</cspf-retry-count> <!-- operation="delete"-->
      </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
(secondary|primary) cspf-retry-limit <1-65535>
```

Configure session cspf-retry-interval

Use this attribute to specify the time between each retry that CSPF might carry out for a request received from RSVP.

Attribute Name: cspf-retry-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-600

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
         <cspf-retry-interval>1</cspf-retry-interval> <!-- operation="delete"-->
   </session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) cspf-retry-timer <1-600>
```

Configure enable node protection

Use this attribute to configure fast-reroute node-protection

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: enable-node-protection

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <fast-reroute>
        <config>
               </enable-node-protection><!-- operation="delete"-->
        </config>
    </fast-reroute>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute node-protection
```

Configure protection

Use this attribute to create an Fast Reroute backup and to set an LSP one-to-one protection mechanism. This command can also be used to create an FRR Facility (Bypass) backup and assign a Facility Backup (Bypass Tunnel) available to the protected LSP.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: protection

Attribute Type: enum (one-to-one|facility)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
```

```
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
       <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
       <trunk-session-type>secondary</trunk-session-type>
       <config>
          <trunk-session-type>secondary</trunk-session-type>
       </config>
       <fast-reroute>
       <config>
              <protection>one-to-one</protection> <!-- operation="delete"-->
       </config>
    </fast-reroute>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute protection (one-to-one|facility)
```

Configure frr hold priority

Use this attribute to configure the hold priority value for the selected trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: frr-hold-priority

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
       <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
       <trunk-session-type>secondary</trunk-session-type>
       <config>
          <trunk-session-type>secondary</trunk-session-type>
```

```
        </config>
        <fast-reroute>
        <config>
               <frr-hold-priority>0</frr-hold-priority> <!-- operation="delete"-->
        </config>
    </fast-reroute>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute hold-priority <0-7>
```

Configure frr setup priority

Use this attribute to configure the setup priority value for the selected trunk

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: frr-setup-priority

Attribute Type: uint32

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <fast-reroute>
        <config>
               <frr-setup-priority>0</frr-setup-priority> <!-- operation="delete"-->
        </config>
    </fast-reroute>
</session>
</sessions>
</ingress-trunk>
```

```
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute setup-priority <0-7>
```

Configure frr hop limit

Use this attribute to specify a limit of hops for an RSVP trunk. Hop-limit data is sent to the CSPF server if CSPF is used.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: frr-hop-limit

Attribute Type: uint32

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
      <fast-reroute>
      <config>
            <frr-hop-limit>1</frr-hop-limit> <!-- operation="delete"-->
      </config>
   </fast-reroute>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute hop-limit <1-255>
```

Configure fast reroute bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: fast-reroute-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
         <fast-reroute>
         <config>
               <fast-reroute-bandwidth>BANDWIDTH</fast-reroute-bandwidth> <!--
operation="delete"-->
         </config>
      </fast-reroute>
   </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    (primary) fast-reroute bandwidth BANDWIDTH
```

Configure admin group name

rsvp admin group name

This command is supported when following feature are enabled MPLS-FRR feature

Attribute Name: admin-group-name

Attribute Type: string

Attribute Name: admin-group-type

Attribute Type: enum (exclude-any|include-any)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>primary</trunk-session-type>
      <config>
         <trunk-session-type>primary</trunk-session-type>
      </config>
      <fast-reroute>
      <frr-admin-groups>
      <frr-admin-group>
         <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
         <config>
            <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
            <admin-group-type>exclude-any</admin-group-type>
         </config>
      </frr-admin-group>
   </frr-admin-groups>
</fast-reroute>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(primary) fast-reroute (exclude-any|include-any) ADMIN-GROUP-NAME
```

Configure name

rsvp admin group name

This command is supported when following feature are enabled TE feature

Attribute Name: name

Attribute Type: string

Attribute Name: type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
```

```
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
      <admin-groups>
      <admin-group>
         <name>ADMIN-GROUP-NAME</name>
         <config>
            <name>ADMIN-GROUP-NAME</name>
            <type>exclude-any</type>
         </config>
      </admin-group>
   </admin-groups>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) (exclude-any|include-any|include-all) ADMIN-GROUP-NAME
```

Configure path-state-block path-name

Use this attribute to configure the path

Attribute Name: path-name

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
```

```
        <config>
           <trunk-session-type>secondary</trunk-session-type>
        </config>
        <path-state-block>
        <config>
               <path-name>PATHNAME</path-name> <!-- operation="delete"-->
        </config>
    </path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) path PATHNAME
```

Configure session-attributes enable-label-record

Use this attribute to record all labels exchanged between RSVP-enabled routers during the reservation setup process

Attribute Name: enable-label-record

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
      <path-state-block>
      <session-attributes>
      <config>
             </enable-label-record><!-- operation="delete"-->
      </config>
   </session-attributes>
</path-state-block>
</session>
</sessions>
</ingress-trunk>
```

```
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) label-record
```

Configure session-attributes hold-priority

Use this attribute to configure the hold priority value for the selected trunk.

Attribute Name: hold-priority

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <path-state-block>
        <session-attributes>
        <config>
               <hold-priority>0</hold-priority> <!-- operation="delete"-->
        </config>
    </session-attributes>
</path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) hold-priority <0-7>
```

Configure session-attributes setup-priority

Use this attribute to configure the setup priority value for the selected trunk

Attribute Name: setup-priority

Attribute Type: uint8

Default Value: 7

Attribute Range: 0-7

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <path-state-block>
        <session-attributes>
        <config>
               <setup-priority>0</setup-priority> <!-- operation="delete"-->
        </config>
    </session-attributes>
</path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) setup-priority <0-7>
```

Configure session-attributes hop-limit

Use this attribute to specify a limit of hops for an RSVP trunk. Hop-limit data is sent to the CSPF server if CSPF is used.

Attribute Name: hop-limit

Attribute Type: uint16

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
      <path-state-block>
      <session-attributes>
      <config>
            <hop-limit>1</hop-limit> <!-- operation="delete"-->
      </config>
   </session-attributes>
</path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) hop-limit <1-255>
```

Configure session-attributes filter-type

Use this attribute to set the filter to fixed or shared filter style for RSVP trunk.

Attribute Name: filter-type

Attribute Type: enum (fixed|shared-explicit)

Default Value: shared-explicit

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
```

```
    <sessions>
    <session>
       <trunk-session-type>secondary</trunk-session-type>
       <config>
          <trunk-session-type>secondary</trunk-session-type>
       </config>
       <path-state-block>
       <session-attributes>
       <config>
              <filter-type>shared-explicit</filter-type> <!-- operation="delete"-->
       </config>
    </session-attributes>
</path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) filter (fixed)
```

Configure session-attributes bandwidth

Use this attribute to reserve the primary/secondary bandwidth in bits per second for the current trunk.

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
       <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
       <trunk-session-type>secondary</trunk-session-type>
       <config>
          <trunk-session-type>secondary</trunk-session-type>
       </config>
       <path-state-block>
       <session-attributes>
       <config>
              <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
       </config>
```

```
    </session-attributes>
</path-state-block>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) bandwidth BANDWIDTH
```

Configure dscp exp map class name

rsvp trunk dsinfo exp val

This command is supported when following feature are enabled diffserv feature

Attribute Name: dscp-exp-map-exp-val

Attribute Type: int32

Attribute Range: 0-7

Attribute Name: dscp-exp-map-class-name

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <diff-serv-info>
        <dscp-exp-maps>
        <dscp-exp-map>
            <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
            <config>
                <dscp-exp-map-exp-val>0</dscp-exp-map-exp-val>
                <dscp-exp-map-class-name>CLASS</dscp-exp-map-class-name>
            </config>
        </dscp-exp-map>
    </dscp-exp-maps>
</diff-serv-info>
```

```
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) class-to-exp-bit CLASS <0-7>
```

Configure elsp signal

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface.

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal

Attribute Type: empty

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
   <trunk-name>TRUNKNAME</trunk-name>
   <config>
      <trunk-name>TRUNKNAME</trunk-name>
   </config>
   <sessions>
   <session>
      <trunk-session-type>secondary</trunk-session-type>
      <config>
         <trunk-session-type>secondary</trunk-session-type>
      </config>
      <diff-serv-info>
      <elsp-class>
      <config>
             </elsp-signal><!-- operation="delete"-->
      </config>
   </elsp-class>
</diff-serv-info>
</session>
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) elsp-signaled
```

Configure elsp signal class1

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class1

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
       <trunk-name>TRUNKNAME</trunk-name>
       <config>
           <trunk-name>TRUNKNAME</trunk-name>
       </config>
       <sessions>
       <session>
           <trunk-session-type>secondary</trunk-session-type>
           <config>
              <trunk-session-type>secondary</trunk-session-type>
           </config>
           <diff-serv-info>
           <elsp-class>
           <config>
                  </elsp-signal><!-- operation="delete"-->
                  <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
           </config>
       </elsp-class>
   </diff-serv-info>
   </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    (secondary|primary) elsp-signaled CLASS1
```

Configure elsp signal class2

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class2

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
         <diff-serv-info>
         <elsp-class>
         <config>
                </elsp-signal><!-- operation="delete"-->
                <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
         </config>
      </elsp-class>
   </diff-serv-info>
   </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    (secondary|primary) elsp-signaled CLASS1 CLASS2
```

Configure elsp signal class3

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class3

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
         <diff-serv-info>
         <elsp-class>
         <config>
                </elsp-signal><!-- operation="delete"-->
                <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
          </config>
       </elsp-class>
   </diff-serv-info>
   </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    (secondary|primary) elsp-signaled CLASS1 CLASS2 CLASS3
```

Configure elsp signal class4

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class4

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class4

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
         <diff-serv-info>
         <elsp-class>
         <config>
                </elsp-signal><!-- operation="delete"-->
                <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
         </config>
      </elsp-class>
   </diff-serv-info>
   </session>
```

```
</sessions>
</ingress-trunk>
</ingress-trunks>
</trunks>
</rsvp-te>
```

Command Syntax

```
(secondary|primary) elsp-signaled CLASS1 CLASS2 CLASS3 CLASS4
```

Configure elsp signal class5

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class5

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class5

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal-class4

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<trunks>
<ingress-trunks>
<ingress-trunk>
    <trunk-name>TRUNKNAME</trunk-name>
    <config>
        <trunk-name>TRUNKNAME</trunk-name>
    </config>
    <sessions>
    <session>
        <trunk-session-type>secondary</trunk-session-type>
        <config>
            <trunk-session-type>secondary</trunk-session-type>
        </config>
        <diff-serv-info>
        <elsp-class>
        <config>
```

```
                </elsp-signal><!-- operation="delete"-->
                <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
                <elsp-signal-class5>CLASS5</elsp-signal-class5> <!--
operation="delete"-->
          </config>
       </elsp-class>
   </diff-serv-info>
   </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
(secondary|primary) elsp-signaled CLASS1 CLASS2 CLASS3 CLASS4 CLASS5
```

Configure elsp signal class6

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class6

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class6

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal-class4

Attribute Type: string

Attribute Name: elsp-signal-class5

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
         <diff-serv-info>
         <elsp-class>
         <config>
                </elsp-signal><!-- operation="delete"-->
                <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
                <elsp-signal-class5>CLASS5</elsp-signal-class5> <!--
operation="delete"-->
                <elsp-signal-class6>CLASS6</elsp-signal-class6> <!--
operation="delete"-->
         </config>
      </elsp-class>
   </diff-serv-info>
   </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    (secondary|primary) elsp-signaled CLASS1 CLASS2 CLASS3 CLASS4 CLASS5 CLASS6
```

Configure elsp signal class7

Use this attribute to configure a primary Diff-Serv (Differentiated Services) explicitly signaled E-LSP (EXP-InferredPSC LSP) interface class7

This command is supported when following feature are enabled diffserv feature

Attribute Name: elsp-signal-class7

Attribute Type: string

Attribute Name: elsp-signal

Attribute Type: empty

Attribute Name: elsp-signal-class1

Attribute Type: string

Attribute Name: elsp-signal-class2

Attribute Type: string

Attribute Name: elsp-signal-class3

Attribute Type: string

Attribute Name: elsp-signal-class4

Attribute Type: string

Attribute Name: elsp-signal-class5

Attribute Type: string

Attribute Name: elsp-signal-class6

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <trunks>
   <ingress-trunks>
   <ingress-trunk>
      <trunk-name>TRUNKNAME</trunk-name>
      <config>
         <trunk-name>TRUNKNAME</trunk-name>
      </config>
      <sessions>
      <session>
         <trunk-session-type>secondary</trunk-session-type>
         <config>
            <trunk-session-type>secondary</trunk-session-type>
         </config>
         <diff-serv-info>
         <elsp-class>
         <config>
                </elsp-signal><!-- operation="delete"-->
                <elsp-signal-class1>CLASS1</elsp-signal-class1> <!--
operation="delete"-->
                <elsp-signal-class2>CLASS2</elsp-signal-class2> <!--
operation="delete"-->
                <elsp-signal-class3>CLASS3</elsp-signal-class3> <!--
operation="delete"-->
                <elsp-signal-class4>CLASS4</elsp-signal-class4> <!--
operation="delete"-->
                <elsp-signal-class5>CLASS5</elsp-signal-class5> <!--
operation="delete"-->
```

```
                <elsp-signal-class6>CLASS6</elsp-signal-class6> <!--
operation="delete"-->
                <elsp-signal-class7>CLASS7</elsp-signal-class7> <!--
operation="delete"-->
          </config>
       </elsp-class>
   </diff-serv-info>
   </session>
   </sessions>
   </ingress-trunk>
   </ingress-trunks>
   </trunks>
   </rsvp-te>
```

Command Syntax

```
    (secondary|primary) elsp-signaled CLASS1 CLASS2 CLASS3 CLASS4 CLASS5 CLASS6 CLASS7
```

Configure profile name

rsvp auto bandwidth profile name

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
    rsvp-auto-bandwidth PROFILENAME
```

Configure sample interval

Use this attribute to specify the sample interval for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: sample-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
      <sample-interval>1</sample-interval> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
 sample-interval <1-10080>
```

Configure adjust interval

Use this attribute to specify the adjust interval for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: adjust-interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 5-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
      <adjust-interval>5</adjust-interval> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
 adjust-interval <5-10080>
```

Configure minimum bandwidth

Use this attribute to specify a minimum bandwidth value for the rsvp auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: minimum-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
      <minimum-bandwidth>BANDWIDTH</minimum-bandwidth> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
minimum-bandwidth BANDWIDTH
```

Configure maximum bandwidth

Use this attribute to specify a maximum bandwidth value for the rsvp auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: maximum-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
      <maximum-bandwidth>BANDWIDTH</maximum-bandwidth> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
maximum-bandwidth BANDWIDTH
```

Configure overflow threshold percent

Use this attribute to specify the overflow threshold bandwidth in percentage for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-threshold-percent

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <overflow-threshold-percent>1</overflow-threshold-percent> <!--
operation="delete"-->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
    overflow-threshold percent <1-100>
```

Configure underflow threshold percent

Use this attribute to specify the underflow threshold bandwidth in percentage for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-threshold-percent

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <underflow-threshold-percent>1</underflow-threshold-percent> <!--
operation="delete"-->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
    underflow-threshold percent <1-100>
```

Configure overflow threshold bandwidth

Use this attribute to specify the upper adjust threshold bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-threshold-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <overflow-threshold-bandwidth>BANDWIDTH</overflow-threshold-bandwidth> <!--
operation="delete"-->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
    overflow-threshold absolute BANDWIDTH
```

Configure underflow threshold bandwidth

Use this attribute to specify the lower adjust threshold bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-threshold-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <underflow-threshold-bandwidth>BANDWIDTH</underflow-threshold-bandwidth> <!--
operation="delete"-->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
underflow-threshold absolute BANDWIDTH
```

Configure underflow threshold activate bandwidth

Use this attribute to specify the lower adjust threshold activate bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-threshold-activate-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <underflow-threshold-activate-bandwidth>BANDWIDTH</underflow-threshold-
activate-bandwidth> <!-- operation="delete"-->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
underflow-threshold-activate-bandwidth BANDWIDTH
```

Configure overflow threshold activate bandwidth

Use this attribute to specify the upper adjust threshold activate bandwidth for an RSVP auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-threshold-activate-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <overflow-threshold-activate-bandwidth>BANDWIDTH</overflow-threshold-
activate-bandwidth> <!-- operation="delete"-->
   </rsvp-auto-bandwidth>
```

```
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
overflow-threshold-activate-bandwidth BANDWIDTH
```

Configure overflow limit

Use this attribute to specify the adjust threshold overflow limit for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: overflow-limit

Attribute Type: uint16

Attribute Range: 1-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
      <overflow-limit>1</overflow-limit> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
overflow-limit <1-10080>
```

Configure underflow limit

Use this attribute to specify the adjust threshold underflow limit for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: underflow-limit

Attribute Type: uint16

Attribute Range: 1-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
```

```
        <underflow-limit>1</underflow-limit> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
 underflow-limit <1-10080>
```

Configure initial bandwidth

Use this attribute to specify an initial bandwidth value for the rsvp auto bandwidth profile. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 100 gbps.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: initial-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
    <profile-name>PROFILENAME</profile-name>
    <config>
        <profile-name>PROFILENAME</profile-name>
    </config>
        <initial-bandwidth>BANDWIDTH</initial-bandwidth> <!-- operation="delete"-->
</rsvp-auto-bandwidth>
</rsvp-auto-bandwidths>
</rsvp-te>
```

Command Syntax

```
 initial-bandwidth BANDWIDTH
```

Configure maximum bandwidth exceed limit

Use this attribute to specify the maximum bandwidth exceed limit for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: maximum-bandwidth-exceed-limit

Attribute Type: uint16

Default Value: 1

Attribute Range: 1-10080

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<rsvp-auto-bandwidths>
<rsvp-auto-bandwidth>
    <profile-name>PROFILENAME</profile-name>
```

```
       <config>
          <profile-name>PROFILENAME</profile-name>
       </config>
          <maximum-bandwidth-exceed-limit>1</maximum-bandwidth-exceed-limit> <!--
operation="delete"-->
    </rsvp-auto-bandwidth>
    </rsvp-auto-bandwidths>
    </rsvp-te>
```

Command Syntax

```
     maximum-bandwidth-exceed-limit <1-10080>
```

Configure maximum bandwidth exceed action

Use this attribute to teardown if maximum bandwidth exceeds for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: maximum-bandwidth-exceed-action

Attribute Type: enum (teardown)

Netconf edit-config payload

```
    <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
    <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
       <profile-name>PROFILENAME</profile-name>
       <config>
          <profile-name>PROFILENAME</profile-name>
       </config>
          <maximum-bandwidth-exceed-action>teardown</maximum-bandwidth-exceed-action>
<!-- operation="delete"-->
    </rsvp-auto-bandwidth>
    </rsvp-auto-bandwidths>
    </rsvp-te>
```

Command Syntax

```
     maximum-bandwidth-exceed-action (teardown)
```

Configure resignal failure action

Use this attribute to teardown if resignalling fails for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: resignal-failure-action

Attribute Type: enum (teardown)

Netconf edit-config payload

```
    <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
    <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
       <profile-name>PROFILENAME</profile-name>
```

```
       <config>
          <profile-name>PROFILENAME</profile-name>
       </config>
          <resignal-failure-action>teardown</resignal-failure-action> <!--
operation="delete"-->
    </rsvp-auto-bandwidth>
    </rsvp-auto-bandwidths>
    </rsvp-te>
```

Command Syntax

```
     resignal-failure-action (teardown)
```

Configure sync bandwidth

Use this attribute to sync bandwidth for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: sync-bandwidth

Attribute Type: empty

Netconf edit-config payload

```
    <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
    <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
       <profile-name>PROFILENAME</profile-name>
       <config>
          <profile-name>PROFILENAME</profile-name>
       </config>
          </sync-bandwidth><!-- operation="delete"-->
    </rsvp-auto-bandwidth>
    </rsvp-auto-bandwidths>
    </rsvp-te>
```

Command Syntax

```
     sync-bandwidth
```

Configure monitor bandwidth

Use this attribute to monitor bandwidth for an RSVP auto bandwidth profile

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: monitor-bandwidth

Attribute Type: empty

Netconf edit-config payload

```
    <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
    <rsvp-auto-bandwidths>
    <rsvp-auto-bandwidth>
       <profile-name>PROFILENAME</profile-name>
```

```
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         </monitor-bandwidth><!-- operation="delete"-->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
    monitor-bandwidth
```

Configure minimum samples percent

Use this attribute to specify the minimum percentage of rate samples to be collected in an adjustment cycle to be eligible for bandwidth processing. Minimum of one sample considered by default.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: minimum-samples-percent

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <minimum-samples-percent>1</minimum-samples-percent> <!-- operation="delete"-
->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
    minimum-samples percent <1-100>
```

Configure minimum samples absolute

Use this attribute to specify the minimum number of rate samples to be collected in an adjustment cycle to be eligible for bandwidth processing. Minimum of one sample considered by default.

This command is supported when following feature are enabled Auto bandwidth feature

Attribute Name: minimum-samples-absolute

Attribute Type: uint16

Attribute Range: 1-10080

Netconf edit-config payload

```
   <rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
   <rsvp-auto-bandwidths>
   <rsvp-auto-bandwidth>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
         <minimum-samples-absolute>1</minimum-samples-absolute> <!--
operation="delete"-->
   </rsvp-auto-bandwidth>
   </rsvp-auto-bandwidths>
   </rsvp-te>
```

Command Syntax

```
    minimum-samples absolute <1-10080>
```

clear rsvp session *

Netconf RPC payload

```
      <ipi-rsvp-trunk_clear-rsvp-session xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp"/>
```

Command Syntax

```
    clear rsvp session *
```

clear rsvp trunk (TRUNKNAME|*)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
      <ipi-rsvp-trunk_clear-rsvp-trunk xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp">
      <trunk-name>TRUNKNAME</trunk-name>
      </ipi-rsvp-trunk_clear-rsvp-trunk>
```

Command Syntax

```
    clear rsvp trunk (TRUNKNAME|*)
```

clear rsvp trunk (TRUNKNAME|*) (primary)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
      <ipi-rsvp-trunk_clear-rsvp-primary-trunk xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rsvp">
```

```
      <trunk-name>TRUNKNAME</trunk-name>
      </ipi-rsvp-trunk_clear-rsvp-primary-trunk>
```

Command Syntax

```
clear rsvp trunk (TRUNKNAME|*) (primary)
```

clear rsvp trunk (TRUNKNAME|*) (secondary)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
      <ipi-rsvp-trunk_clear-rsvp-secondary-trunk xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-rsvp">
      <trunk-name>TRUNKNAME</trunk-name>
      </ipi-rsvp-trunk_clear-rsvp-secondary-trunk>
```

Command Syntax

```
clear rsvp trunk (TRUNKNAME|*) (secondary)
```

clear rsvp trunk ingress (TRUNKNAME|*)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
      <ipi-rsvp-trunk_clear-rsvp-ingress-trunk xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rsvp">
      <trunk-name>TRUNKNAME</trunk-name>
      </ipi-rsvp-trunk_clear-rsvp-ingress-trunk>
```

Command Syntax

```
clear rsvp trunk ingress (TRUNKNAME|*)
```

clear rsvp trunk non-ingress (TRUNKNAME|*)

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
      <ipi-rsvp-trunk_clear-rsvp-non-ingress-trunk xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-rsvp">
      <trunk-name>TRUNKNAME</trunk-name>
      </ipi-rsvp-trunk_clear-rsvp-non-ingress-trunk>
```

Command Syntax

```
clear rsvp trunk non-ingress (TRUNKNAME|*)
```

rsvp-session SESSIONNAME force-reoptimize

Attribute Name: session-name

Attribute Type: string

Netconf RPC payload

```
       <ipi-rsvp-trunk_rsvp-trunk-force-reoptimize-on xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-rsvp">
       <session-name>SESSIONNAME</session-name>
       </ipi-rsvp-trunk_rsvp-trunk-force-reoptimize-on>
```

Command Syntax

```
rsvp-session SESSIONNAME force-reoptimize
```

rsvp-trunk TRUNKNAME force-switchover-secondary (off|on)

Attribute Name: trunk-name

Attribute Type: string

Attribute Name: action

Attribute Type: enum (off|on)

Netconf RPC payload

```
       <ipi-rsvp-trunk_rsvp-trunk-force-switchover-secondary xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-rsvp">
       <trunk-name>TRUNKNAME</trunk-name>
       <action>off</action>
       </ipi-rsvp-trunk_rsvp-trunk-force-switchover-secondary>
```

Command Syntax

```
rsvp-trunk TRUNKNAME force-switchover-secondary (off|on)
```

rsvp-trunk-restart

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
       <ipi-rsvp-trunk_rsvp-trunk-restart xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp">
       <trunk-name>WORD</trunk-name>
       </ipi-rsvp-trunk_rsvp-trunk-restart>
```

Command Syntax

```
rsvp-trunk-restart
```

clear rsvp session TUNNEL-ID LSP-ID INGRESS EGRESS

Attribute Name: tunnel-id

Attribute Type: uint32

Attribute Name: lsp-id

Attribute Type: uint32

Attribute Name: ingress

Attribute Type: inet:ipv4-address

Attribute Name: egress

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <ipi-rsvp-trunk_rsvp-session-reset xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp">
       <tunnel-id>TUNNEL-ID</tunnel-id>
       <lsp-id>LSP-ID</lsp-id>
       <ingress>INGRESS</ingress>
       <egress>EGRESS</egress>
       </ipi-rsvp-trunk_rsvp-session-reset>
```

Command Syntax

```
    clear rsvp session TUNNEL-ID LSP-ID INGRESS EGRESS
```

rsvp-trunk TRUNKNAME force-auto-bandwidth-adjustment (BANDWIDTH|)

Attribute Name: trunk-name

Attribute Type: string

Attribute Name: force-auto-bandwidth-adjustment

Attribute Type: boolean

Attribute Name: bandwidth

Attribute Type: string

Netconf RPC payload

```
       <ipi-rsvp-trunk_rsvp-trunk-force-auto-bandwidth-adjustment xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-rsvp">
       <trunk-name>TRUNKNAME</trunk-name>
       <force-auto-bandwidth-adjustment>true</force-auto-bandwidth-adjustment/>
       <bandwidth>BANDWIDTH</bandwidth>
       </ipi-rsvp-trunk_rsvp-trunk-force-auto-bandwidth-adjustment>
```

Command Syntax

```
    rsvp-trunk TRUNKNAME force-auto-bandwidth-adjustment (BANDWIDTH|)
```

clear rsvp auto-bandwidth (PROFILENAME|)

Attribute Name: autobw-profile

Attribute Type: string

Netconf RPC payload

```
       <ipi-rsvp-trunk_rsvp-clear-auto-bandwidth xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rsvp">
       <autobw-profile>PROFILENAME</autobw-profile>
       </ipi-rsvp-trunk_rsvp-clear-auto-bandwidth>
```

Command Syntax

```
    clear rsvp auto-bandwidth (PROFILENAME|)
```

clear rsvp trunk TRUNKNAME auto-bandwidth-statistics

Attribute Name: trunk-name

Attribute Type: string

Netconf RPC payload

```
       <ipi-rsvp-trunk_clear-rsvp-trunk-auto-bandwidth-statistics xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-rsvp">
       <trunk-name>TRUNKNAME</trunk-name>
       </ipi-rsvp-trunk_clear-rsvp-trunk-auto-bandwidth-statistics>
```

Command Syntax

```
    clear rsvp trunk TRUNKNAME auto-bandwidth-statistics
```

clear rsvp neighbor A.B.C.D

Attribute Name: address

Attribute Type: inet:ip-address

Netconf RPC payload

```
       <ipi-rsvp-trunk_clear-rsvp-neighbor xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rsvp">
       <address>A.B.C.D</address>
       </ipi-rsvp-trunk_clear-rsvp-neighbor>
```

Command Syntax

```
    clear rsvp neighbor A.B.C.D
```

IPI-RSVP-INTERFACE

Configure enable rsvp

Use this attribute to enable control adjacency to send and receive RSVP-TE control messages for MPLS and GMPLS

Attribute Name: enable-rsvp

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-rsvp><!-- operation="delete"-->
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
 enable-rsvp
```

Configure enable iana hello config

Enable the exchange of non IANA specific Hello messages

Attribute Name: enable-iana-hello-config

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      </enable-iana-hello-config><!-- operation="delete"-->
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
 rsvp non-IANA-hello
```

Configure disable refresh reduction

Use this attribute to enable refresh reduction capability advertisement for all interfaces

Attribute Name: disable-refresh-reduction

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <refresh-reduction>
   <config>
          </disable-refresh-reduction><!-- operation="delete"-->
   </config>
</refresh-reduction>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
 no rsvp refresh-reduction
```

Configure enable message ack

Use this attribute to enable message acknowledgement for all messages being sent to neighbors that are known to support refresh reduction.

Attribute Name: enable-message-ack

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <refresh-reduction>
   <config>
          </enable-message-ack><!-- operation="delete"-->
   </config>
</refresh-reduction>
</interface>
</interfaces>
```

```
</rsvp-te>
```

Command Syntax

```
rsvp message-ack
```

Configure ack wait timeout

Use this attribute to configure the acknowledgement wait timeout for all RSVP-TE neighbors

Attribute Name: ack-wait-timeout

Attribute Type: uint32

Default Value: 10

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <refresh-reduction>
   <config>
         <ack-wait-timeout>1</ack-wait-timeout> <!-- operation="delete"-->
   </config>
</refresh-reduction>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp ack-wait-timeout <1-65535>
```

Configure refresh time

Use this attribute to configure RSVP refresh interval timer. The timer specifies the interval after which Path and/ or Reservation Request (Resv) messages will be sent out.The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid Reservation Lifetime for an LSP. Refresh time regulates the interval between Refresh messages which include Path and Reservation Request (Resv) messages. Refresh messages are sent periodically so that reservation does not timeout in the neighboring nodes. Each sender and receiver host sends Path and Resv messages, downstream and upstream respectively, along the paths.

Attribute Name: refresh-time

Attribute Type: uint16

Default Value: 30

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <refresh-reduction>
   <config>
         <refresh-time>1</refresh-time> <!-- operation="delete"-->
   </config>
</refresh-reduction>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
 rsvp refresh-time <1-65535>
```

Configure keep multiplier

Use this attribute to configure the constant to be used to calculate a valid reservation lifetime for a Labeled Switched Path (LSP).The refresh time and keep multiplier are two interrelated timing parameters used to calculate the valid reservation lifetime for an LSP. The router sends refresh messages periodically so that the neighbors do not timeout

Attribute Name: keep-multiplier

Attribute Type: int32

Default Value: 3

Attribute Range: 1-255

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <refresh-reduction>
   <config>
         <keep-multiplier>1</keep-multiplier> <!-- operation="delete"-->
   </config>
</refresh-reduction>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp keep-multiplier <1-255>
```

Configure enable hello receipt

Use this attribute to enable the receipt of Hello messages from peers.

Attribute Name: enable-hello-receipt

Attribute Type: uint8

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <hellos>
   <config>
         </enable-hello-receipt><!-- operation="delete"-->
   </config>
</hellos>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp hello-receipt
```

Configure hello interval

Use this attribute to set an interval between Hello packets.Used as a global command, this value is over-ridden by the hello-interval set on the interface (see rsvp hello-interval).For optimum performance, set this value no more than one-third of the hello-timeout value.

Attribute Name: hello-interval

Attribute Type: int32

Default Value: 2

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
    <hellos>
    <config>
           <hello-interval>1</hello-interval> <!-- operation="delete"-->
    </config>
</hellos>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp hello-interval <1-65535>
```

Configure hello timeout

Timeout for clearing up all sessions shared with a neighbor.If an LSR has not received a Hello message from a peer within the number of seconds set with this command, all sessions shared with this peer are reset. The hello-timeout determines how long an RSVP node waits for a hello message before declaring a neighbor to be down.

Attribute Name: hello-timeout

Attribute Type: int32

Default Value: 7

Attribute Range: 1-65535

Netconf edit-config payload

```
<rsvp-te xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rsvp">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <hellos>
    <config>
           <hello-timeout>1</hello-timeout> <!-- operation="delete"-->
    </config>
</hellos>
</interface>
</interfaces>
</rsvp-te>
```

Command Syntax

```
rsvp hello-timeout <1-65535>
```

IPI-MPLS

Configure name

Specify service template name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>
```

Command Syntax

```
 service-template NAME
```

Configure match all

Use this attribute to specify match criteria as match all

Attribute Name: match-all

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   </match-all><!-- operation="delete"-->
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>
```

Command Syntax

```
match all
```

Configure match single tag outer vlan range

Use this attribute to set match type with outer vlan value

Attribute Name: match-single-tag-outer-vlan-range

Attribute Type: string

Attribute Range: 1-4094

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <match-single-tag-outer-vlan-range>VLAN_RANGE2</match-single-tag-outer-vlan-
range> <!-- operation="delete"-->
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>
```

Command Syntax

```
match outer-vlan VLAN_RANGE2
```

Configure match untagged

Use this attribute to specify match criteria as match untagged

Attribute Name: match-untagged

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   </match-untagged><!-- operation="delete"-->
</customer-service-template>
</customer-service-templates>
```

```
   </l2vpn>
   </mpls>
```

Command Syntax

```
    match untagged
```

Configure match inner vlan id

Specify inner vlan VID or range(VLAN ID 1-4094 or range: 2-5) for match double tag

Attribute Name: match-inner-vlan-id

Attribute Type: string

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <l2vpn>
   <customer-service-templates>
   <customer-service-template>
      <name>NAME</name>
      <config>
         <name>WORD</name>
      </config>
   <double-tags>
   <double-tag>
      <match-outer-vlan-id>1</match-outer-vlan-id>
      <config>
         <match-outer-vlan-id>1</match-outer-vlan-id>
      </config>
         <match-inner-vlan-id>VLAN_RANGE2</match-inner-vlan-id> <!--
operation="delete"-->
   </double-tag>
   </double-tags>
   </customer-service-template>
   </customer-service-templates>
   </l2vpn>
   </mpls>
```

Command Syntax

```
    match double-tag outer-vlan <1-4094> inner-vlan VLAN_RANGE2
```

Configure vlan action type

Specify rewrite ingress action type

Attribute Name: vlan-action-type

Attribute Type: enum (pop|push|translate)

Attribute Name: tag-protocol-identifier

Attribute Type: enum (dot1.q|dot1.ad|0x9100)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<action-types>
<action-type>
   <vlan-action-type>pop</vlan-action-type>
   <config>
      <vlan-action-type>pop</vlan-action-type>
      <tag-protocol-identifier>dot1.q</tag-protocol-identifier>
   </config>
</action-type>
</action-types>
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>
```

Command Syntax

```
 rewrite ingress (pop) (outgoing-tpid (dot1.q|dot1.ad|0x9100)|)
```

Configure outer vlan identifier

Specify rewrite ingress action type

Attribute Name: vlan-action-type

Attribute Type: enum (pop|push|translate)

Attribute Name: outer-vlan-identifier

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: tag-protocol-identifier

Attribute Type: enum (dot1.q|dot1.ad|0x9100)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<action-types>
```

```
<action-type>
   <vlan-action-type>pop</vlan-action-type>
   <config>
      <vlan-action-type>pop</vlan-action-type>
      <outer-vlan-identifier>1</outer-vlan-identifier>
      <tag-protocol-identifier>dot1.q</tag-protocol-identifier>
   </config>
</action-type>
</action-types>
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>
```

Command Syntax

```
rewrite ingress (translate) <1-4094> (outgoing-tpid (dot1.q|dot1.ad|0x9100)|)
```

Configure action-types vlan-action-type

Specify rewrite ingress action type

Attribute Name: vlan-action-type

Attribute Type: enum (pop|push|translate)

Attribute Name: outer-vlan-identifier

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<customer-service-templates>
<customer-service-template>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<action-types>
<action-type>
   <vlan-action-type>pop</vlan-action-type>
   <config>
      <vlan-action-type>pop</vlan-action-type>
      <outer-vlan-identifier>1</outer-vlan-identifier>
   </config>
</action-type>
</action-types>
</customer-service-template>
</customer-service-templates>
</l2vpn>
</mpls>
```

Command Syntax

```
rewrite ingress (push) <1-4094>
```

Configure group name

Use this attribute to create a new access circuit group for MPLS

This command is supported when following feature are enabled MPLS-VC feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<l2vpn>
<access-circuit-groups>
<access-circuit-group> <!-- operation="delete"-->
   <group-name>NAME</group-name>
   <config>
      <group-name>WORD</group-name>
      <group-identifier>1</group-identifier>
   </config>
</access-circuit-group>
</access-circuit-groups>
</l2vpn>
</mpls>
```

Command Syntax

```
mpls ac-group NAME <1-4294967295>
```

Configure local packet handling

Use this attribute to enable the labeling of locally generated TCP packets. All other locally generated packets are not looked at by the MPLS Forwarder

Attribute Name: local-packet-handling

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </local-packet-handling><!-- operation="delete"-->
</config>
</global>
```

```
</mpls>
```

Command Syntax

```
mpls local-packet-handling
```

Configure lsp stitching

Use this attribute to enable lsp stitching for ILM and installed FTM

Attribute Name: lsp-stitching

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </lsp-stitching><!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls lsp-stitching
```

Configure propagate ttl

Use this attribute to enable TTL propagation. Enabling TTL propagation causes the TTL value in the IP header to be copied onto the TTL field in the shim header, at the LSP ingress

Attribute Name: propagate-ttl

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </propagate-ttl><!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls propagate-ttl
```

Configure ingress ttl value

Use this attribute to set a Time to Live (TTL) value for LSPs for which this LSR is the ingress.

Attribute Name: ingress-ttl-value

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   <ingress-ttl-value>0</ingress-ttl-value> <!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls ingress-ttl <0-255>
```

Configure lsp model uniform

Use this attribute to configure the MPLS LSP model as Uniform.

Attribute Name: lsp-model-uniform

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </lsp-model-uniform><!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls lsp-model uniform
```

Configure lsp encap dscp preserve

Use this attribute to allow dscp update for IP packets encapsulated into MPLS frame

Attribute Name: lsp-encap-dscp-preserve

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </lsp-encap-dscp-preserve><!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls lsp-encap-dscp-preserve
```

Configure propagate exp to cos

Use this attribute to enable EXP propagation to exposed header after PHP action. This will further inherit the information to update COS value when network out interface (sub-interface or SVI) adds a vlan header.

Attribute Name: propagate-exp-to-cos

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </propagate-exp-to-cos><!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls php-ilm propagate-exp-to-cos
```

Configure l2vpn nw statistics

Use this attribute to allow counting the network side L2VPN traffic statistics at service level instead of counting them under transport. In Qumran2 devices, since a single counting profile is used, L2VPN traffic can be counted either at transport level or at service level but not both. In order to support auto bandwidth feature in RSVP, counting the traffic under transport is important. So, by default, L2VPN traffic is counted under transport. This attribute provisions the user to prefer network traffic statistics at L2VPN service level.

Attribute Name: l2vpn-nw-statistics

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </l2vpn-nw-statistics><!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls l2vpn-nw-statistics
```

Configure six pe dscp preserve

Use this attribute to configure DSCP preserve enable or disable for 6PE services

Attribute Name: six-pe-dscp-preserve

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   <six-pe-dscp-preserve>enable</six-pe-dscp-preserve> <!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
 mpls 6pe lsp-encap-dscp-preserve (enable|disable)
```

Configure suppress oper log mpls

Use this attribute to suppress oper logs for the MPLS services

Attribute Name: suppress-oper-log-mpls

Attribute Type: bits (l2vpn)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   <suppress-oper-log-mpls>l2vpn</suppress-oper-log-mpls> <!-- operation="delete"--
>
</config>
</global>
</mpls>
```

Command Syntax

```
 suppress-oper-log mpls (l2vpn)
```

Configure l2vpn stitching

Use this attribute to enable L2VPN stitching

Attribute Name: l2vpn-stitching

Attribute Type: empty

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<global>
<config>
   </l2vpn-stitching><!-- operation="delete"-->
</config>
</global>
</mpls>
```

Command Syntax

```
mpls l2vpn-stitching
```

Configure enable

Use this attribute to enable label-switching on a TE link

Attribute Name: enable

Attribute Type: empty

Attribute Name: label-space

Attribute Type: uint16

Attribute Range: 0-60000

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<label-switching>
<config>
       <label-space>0</label-space>
       </enable>
</config>
</label-switching>
</interface>
</interfaces>
</mpls>
```

Command Syntax

```
label-switching (<0-60000>|)
```

Configure admin group name

Use this attribute to create an administrative group to be used for links. Each link can be a member of one or more, or no administrative groups.this attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: admin-group-name

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
```

```
          <name>WORD</name>
       </config>
   <mpls-interface-bandwidth>
   <config>
          <admin-group-name>NAME</admin-group-name> <!-- operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
admin-group NAME
```

Configure admin group anomaly name

Use this attribute to create an anomaly administrative group to be advertised when measured link delay is anomalous. Each link can be a member of one or more, or no administrative groups.this attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: admin-group-anomaly-name

Attribute Type: string

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <mpls-interface-bandwidth>
   <config>
          <admin-group-anomaly-name>NAME</admin-group-anomaly-name> <!--
operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
admin-group anomaly NAME
```

Configure extended admin group name

Use this attribute to create a regular extended administrative group to be used for links. Each link can be a member of one or more, or no extended administrative groups. This attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: extended-admin-group-name

Attribute Type: string

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <mpls-interface-bandwidth>
   <config>
         <extended-admin-group-name>NAME</extended-admin-group-name> <!--
operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
    extended-admin-group NAME
```

Configure extended admin group anomaly name

Use this attribute to create an anomaly extended administrative group to be advertised when measured link delay is anomalous. Each link can be a member of one or more, or no extended administrative groups. This attribute adds link between an interface and a group. The name is the name of the group previously configured. There can be multiple groups per interface.

Attribute Name: extended-admin-group-anomaly-name

Attribute Type: string

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <mpls-interface-bandwidth>
   <config>
         <extended-admin-group-anomaly-name>NAME</extended-admin-group-anomaly-name>
<!-- operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
extended-admin-group anomaly NAME
```

Configure bandwidth

Use this attribute to specify a discrete, maximum bandwidth value for the interface. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 999 gbps.

Attribute Name: bandwidth

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mpls-interface-bandwidth>
<config>
      <bandwidth>BANDWIDTH</bandwidth> <!-- operation="delete"-->
</config>
</mpls-interface-bandwidth>
</interface>
</interfaces>
</mpls>
```

Command Syntax

```
bandwidth BANDWIDTH
```

Configure reservable bandwidth

Use this attribute to specify the maximum reservable bandwidth per interface. This value can be equal or smaller value than max-bandwidth. Attribute takes input from 1 to 999 kbps, 1 to 999 mbps and 1 to 999 gbps

Attribute Name: reservable-bandwidth

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<mpls-interface-bandwidth>
<config>
```

```
          <reservable-bandwidth>BANDWIDTH</reservable-bandwidth> <!--
operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
    reservable-bandwidth BANDWIDTH
```

Configure shared risk link group

Use this attribute to add the link to a srlg group

Attribute Name: shared-risk-link-group

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <mpls-interface-bandwidth>
   <config>
          <shared-risk-link-group>1</shared-risk-link-group> <!-- operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
    mpls traffic-eng srlg <1-4294967295>
```

Configure uni available bandwidth

Use this attribute to specify a unidirectional, available bandwidth value for the interface. The bandwidth attribute takes input in 0-999 kbps, 0-999 mbps and 0-100 gbps.

Attribute Name: uni-available-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <interfaces>
```

```
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <mpls-interface-bandwidth>
   <config>
         <uni-available-bandwidth>BANDWIDTH</uni-available-bandwidth> <!--
operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
    bandwidth-measurement static uni-available-bandwidth BANDWIDTH
```

Configure uni residual bandwidth

Use this attribute to specify a unidirectional, residual bandwidth value for the interface. The bandwidth attribute takes input in 0-999 kbps, 0-999 mbps and 0-100 gbps.

Attribute Name: uni-residual-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <mpls-interface-bandwidth>
   <config>
         <uni-residual-bandwidth>BANDWIDTH</uni-residual-bandwidth> <!--
operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
    bandwidth-measurement static uni-residual-bandwidth BANDWIDTH
```

Configure uni utilized bandwidth

Use this attribute to specify a unidirectional, utilised bandwidth value for the interface. The bandwidth attribute takes input in 0 to 999 kbps, 0 to 999 mbps and 1 to 100gbps.

Attribute Name: uni-utilized-bandwidth

Attribute Type: string

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <mpls-interface-bandwidth>
   <config>
         <uni-utilized-bandwidth>BANDWIDTH</uni-utilized-bandwidth> <!--
operation="delete"-->
   </config>
   </mpls-interface-bandwidth>
   </interface>
   </interfaces>
   </mpls>
```

Command Syntax

```
    bandwidth-measurement static uni-utilized-bandwidth BANDWIDTH
```

Configure max label

Use this attribute to configure a maximum label value for a label space. After setting a maximum label value for a label space, make sure to bind the label space to an interface

Attribute Name: max-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: min-label

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <label-spaces>
   <label-space>
      <label-space-name>0</label-space-name>
      <config>
         <label-space-name>0</label-space-name>
      </config>
```

```
<global-label-range>
<config>
       <min-label>16</min-label>
       <max-label>16</max-label>
</config>
</global-label-range>
</label-space>
</label-spaces>
</mpls>
```

Command Syntax

```
mpls min-label-value <16-1048575> max-label-value <16-1048575> (label-space <0-
  60000>|)
```

Configure label space name

This attribute identifies the label space

Attribute Name: label-space-name

Attribute Type: uint16

Attribute Range: 0-60000

Attribute Name: module-name

Attribute Type: enum (rsvp|ldp|ldp-vc|bgp)

Attribute Name: min-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: max-label

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<label-spaces>
<label-space> <!-- operation="delete"-->
   <label-space-name>0</label-space-name>
   <config>
      <label-space-name>0</label-space-name>
   </config>
<module-label-ranges>
<module-label-range>
   <module-name>rsvp</module-name>
   <config>
      <min-label>16</min-label>
         <max-label>16</max-label>
      </config>
   </module-label-range>
</module-label-ranges>
```

```
</label-space>
</label-spaces>
</mpls>
```

Command Syntax

```
mpls (rsvp|ldp|ldp-vc|bgp) min-label-value <16-1048575> max-label-value <16-
  1048575> (label-space <0-60000>|)
```

Configure ftn ecmp protocol

Use this attribute to configure ECMP on forwarder for supported protocol FTNs

Attribute Name: ftn-ecmp-protocol

Attribute Type: bits (ldp|sr)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<ecmp>
<config>
   <ftn-ecmp-protocol>ldp</ftn-ecmp-protocol> <!-- operation="delete"-->
</config>
</ecmp>
</mpls>
```

Command Syntax

```
mpls ftn-ecmp (ldp|sr)
```

Configure ilm ecmp protocol

Use this attribute to configure ECMP on forwarder for supported protocol ILMs

Attribute Name: ilm-ecmp-protocol

Attribute Type: bits (ldp|sr)

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<ecmp>
<config>
   <ilm-ecmp-protocol>ldp</ilm-ecmp-protocol> <!-- operation="delete"-->
</config>
</ecmp>
</mpls>
```

Command Syntax

```
mpls ilm-ecmp (ldp|sr)
```

Configure six-pe-tunnel-policies name

Name for the tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature ,6PE feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<six-pe-tunnel-policies>
<six-pe-tunnel-policy> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</six-pe-tunnel-policy>
</six-pe-tunnel-policies>
</mpls>
```

Command Syntax

```
mpls 6pe tunnel-select-policy NAME
```

Configure bandwidth-classes name

Use this attribute to create a new bandwidth class name. Using this command changes the command mode to Bandwidth-class mode

This command is supported when following feature are enabled TE feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<bandwidth-classes>
<bandwidth-class> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</bandwidth-class>
</bandwidth-classes>
</mpls>
```

Command Syntax

```
mpls bandwidth-class NAME
```

Configure max bandwidth

Use this attribute to specify a discrete, maximum bandwidth value for the interface. The bandwidth attribute takes input ranges from 1 to 999 kbps, 1 to 999 mbps and 1 to 999 gbps.

This command is supported when following feature are enabled TE feature

Attribute Name: max-bandwidth

Attribute Type: string

Attribute Name: setup-priority

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: hold-priority

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<bandwidth-classes>
<bandwidth-class>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
<properties>
<config>
       <setup-priority>0</setup-priority>
       <hold-priority>0</hold-priority>
       <max-bandwidth>BANDWIDTH</max-bandwidth>
</config>
</properties>
</bandwidth-class>
</bandwidth-classes>
</mpls>
```

Command Syntax

```
bandwidth BANDWIDTH setup-priority <0-7> hold-priority <0-7>
```

IPI-MPLS-RIB

Configure route prefix

Use this attribute to specify the route prefix for which FEC mapping needs to be added

Attribute Name: route-prefix

Attribute Type: string

Attribute Name: mapped-fec

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<map-route>
<static-ipv4-map-routes>
<static-ipv4-map-route> <!-- operation="delete"-->
   <route-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</route-prefix>
   <config>
      <route-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</route-prefix>
      <mapped-fec>A.B.C.D/M|A.B.C.D A.B.C.D</mapped-fec>
   </config>
</static-ipv4-map-route>
</static-ipv4-map-routes>
</map-route>
</rib>
</mpls>
```

Command Syntax

```
mpls map-route (A.B.C.D/M|A.B.C.D A.B.C.D) (A.B.C.D/M|A.B.C.D A.B.C.D)
```

Configure out interface name

Outgoing interface name

Attribute Name: out-interface-name

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<ipv4-static-ftn-entries>
<ipv4-static-ftn-entry>
   <out-interface-name>IFNAME</out-interface-name>
   <config>
      <out-interface-name>IFNAME</out-interface-name>
      <nexthop-ip-address>A.B.C.D</nexthop-ip-address>
      <pushed-label>16</pushed-label>
      <fec-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</fec-prefix>
   </config>
      <nexthop-ip-address>A.B.C.D</nexthop-ip-address>
      <pushed-label>16</pushed-label>
      <fec-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</fec-prefix>
</ipv4-static-ftn-entry>
</ipv4-static-ftn-entries>
</static-lsps>
</rib>
</mpls>
```

Command Syntax

```
mpls ftn-entry (A.B.C.D/M|A.B.C.D A.B.C.D) <16-15999> A.B.C.D IFNAME
```

Configure tunnel id

FTN tunnel-id value

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: tunnel-id

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ftn-tunnels>
<static-ftn-tunnel> <!-- operation="delete"-->
   <is-primary>primary</is-primary>
   <config>
      <is-primary>primary</is-primary>
      <out-interface-name>IFNAME</out-interface-name>
      <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
      <pushed-label>16</pushed-label>
      <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
      <tunnel-id>1</tunnel-id>
   </config>
      <out-interface-name>IFNAME</out-interface-name>
      <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
      <pushed-label>16</pushed-label>
      <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
      <tunnel-id>1</tunnel-id>
</static-ftn-tunnel>
</static-ftn-tunnels>
</static-lsps>
</rib>
</mpls>
```

Command Syntax

```
mpls ftn-entry tunnel-id <1-5000> (A.B.C.D/M|A.B.C.D A.B.C.D) <16-1048575> A.B.C.D
  IFNAME ((secondary|primary)|)
```

Configure fec prefix

FTN tunnel-id value

This command is supported when following feature are disabled Generic MPLS Tunnel Infra Feature

Attribute Name: tunnel-id

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ftn-tunnels>
<static-ftn-tunnel> <!-- operation="delete"-->
   <is-primary>primary</is-primary>
   <config>
      <is-primary>primary</is-primary>
      <out-interface-name>IFNAME</out-interface-name>
      <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
      <pushed-label>16</pushed-label>
      <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
      <tunnel-id>1</tunnel-id>
   </config>
      <out-interface-name>IFNAME</out-interface-name>
      <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
      <pushed-label>16</pushed-label>
      <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
      <tunnel-id>1</tunnel-id>
</static-ftn-tunnel>
</static-ftn-tunnels>
</static-lsps>
</rib>
</mpls>
```

Command Syntax

```
mpls ftn-entry tunnel-id <1-5000> X:X::X:X/M <16-1048575> X:X::X:X IFNAME
  ((secondary|primary)|)
```

Configure enable pop label

Use this attribute to create an ILM entry in the ILM table to which a POP incoming interface is bound. Upon receipt of a labeled packet on an MPLS-enabled router, a lookup is done based on the incoming label in the ILM table. If a match is found, the packet may either be label-switched downstream, or popped and passed over IP. In a pop operation, an outgoing label is not needed as is either accepted or forwarded over IP. The nexthop option is also not mandatory because the FEC IP address could be a local IP address

Attribute Name: enable-pop-label

Attribute Type: uint8

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ilm-entries>
<static-ilm-entry>
   <incoming-label>16</incoming-label>
```

```
      <config>
         <incoming-label>16</incoming-label>
      </config>
      <pop>
      <config>
            </enable-pop-label>
      </config>
   </pop>
   </static-ilm-entry>
   </static-ilm-entries>
   </static-lsps>
   </rib>
   </mpls>
```

Command Syntax

```
 mpls ilm-entry <16-15999> pop
```

Configure incoming label

Incoming Label

Attribute Name: incoming-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-interface-name

Attribute Type: string

Attribute Name: swapped-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: out-interface-name

Attribute Type: string

Attribute Name: nexthop-ip-address

Attribute Type: inet:ip-address

Attribute Name: fec-prefix

Attribute Type: union

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
   <static-lsps>
   <static-ilm-entries>
   <static-ilm-entry> <!-- operation="delete"-->
      <incoming-label>16</incoming-label>
      <config>
         <incoming-label>16</incoming-label>
```

```
    </config>
    <swaps>
    <swap>
       <in-interface-name>IFNAME</in-interface-name>
          <swapped-label>16</swapped-label>
             <out-interface-name>IFNAME</out-interface-name>
                <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
                   <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
                </swap>
             </swaps>
          </static-ilm-entry>
       </static-ilm-entries>
    </static-lsps>
</rib>
</mpls>
```

Command Syntax

```
mpls ilm-entry <16-15999> swap <16-1048575> IFNAME A.B.C.D (A.B.C.D/M|A.B.C.D
  A.B.C.D)
```

Configure in interface name

Incoming Label

Attribute Name: incoming-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-interface-name

Attribute Type: string

Attribute Name: swapped-label

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: out-interface-name

Attribute Type: string

Attribute Name: nexthop-ip-address

Attribute Type: inet:ipv4-address

Attribute Name: fec-prefix

Attribute Type: string

Netconf edit-config payload

```
<mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
<rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
<static-lsps>
<static-ilm-entries>
<static-ilm-entry> <!-- operation="delete"-->
   <incoming-label>16</incoming-label>
```

```
      <config>
         <incoming-label>16</incoming-label>
      </config>
      <swaps>
      <swap>
         <in-interface-name>IFNAME</in-interface-name>
            <swapped-label>16</swapped-label>
               <out-interface-name>IFNAME</out-interface-name>
                  <nexthop-ip-address>CML_IP_ADDR_T</nexthop-ip-address>
                     <fec-prefix>CML_IP_PREFIX_T</fec-prefix>
                  </swap>
               </swaps>
            </static-ilm-entry>
         </static-ilm-entries>
      </static-lsps>
   </rib>
   </mpls>
```

Command Syntax

```
mpls ilm-entry <16-15999> swap <16-1048575> IFNAME X:X::X:X X:X::X:X/M
```

Configure mpls aware rib disabled

Enables or disables MPLS-Aware RIB Feature. Enabled by default

Attribute Name: mpls-aware-rib-disabled

Attribute Type: empty

Netconf edit-config payload

```
   <mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls">
   <rib xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-rib">
   <global>
   <config>
         </mpls-aware-rib-disabled><!-- operation="delete"-->
   </config>
   </global>
   </rib>
   </mpls>
```

Command Syntax

```
recursive mpls-resolution disabled
```

IPI-MPLS-BFD

Configure fec address

This attribute is used to configure fec address of the MPLS BFD session

Attribute Name: fec-address

Attribute Type: string

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<session-groups>
<session-group> <!-- operation="delete"-->
   <fec-address>A.B.C.D/M</fec-address>
   <config>
      <fec-address>A.B.C.D/M</fec-address>
      <lsp-type>ldp</lsp-type>
   </config>
      <lsp-type>ldp</lsp-type>
</session-group>
</session-groups>
</mpls-lsp>
</bfd>
```

Command Syntax

```
 mpls bfd (ldp|static) A.B.C.D/M
```

Configure lsp ping interval

Use this attribute to set LSP ping interval

Attribute Name: lsp-ping-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 0-1000

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<session-groups>
<session-group>
   <fec-address>A.B.C.D/M</fec-address>
   <config>
      <fec-address>A.B.C.D/M</fec-address>
      <lsp-type>ldp</lsp-type>
   </config>
      <lsp-type>ldp</lsp-type>
   <session-attributes>
   <config>
         <lsp-ping-interval>0</lsp-ping-interval> <!-- operation="delete"-->
   </config>
</session-attributes>
</session-group>
</session-groups>
```

```
</mpls-lsp>
</bfd>
```

Command Syntax

```
lsp-ping-interval <0-1000>
```

Configure admin down

Use this attribute to shutdown selected MPLS BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<session-groups>
<session-group>
   <fec-address>A.B.C.D/M</fec-address>
   <config>
      <fec-address>A.B.C.D/M</fec-address>
      <lsp-type>ldp</lsp-type>
   </config>
      <lsp-type>ldp</lsp-type>
   <session-attributes>
   <config>
         </admin-down><!-- operation="delete"-->
   </config>
</session-attributes>
</session-group>
</session-groups>
</mpls-lsp>
</bfd>
```

Command Syntax

```
shutdown
```

Configure detection multiplier

Use this attribute to set MPLS BFD detection multiplier value

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-lsp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<session-groups>
```

```
<session-group>
   <fec-address>A.B.C.D/M</fec-address>
   <config>
      <fec-address>A.B.C.D/M</fec-address>
      <lsp-type>ldp</lsp-type>
   </config>
      <lsp-type>ldp</lsp-type>
   <session-attributes>
   <intervals>
   <interval> <!-- operation="delete"-->
      <detection-multiplier>1</detection-multiplier>
      <config>
         <detection-multiplier>1</detection-multiplier>
         <minimum-rx>3</minimum-rx>
         <minimum-tx>3</minimum-tx>
      </config>
         <minimum-rx>3</minimum-rx>
         <minimum-tx>3</minimum-tx>
   </interval>
</intervals>
</session-attributes>
</session-group>
</session-groups>
</mpls-lsp>
</bfd>
```

Command Syntax

```
min-tx <3-4294967> min-rx <3-4294967> multiplier <1-255>
```

Configure lsp type

This attribute is used to configure lsp type of the MPLS BFD session

Attribute Name: lsp-type

Attribute Type: enum (static|generic)

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp> <!-- operation="delete"-->
   <lsp-type>static</lsp-type>
   <config>
      <lsp-type>static</lsp-type>
   </config>
</mpls-all-lsp>
</mpls-all-lsps>
</bfd>
```

Command Syntax

```
mpls bfd (static|generic) all
```

Configure session-attributes lsp-ping-interval

Use this attribute to set LSP ping interval

Attribute Name: lsp-ping-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 0-1000

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp>
   <lsp-type>static</lsp-type>
   <config>
      <lsp-type>static</lsp-type>
   </config>
   <session-attributes>
   <config>
          <lsp-ping-interval>0</lsp-ping-interval> <!-- operation="delete"-->
   </config>
</session-attributes>
</mpls-all-lsp>
</mpls-all-lsps>
</bfd>
```

Command Syntax

```
 lsp-ping-interval <0-1000>
```

Configure session-attributes admin-down

Use this attribute to shutdown selected MPLS BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp>
   <lsp-type>static</lsp-type>
   <config>
      <lsp-type>static</lsp-type>
   </config>
   <session-attributes>
   <config>
          </admin-down><!-- operation="delete"-->
   </config>
</session-attributes>
```

```
</mpls-all-lsp>
</mpls-all-lsps>
</bfd>
```

Command Syntax

```
shutdown
```

Configure minimum tx

Use this attribute to set MPLS BFD detection multiplier value

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-all-lsps xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-all-lsp>
   <lsp-type>static</lsp-type>
   <config>
      <lsp-type>static</lsp-type>
   </config>
   <session-attributes>
   <intervals>
   <interval> <!-- operation="delete"-->
      <detection-multiplier>1</detection-multiplier>
      <config>
         <detection-multiplier>1</detection-multiplier>
         <minimum-rx>3</minimum-rx>
         <minimum-tx>3</minimum-tx>
      </config>
         <minimum-rx>3</minimum-rx>
         <minimum-tx>3</minimum-tx>
   </interval>
</intervals>
</session-attributes>
</mpls-all-lsp>
</mpls-all-lsps>
</bfd>
```

Command Syntax

```
min-tx <3-4294967> min-rx <3-4294967> multiplier <1-255>
```

Configure tunnel name

This attribute is used to configure tunnel-name of the RSVP BFD session

Attribute Name: tunnel-name

Attribute Type: string

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel> <!-- operation="delete"-->
   <tunnel-name>NAME</tunnel-name>
   <config>
      <tunnel-name>WORD</tunnel-name>
      <lsp-type>rsvp</lsp-type>
   </config>
      <lsp-type>rsvp</lsp-type>
</mpls-tunnel>
</mpls-tunnels>
</bfd>
```

Command Syntax

```
mpls bfd (rsvp) tunnel-name NAME
```

Configure session-attributes lsp-ping-interval

Use this attribute to set LSP ping interval

Attribute Name: lsp-ping-interval

Attribute Type: uint16

Default Value: 5

Attribute Range: 0-1000

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel>
   <tunnel-name>NAME</tunnel-name>
   <config>
      <tunnel-name>WORD</tunnel-name>
      <lsp-type>rsvp</lsp-type>
   </config>
      <lsp-type>rsvp</lsp-type>
   <session-attributes>
   <config>
         <lsp-ping-interval>0</lsp-ping-interval> <!-- operation="delete"-->
   </config>
</session-attributes>
</mpls-tunnel>
</mpls-tunnels>
</bfd>
```

Command Syntax

```
lsp-ping-interval <0-1000>
```

Configure session-attributes admin-down

Use this attribute to shutdown selected MPLS BFD session

Attribute Name: admin-down

Attribute Type: empty

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel>
   <tunnel-name>NAME</tunnel-name>
   <config>
      <tunnel-name>WORD</tunnel-name>
      <lsp-type>rsvp</lsp-type>
   </config>
      <lsp-type>rsvp</lsp-type>
   <session-attributes>
   <config>
          </admin-down><!-- operation="delete"-->
   </config>
</session-attributes>
</mpls-tunnel>
</mpls-tunnels>
</bfd>
```

Command Syntax

```
 shutdown
```

Configure minimum rx

Use this attribute to set MPLS BFD detection multiplier value

Attribute Name: detection-multiplier

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<bfd xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bfd">
<mpls-tunnels xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mpls-bfd">
<mpls-tunnel>
   <tunnel-name>NAME</tunnel-name>
   <config>
      <tunnel-name>WORD</tunnel-name>
      <lsp-type>rsvp</lsp-type>
   </config>
      <lsp-type>rsvp</lsp-type>
   <session-attributes>
   <intervals>
   <interval> <!-- operation="delete"-->
```

```
          <detection-multiplier>1</detection-multiplier>
          <config>
             <detection-multiplier>1</detection-multiplier>
             <minimum-rx>3</minimum-rx>
             <minimum-tx>3</minimum-tx>
          </config>
             <minimum-rx>3</minimum-rx>
             <minimum-tx>3</minimum-tx>
       </interval>
    </intervals>
    </session-attributes>
    </mpls-tunnel>
    </mpls-tunnels>
    </bfd>
```

Command Syntax

```
 min-tx <3-4294967> min-rx <3-4294967> multiplier <1-255>
```

IPI-L2VPN-VPWS

Configure pseudowire identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire> <!-- operation="delete"-->
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
```

```
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> (A.B.C.D|X:X::X:X)
```

Configure instance name

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
```

```
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
             </enable-default-tagged-mode>
                <service-tpid>dot1.q</service-tpid>
             </config>
          </default-tagged>
       </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure instance type

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
```

```
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-control-word>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  control-word
```

Configure peer address

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
```

```
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-control-word>
                     </enable-manual-pseudowire>
                  </config>
               </default-tagged>
            </pseudowire>
         </pseudowires>
      </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  control-word manual
```

Configure enable default tagged mode

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
```

```
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
             </enable-default-tagged-mode>
                </enable-control-word>
             </config>
          </default-tagged>
       </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> control-word
```

Configure service tpid

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
```

```
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-manual-pseudowire>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  manual
```

Configure enable manual pseudowire

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```
<network-instance>
    <instance-name>NAME</instance-name>
    <config>
        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>
    </config>
        <instance-type>vpws</instance-type>
    <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
    <pseudowires>
    <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
        </config>
            <pseudowire-identifier>1</pseudowire-identifier>
        <default-tagged>
        <config>
            </enable-default-tagged-mode>
                </enable-manual-pseudowire>
            </config>
        </default-tagged>
    </pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> manual
```

Configure tunnel name

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <tunnel-name>NAME</tunnel-name>
            </config>
         </default-tagged>
      </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <tunnel-name>NAME</tunnel-name>
                  </enable-manual-pseudowire>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> tunnel-name NAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  <tunnel-name>NAME</tunnel-name>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
   tunnel-name NAME
```

Configure enable control word

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-control-word>
                     <tunnel-name>NAME</tunnel-name>
                  </config>
               </default-tagged>
            </pseudowire>
         </pseudowires>
      </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  control-word tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
```

```
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-control-word>
                     <tunnel-name>NAME</tunnel-name>
                        </enable-manual-pseudowire>
                     </config>
                  </default-tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  control-word tunnel-name NAME manual
```

Configure tunnel identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
```

```
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <tunnel-identifier>1</tunnel-identifier>
            </config>
         </default-tagged>
      </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
```

```
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <tunnel-identifier>1</tunnel-identifier>
                  </enable-manual-pseudowire>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> tunnel-id <1-5000> manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
```

```
        <instance-type>vpws</instance-type>
      </config>
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        <default-tagged>
        <config>
          </enable-default-tagged-mode>
            <service-tpid>dot1.q</service-tpid>
              <tunnel-identifier>1</tunnel-identifier>
            </config>
          </default-tagged>
        </pseudowire>
      </pseudowires>
  </vpws-instance>
  </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-control-word>
                     <tunnel-identifier>1</tunnel-identifier>
                  </config>
               </default-tagged>
            </pseudowire>
         </pseudowires>
      </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
   control-word tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-control-word>
                     <tunnel-identifier>1</tunnel-identifier>
                        </enable-manual-pseudowire>
                     </config>
                  </default-tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
   control-word tunnel-id <1-5000> manual
```

Configure tunnel policy

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <tunnel-policy>POLICYNAME</tunnel-policy>
            </config>
         </default-tagged>
      </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
             </enable-default-tagged-mode>
                <service-tpid>dot1.q</service-tpid>
                   <tunnel-policy>POLICYNAME</tunnel-policy>
                </config>
             </default-tagged>
          </pseudowire>
       </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
```

```
                    </enable-control-word>
                       <tunnel-policy>POLICYNAME</tunnel-policy>
                    </config>
                 </default-tagged>
              </pseudowire>
           </pseudowires>
        </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
  control-word tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <service-tpid>dot1.q</service-tpid>
                  </enable-control-word>
                     <tunnel-policy>POLICYNAME</tunnel-policy>
                        </enable-manual-pseudowire>
                     </config>
                  </default-tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
      control-word tunnel-select-policy POLICYNAME manual
```

Configure group name

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
```

```
        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>
      </config>
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        <default-tagged>
        <config>
          </enable-default-tagged-mode>
            <group-name>NAME</group-name>
          </config>
        </default-tagged>
      </pseudowire>
  </pseudowires>
  </vpws-instance>
  </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <service-tpid>dot1.q</service-tpid>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure group identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <service-tpid>dot1.q</service-tpid>
                     <group-identifier>1</group-identifier>
                        </enable-control-word>
                     </config>
                  </default-tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <service-tpid>dot1.q</service-tpid>
                     <group-identifier>1</group-identifier>
                  </config>
```

```
                </default-tagged>
              </pseudowire>
           </pseudowires>
        </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     mpls l2-circuit NAME <1-4294967295> NAME service-tpid
       (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
```

```
<vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<pseudowires>
<pseudowire>
   <peer-address>VPWS_IP_ADDR_T</peer-address>
   <config>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <pseudowire-identifier>1</pseudowire-identifier>
   </config>
      <pseudowire-identifier>1</pseudowire-identifier>
   <default-tagged>
   <config>
      </enable-default-tagged-mode>
         <group-name>NAME</group-name>
            <service-tpid>dot1.q</service-tpid>
               <group-identifier>1</group-identifier>
                  </enable-control-word>
                     </enable-manual-pseudowire>
                  </config>
               </default-tagged>
            </pseudowire>
         </pseudowires>
      </vpws-instance>
   </network-instance>
</network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
  (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <tunnel-name>NAME</tunnel-name>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <service-tpid>dot1.q</service-tpid>
                     <group-identifier>1</group-identifier>
                        </enable-control-word>
                           <tunnel-name>NAME</tunnel-name>
                        </config>
                     </default-tagged>
                  </pseudowire>
               </pseudowires>
            </vpws-instance>
         </network-instance>
      </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
  (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-name
  NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```
<pseudowires>
<pseudowire>
   <peer-address>VPWS_IP_ADDR_T</peer-address>
   <config>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <pseudowire-identifier>1</pseudowire-identifier>
   </config>
      <pseudowire-identifier>1</pseudowire-identifier>
   <default-tagged>
   <config>
      </enable-default-tagged-mode>
         <group-name>NAME</group-name>
            <service-tpid>dot1.q</service-tpid>
               <group-identifier>1</group-identifier>
                  </enable-control-word>
                     <tunnel-name>NAME</tunnel-name>
                        </enable-manual-pseudowire>
                     </config>
                  </default-tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
  (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-name
  NAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <tunnel-identifier>1</tunnel-identifier>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <service-tpid>dot1.q</service-tpid>
                     <group-identifier>1</group-identifier>
                        </enable-control-word>
                           <tunnel-identifier>1</tunnel-identifier>
                        </config>
                     </default-tagged>
                  </pseudowire>
               </pseudowires>
            </vpws-instance>
         </network-instance>
      </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
  (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-id <1-
  5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```
<pseudowires>
<pseudowire>
   <peer-address>VPWS_IP_ADDR_T</peer-address>
   <config>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <pseudowire-identifier>1</pseudowire-identifier>
   </config>
      <pseudowire-identifier>1</pseudowire-identifier>
   <default-tagged>
   <config>
      </enable-default-tagged-mode>
         <group-name>NAME</group-name>
            <service-tpid>dot1.q</service-tpid>
               <group-identifier>1</group-identifier>
                  </enable-control-word>
                     <tunnel-identifier>1</tunnel-identifier>
                        </enable-manual-pseudowire>
                     </config>
                  </default-tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
  (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-id <1-
  5000> manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <tunnel-policy>POLICYNAME</tunnel-policy>
               </config>
            </default-tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> NAME tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <service-tpid>dot1.q</service-tpid>
                     <group-identifier>1</group-identifier>
                        </enable-control-word>
                           <tunnel-policy>POLICYNAME</tunnel-policy>
                        </config>
                     </default-tagged>
                  </pseudowire>
               </pseudowires>
            </vpws-instance>
         </network-instance>
      </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
  (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
  select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-default-tagged-mode

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
            </enable-default-tagged-mode>
               <group-name>NAME</group-name>
                  <service-tpid>dot1.q</service-tpid>
                     <group-identifier>1</group-identifier>
                        </enable-control-word>
                           <tunnel-policy>POLICYNAME</tunnel-policy>
                              </enable-manual-pseudowire>
                           </config>
                        </default-tagged>
                     </pseudowire>
                  </pseudowires>
               </vpws-instance>
            </network-instance>
         </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME service-tpid
  (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
  select-policy POLICYNAME manual
```

Configure enable interface parameter tlv

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
```

```
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
                </enable-flow-label><!-- operation="delete"-->
                <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
                </enable-interface-parameter-tlv><!-- operation="delete"-->
          </config>
       </default-tagged>
    </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     flow-label (both|transmit|receive) interface-param-tlv
```

Configure enable static flow label

Use this attribute to enable static flow label for VPWS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
```

```
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
                </enable-flow-label><!-- operation="delete"-->
                <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
                </enable-static-flow-label><!-- operation="delete"-->
          </config>
       </default-tagged>
    </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     flow-label (both|transmit|receive) static
```

Configure flow label direction

Use this attribute to configure flow label direction to transmit,receive or both for VPWS Virtual Circuits.

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
```

```
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
                </enable-flow-label><!-- operation="delete"-->
                <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    flow-label (both|transmit|receive)
```

Configure default-tagged service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
                <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
         </config>
      </default-tagged>
```

```
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure default-tagged group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
<network-instance>
   <instance-name>NAME</instance-name>
   <config>
      <instance-name>WORD</instance-name>
      <instance-type>vpws</instance-type>
   </config>
      <instance-type>vpws</instance-type>
   <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
   <pseudowires>
   <pseudowire>
      <peer-address>VPWS_IP_ADDR_T</peer-address>
      <config>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <pseudowire-identifier>1</pseudowire-identifier>
      </config>
         <pseudowire-identifier>1</pseudowire-identifier>
      <default-tagged>
      <config>
            <group-name>NAME</group-name> <!-- operation="delete"-->
      </config>
   </default-tagged>
</pseudowire>
</pseudowires>
</vpws-instance>
</network-instance>
</network-instances>
```

Command Syntax

```
group-name NAME
```

Configure default-tagged group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
               <group-identifier>1</group-identifier> <!-- operation="delete"-->
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 group-id <1-4294967295>
```

Configure default-tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
                </enable-control-word><!-- operation="delete"-->
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    control-word
```

Configure default-tagged tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
```

```
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
                <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 tunnel-name NAME
```

Configure default-tagged tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
```

```
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
                <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 tunnel-select-policy POLICYNAME
```

Configure default-tagged tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
                <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
```

```
   </network-instance>
   </network-instances>
```

Command Syntax

```
    tunnel-id <1-5000>
```

Configure default-tagged enable-manual-pseudowire

This attribute is used to configure static pseudowire.

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <default-tagged>
         <config>
                </enable-manual-pseudowire><!-- operation="delete"-->
         </config>
      </default-tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    manual-pseudowire
```

Configure control channel type

Use this attribute to configure the Control-Channel type for VCCV

Attribute Name: control-channel-type

Attribute Type: bits (type-1|type-2|type-3)

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
                <control-channel-type>type-1</control-channel-type> <!--
operation="delete"-->
          </config>
       </default-tagged>
    </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     vccv cc-type (type-1|type-2|type-3)
```

Configure control verification type

Use this attribute to configure the Control-Verification supported by BFD for VCCV

Attribute Name: control-verification-type

Attribute Type: bits (type-5|type-1|type-2|type-3|type-4)

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
```

```
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <default-tagged>
          <config>
                <control-verification-type>type-5</control-verification-type> <!--
operation="delete"-->
          </config>
       </default-tagged>
    </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 vccv cv-type (type-5|type-1|type-2|type-3|type-4)
```

Configure enable tagged mode

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
```

```
      <pseudowire> <!-- operation="delete"-->
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
```

```
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
          <config>
             </enable-tagged-mode>
                </enable-control-word>
             </config>
          </tagged>
       </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> mode tagged control-word
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
```

```
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               </enable-control-word>
                  </enable-manual-pseudowire>
               </config>
            </tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged control-word manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
```

```
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               <tunnel-name>NAME</tunnel-name>
            </config>
         </tagged>
      </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> mode tagged tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               </enable-control-word>
            </config>
         </tagged>
      </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged control-word
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
```

```
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               </enable-manual-pseudowire>
            </config>
         </tagged>
      </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
```

```
        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>
      </config>
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        <tagged>
        <config>
          </enable-tagged-mode>
            </enable-control-word>
              <tunnel-name>NAME</tunnel-name>
                 </enable-manual-pseudowire>
              </config>
            </tagged>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
  </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged control-word tunnel-name NAME
  manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               </enable-control-word>
                  <tunnel-identifier>1</tunnel-identifier>
               </config>
            </tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               </enable-control-word>
                  <tunnel-identifier>1</tunnel-identifier>
                     </enable-manual-pseudowire>
                  </config>
               </tagged>
            </pseudowire>
         </pseudowires>
      </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-id <1-5000>
      manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               </enable-control-word>
                  <tunnel-policy>POLICYNAME</tunnel-policy>
               </config>
            </tagged>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-select-
      policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            </enable-tagged-mode>
               </enable-control-word>
                  <tunnel-policy>POLICYNAME</tunnel-policy>
                     </enable-manual-pseudowire>
                  </config>
               </tagged>
            </pseudowire>
```

```
        </pseudowires>
      </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode tagged (control-word|) tunnel-select-
  policy POLICYNAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
```

```
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <tagged>
          <config>
             <group-name>NAME</group-name>
                <group-identifier>1</group-identifier>
                   </enable-tagged-mode>
                      </enable-control-word>
                   </config>
                </tagged>
             </pseudowire>
          </pseudowires>
       </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
  (control-word|)
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
```

```
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-tagged-mode>
                     </enable-control-word>
                        </enable-manual-pseudowire>
                     </config>
                  </tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
  control-word manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-tagged-mode>
                     </enable-control-word>
                        <tunnel-name>NAME</tunnel-name>
                     </config>
                  </tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
      (control-word|) tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
```

```
        <tagged>
        <config>
            <group-name>NAME</group-name>
                <group-identifier>1</group-identifier>
                    </enable-tagged-mode>
                        </enable-control-word>
                            <tunnel-name>NAME</tunnel-name>
                                </enable-manual-pseudowire>
                            </config>
                        </tagged>
                    </pseudowire>
                </pseudowires>
            </vpws-instance>
        </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
  (control-word|) tunnel-name NAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-tagged-mode>
                     </enable-control-word>
                        <tunnel-identifier>1</tunnel-identifier>
                     </config>
                  </tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
   (control-word|) tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-tagged-mode>
                     </enable-control-word>
                        <tunnel-identifier>1</tunnel-identifier>
                           </enable-manual-pseudowire>
                        </config>
                     </tagged>
                  </pseudowire>
               </pseudowires>
            </vpws-instance>
```

```
        </network-instance>
      </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
      (control-word|) tunnel-id <1-5000> manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
```

```
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-tagged-mode>
                     </enable-control-word>
                        <tunnel-policy>POLICYNAME</tunnel-policy>
                     </config>
                  </tagged>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
  (control-word|) tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-tagged-mode>
                     </enable-control-word>
                        <tunnel-policy>POLICYNAME</tunnel-policy>
                           </enable-manual-pseudowire>
                        </config>
                     </tagged>
                  </pseudowire>
               </pseudowires>
            </vpws-instance>
         </network-instance>
      </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode tagged
      (control-word|) tunnel-select-policy POLICYNAME manual
```

Configure enable flow label

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
                </enable-flow-label><!-- operation="delete"-->
                <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
                </enable-interface-parameter-tlv><!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    flow-label (both|transmit|receive) interface-param-tlv
```

Configure tagged enable-static-flow-label

Use this attribute to enable static flow label for VPWS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
               </enable-flow-label><!-- operation="delete"-->
               <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
               </enable-static-flow-label><!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    flow-label (both|transmit|receive) static
```

Configure tagged flow-label-direction

Use this attribute to configure flow label direction to transmit,receive or both for VPWS Virtual Circuits.

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
                </enable-flow-label><!-- operation="delete"-->
                <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    flow-label (both|transmit|receive)
```

Configure tagged group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
```

```
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
                <group-name>NAME</group-name> <!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 group-name NAME
```

Configure tagged group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
```

```
          <tagged>
          <config>
                 <group-identifier>1</group-identifier> <!-- operation="delete"-->
          </config>
       </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    group-id <1-4294967295>
```

Configure tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
                </enable-control-word><!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
control-word
```

Configure tagged tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
                <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
tunnel-name NAME
```

Configure tagged tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
                <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    tunnel-select-policy POLICYNAME
```

Configure tagged tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
```

```
        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>
      </config>
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        <tagged>
        <config>
              <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
        </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 tunnel-id <1-5000>
```

Configure tagged enable-manual-pseudowire

This attribute is used to configure static pseudowire.

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>
      </config>
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
```

```
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
               </enable-manual-pseudowire><!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
manual-pseudowire
```

Configure tagged control-channel-type

Use this attribute to configure the Control-Channel type for VCCV

Attribute Name: control-channel-type

Attribute Type: bits (type-1|type-2|type-3)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
               <control-channel-type>type-1</control-channel-type> <!--
operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
```

```
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vccv cc-type (type-1|type-2|type-3)
```

Configure tagged control-verification-type

Use this attribute to configure the Control-Verification supported by BFD for VCCV

Attribute Name: control-verification-type

Attribute Type: bits (type-5|type-1|type-2|type-3|type-4)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <tagged>
         <config>
               <control-verification-type>type-5</control-verification-type> <!--
operation="delete"-->
         </config>
      </tagged>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vccv cv-type (type-5|type-1|type-2|type-3|type-4)
```

Configure enable raw mode

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire> <!-- operation="delete"-->
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            </enable-raw-mode>
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> mode raw
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            </enable-raw-mode>
               </enable-control-word>
            </config>
         </raw>
      </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME <1-4294967295> mode raw control-word
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            </enable-raw-mode>
               </enable-control-word>
                  </enable-manual-pseudowire>
               </config>
            </raw>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            </enable-raw-mode>
               </enable-control-word>
                  <tunnel-name>NAME</tunnel-name>
               </config>
            </raw>
         </pseudowire>
```

```
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
```

```
          <config>
             </enable-raw-mode>
                </enable-control-word>
                   <tunnel-name>NAME</tunnel-name>
                      </enable-manual-pseudowire>
                   </config>
                </raw>
             </pseudowire>
          </pseudowires>
       </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-name NAME
  manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
```

```
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
          <config>
             </enable-raw-mode>
                </enable-control-word>
                   <tunnel-identifier>1</tunnel-identifier>
                </config>
             </raw>
          </pseudowire>
       </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
```

```
        <instance-name>WORD</instance-name>
        <instance-type>vpws</instance-type>
      </config>
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        <raw>
        <config>
          </enable-raw-mode>
            </enable-control-word>
              <tunnel-identifier>1</tunnel-identifier>
                 </enable-manual-pseudowire>
              </config>
            </raw>
          </pseudowire>
        </pseudowires>
      </vpws-instance>
  </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-id <1-5000>
  manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            </enable-raw-mode>
               </enable-control-word>
                  <tunnel-policy>POLICYNAME</tunnel-policy>
               </config>
            </raw>
         </pseudowire>
      </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-select-policy
  POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            </enable-raw-mode>
               </enable-control-word>
                  <tunnel-policy>POLICYNAME</tunnel-policy>
                     </enable-manual-pseudowire>
                  </config>
               </raw>
            </pseudowire>
         </pseudowires>
      </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> mode raw (control-word|) tunnel-select-policy
      POLICYNAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-raw-mode>
                     </enable-control-word>
                  </config>
```

```
                </raw>
              </pseudowire>
           </pseudowires>
        </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
  (control-word|)
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
```

```
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
           <peer-address>VPWS_IP_ADDR_T</peer-address>
           <pseudowire-identifier>1</pseudowire-identifier>
        </config>
           <pseudowire-identifier>1</pseudowire-identifier>
        <raw>
        <config>
           <group-name>NAME</group-name>
              <group-identifier>1</group-identifier>
                 </enable-raw-mode>
                    </enable-control-word>
                       </enable-manual-pseudowire>
                    </config>
                 </raw>
              </pseudowire>
           </pseudowires>
        </vpws-instance>
     </network-instance>
  </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
  (control-word|) manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-raw-mode>
                     </enable-control-word>
                        <tunnel-name>NAME</tunnel-name>
                     </config>
                  </raw>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
      (control-word|) tunnel-name NAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-raw-mode>
                     </enable-control-word>
                        <tunnel-name>NAME</tunnel-name>
                           </enable-manual-pseudowire>
                        </config>
                     </raw>
```

```
                </pseudowire>
             </pseudowires>
          </vpws-instance>
       </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
  (control-word|) tunnel-name NAME manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
```

```
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-raw-mode>
                     </enable-control-word>
                        <tunnel-identifier>1</tunnel-identifier>
                     </config>
                  </raw>
               </pseudowire>
            </pseudowires>
         </vpws-instance>
      </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
  (control-word|) tunnel-id <1-5000>
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-raw-mode>
                     </enable-control-word>
                        <tunnel-identifier>1</tunnel-identifier>
                           </enable-manual-pseudowire>
                        </config>
                     </raw>
                  </pseudowire>
               </pseudowires>
            </vpws-instance>
         </network-instance>
      </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
      (control-word|) tunnel-id <1-5000> manual
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-raw-mode>
                     </enable-control-word>
                        <tunnel-policy>POLICYNAME</tunnel-policy>
                     </config>
                  </raw>
```

```
            </pseudowire>
          </pseudowires>
        </vpws-instance>
      </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
  (control-word|) tunnel-select-policy POLICYNAME
```

Configure pseudowires pseudowire-identifier

Use this attribute to assign pseudowire identifier to create an instance of an MPLS layer 2 virtual circuit. A Layer-2 MPLS Virtual Circuit instance may be bound to any interface on the router; however, only one interface may be bound to a Layer-2 circuit at a time.

Attribute Name: pseudowire-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
```

```
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
            <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
                  </enable-raw-mode>
                     </enable-control-word>
                        <tunnel-policy>POLICYNAME</tunnel-policy>
                           </enable-manual-pseudowire>
                        </config>
                     </raw>
                  </pseudowire>
               </pseudowires>
            </vpws-instance>
         </network-instance>
      </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME <1-4294967295> NAME (group-id <1-4294967295>|) mode raw
  (control-word|) tunnel-select-policy POLICYNAME manual
```

Configure raw enable-interface-parameter-tlv

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
```

```
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
          <config>
                 </enable-flow-label><!-- operation="delete"-->
                 <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
                 </enable-interface-parameter-tlv><!-- operation="delete"-->
          </config>
       </raw>
    </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     flow-label (both|transmit|receive) interface-param-tlv
```

Configure raw enable-static-flow-label

Use this attribute to enable static flow label for VPWS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
```

```
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
             <peer-address>VPWS_IP_ADDR_T</peer-address>
             <pseudowire-identifier>1</pseudowire-identifier>
          </config>
             <pseudowire-identifier>1</pseudowire-identifier>
          <raw>
          <config>
                 </enable-flow-label><!-- operation="delete"-->
                 <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
                 </enable-static-flow-label><!-- operation="delete"-->
          </config>
       </raw>
    </pseudowire>
    </pseudowires>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     flow-label (both|transmit|receive) static
```

Configure raw flow-label-direction

Use this attribute to configure flow label direction to transmit,receive or both for VPWS Virtual Circuits.

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowires>
       <pseudowire>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <config>
```

```
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
                </enable-flow-label><!-- operation="delete"-->
                <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    flow-label (both|transmit|receive)
```

Configure raw group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
                <group-name>NAME</group-name> <!-- operation="delete"-->
```

```
        </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
group-name NAME
```

Configure raw group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
               <group-identifier>1</group-identifier> <!-- operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
group-id <1-4294967295>
```

Configure raw enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
               </enable-control-word><!-- operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
control-word
```

Configure raw tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
               <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    tunnel-name NAME
```

Configure raw tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
```

```
        <instance-type>vpws</instance-type>
      </config>
        <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
        <peer-address>VPWS_IP_ADDR_T</peer-address>
        <config>
          <peer-address>VPWS_IP_ADDR_T</peer-address>
          <pseudowire-identifier>1</pseudowire-identifier>
        </config>
          <pseudowire-identifier>1</pseudowire-identifier>
        <raw>
        <config>
              <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
        </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 tunnel-select-policy POLICYNAME
```

Configure raw tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
```

```
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
               <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 tunnel-id <1-5000>
```

Configure raw enable-manual-pseudowire

This attribute is used to configure static pseudowire.

Attribute Name: enable-manual-pseudowire

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
               </enable-manual-pseudowire><!-- operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
```

```
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    manual-pseudowire
```

Configure raw control-channel-type

Use this attribute to configure the Control-Channel type for VCCV

Attribute Name: control-channel-type

Attribute Type: bits (type-1|type-2|type-3)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
               <control-channel-type>type-1</control-channel-type> <!--
operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vccv cc-type (type-1|type-2|type-3)
```

Configure raw control-verification-type

Use this attribute to configure the Control-Verification supported by BFD for VCCV

Attribute Name: control-verification-type

Attribute Type: bits (type-5|type-1|type-2|type-3|type-4)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowires>
      <pseudowire>
         <peer-address>VPWS_IP_ADDR_T</peer-address>
         <config>
            <peer-address>VPWS_IP_ADDR_T</peer-address>
            <pseudowire-identifier>1</pseudowire-identifier>
         </config>
            <pseudowire-identifier>1</pseudowire-identifier>
         <raw>
         <config>
               <control-verification-type>type-5</control-verification-type> <!--
operation="delete"-->
         </config>
      </raw>
   </pseudowire>
   </pseudowires>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vccv cv-type (type-5|type-1|type-2|type-3|type-4)
```

Configure attachment group identifier

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <service-tpid>dot1.q</service-tpid>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            </enable-control-word>
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200) control-word
```

Configure source attachment individual identifier

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <service-tpid>dot1.q</service-tpid>
            </enable-control-word>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-name>NAME</tunnel-name>
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200) control-word tunnel-name NAME
```

Configure target attachment individual identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <service-tpid>dot1.q</service-tpid>
            </enable-control-word>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-identifier>1</tunnel-identifier>
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200) control-word tunnel-id <1-5000>
```

Configure pseudowire-fec129 tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <service-tpid>dot1.q</service-tpid>
            </enable-control-word>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-policy>POLICYNAME</tunnel-policy>
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200) control-word tunnel-select-policy POLICYNAME
```

Configure pseudowire-fec129 enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             <group-name>NAME</group-name>
             <service-tpid>dot1.q</service-tpid>
             <group-identifier>1</group-identifier>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             </enable-control-word>
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME service-
      tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word
```

Configure pseudowire-fec129 tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <group-name>NAME</group-name>
            <service-tpid>dot1.q</service-tpid>
            <group-identifier>1</group-identifier>
            </enable-control-word>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
```

```
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-name>NAME</tunnel-name>
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME service-
  tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
  name NAME
```

Configure pseudowire-fec129 tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
```

```
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             <group-name>NAME</group-name>
             <service-tpid>dot1.q</service-tpid>
             <group-identifier>1</group-identifier>
             </enable-control-word>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             <tunnel-identifier>1</tunnel-identifier>
       </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME service-
  tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
  id <1-5000>
```

Configure pseudowire-fec129 tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             <group-name>NAME</group-name>
             <service-tpid>dot1.q</service-tpid>
             <group-identifier>1</group-identifier>
             </enable-control-word>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             <tunnel-policy>POLICYNAME</tunnel-policy>
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME service-
      tpid (dot1.q|dot1.ad|0x9100|0x9200) group-id <1-4294967295> control-word tunnel-
      select-policy POLICYNAME
```

Configure pseudowire-fec129 group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             <group-name>NAME</group-name> <!-- operation="delete"-->
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME
```

Configure pseudowire-fec129 group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
```

```
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             <group-identifier>1</group-identifier> <!-- operation="delete"-->
       </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-id <1-4294967295>
```

Configure pseudowire-fec129 enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
```

```
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
             </enable-control-word><!-- operation="delete"-->
       </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word
```

Configure pseudowire-fec129 service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
```

```
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure pseudowire-fec129 tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
      </pseudowire-fec129>
```

```
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-name NAME
```

Configure pseudowire-fec129 tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-select-policy
  POLICYNAME
```

Configure pseudowire-fec129 tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
      </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-id <1-5000>
```

Configure tagged enable-tagged-mode

This attribute is used to enable tagged mode of pseudowire. This can be enabled at creation time

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                </enable-control-word>
                </enable-tagged-mode>
          </config>
      </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word
```

Configure tagged tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                </enable-control-word>
                </enable-tagged-mode>
                <tunnel-name>NAME</tunnel-name>
          </config>
       </tagged>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
```

```
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word tunnel-name
      NAME
```

Configure tagged tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                </enable-control-word>
                </enable-tagged-mode>
```

```
                <tunnel-identifier>1</tunnel-identifier>
          </config>
       </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word tunnel-id
  <1-5000>
```

Configure tagged tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
```

```
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <tagged>
         <config>
               </enable-control-word>
               </enable-tagged-mode>
               <tunnel-policy>POLICYNAME</tunnel-policy>
         </config>
      </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word tunnel-
  select-policy POLICYNAME
```

Configure tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
```

```
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                 <group-name>NAME</group-name>
                 <group-identifier>1</group-identifier>
                 </enable-tagged-mode>
                 </enable-control-word>
          </config>
       </tagged>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
  <1-4294967295> control-word
```

Configure tagged tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                <group-name>NAME</group-name>
                <group-identifier>1</group-identifier>
                </enable-tagged-mode>
                </enable-control-word>
                <tunnel-name>NAME</tunnel-name>
          </config>
      </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
      <1-4294967295> control-word tunnel-name NAME
```

Configure tagged tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <tagged>
         <config>
               <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
               </enable-tagged-mode>
```

```
                </enable-control-word>
                <tunnel-identifier>1</tunnel-identifier>
            </config>
        </tagged>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
  <1-4294967295> control-word tunnel-id <1-5000>
```

Configure tagged tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-tagged-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
        <instance-name>NAME</instance-name>
        <config>
            <instance-name>WORD</instance-name>
            <instance-type>vpws</instance-type>
        </config>
            <instance-type>vpws</instance-type>
        <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
        <pseudowire-fec129>
            <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
```

```
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                 <group-name>NAME</group-name>
                 <group-identifier>1</group-identifier>
                 </enable-tagged-mode>
                 </enable-control-word>
                 <tunnel-policy>POLICYNAME</tunnel-policy>
          </config>
       </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
      <1-4294967295> control-word tunnel-select-policy POLICYNAME
```

Configure tagged group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                 <group-name>NAME</group-name> <!-- operation="delete"-->
          </config>
       </tagged>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME
```

Configure tagged group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
```

```
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                 <group-identifier>1</group-identifier> <!-- operation="delete"-->
          </config>
       </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-id <1-4294967295>
```

Configure tagged enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
```

```
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <tagged>
         <config>
               </enable-control-word><!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word
```

Configure tagged service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
```

```
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
          </config>
       </tagged>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure tagged tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
```

```
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <tagged>
         <config>
               <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
         </config>
      </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-name NAME
```

Configure tagged tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
```

```
            <peer-address>A.B.C.D</peer-address>
          <tagged>
          <config>
                <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
          </config>
       </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-select-policy
  POLICYNAME
```

Configure tagged tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <tagged>
```

```
          <config>
                <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
          </config>
       </tagged>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-id <1-5000>
```

Configure raw enable-raw-mode

This attribute is used to enable raw mode of pseudowire. This can be enabled at creation time

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
```

```
                </enable-control-word>
                </enable-raw-mode>
          </config>
       </raw>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word mode raw
```

Configure raw tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
```

```
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <raw>
         <config>
               </enable-control-word>
               </enable-raw-mode>
               <tunnel-name>NAME</tunnel-name>
         </config>
      </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word mode raw
  tunnel-name NAME
```

Configure raw tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
```

```
              <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
              <attachment-group-identifier>NAME</attachment-group-identifier>
              <peer-address>A.B.C.D</peer-address>
           </config>
              <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
              <attachment-group-identifier>NAME</attachment-group-identifier>
              <peer-address>A.B.C.D</peer-address>
           <raw>
           <config>
                 </enable-control-word>
                 </enable-raw-mode>
                 <tunnel-identifier>1</tunnel-identifier>
           </config>
        </raw>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word mode raw
  tunnel-id <1-5000>
```

Configure raw tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
```

```
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                </enable-control-word>
                </enable-raw-mode>
                <tunnel-policy>POLICYNAME</tunnel-policy>
          </config>
       </raw>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word mode raw
  tunnel-select-policy POLICYNAME
```

Configure raw enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                <group-name>NAME</group-name>
                <group-identifier>1</group-identifier>
                </enable-raw-mode>
                </enable-control-word>
          </config>
      </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
      <1-4294967295> mode raw control-word
```

Configure raw tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <raw>
         <config>
               <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
               </enable-raw-mode>
               </enable-control-word>
               <tunnel-name>NAME</tunnel-name>
         </config>
      </raw>
   </pseudowire-fec129>
```

```
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
      <1-4294967295> mode raw control-word tunnel-name NAME
```

Configure raw tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
```

```
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <raw>
         <config>
               <group-name>NAME</group-name>
               <group-identifier>1</group-identifier>
               </enable-raw-mode>
               </enable-control-word>
               <tunnel-identifier>1</tunnel-identifier>
         </config>
      </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
  <1-4294967295> mode raw control-word tunnel-id <1-5000>
```

Configure raw tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Attribute Name: enable-raw-mode

Attribute Type: empty

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                <group-name>NAME</group-name>
                <group-identifier>1</group-identifier>
                </enable-raw-mode>
                </enable-control-word>
                <tunnel-policy>POLICYNAME</tunnel-policy>
          </config>
      </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME group-id
      <1-4294967295> mode raw control-word tunnel-select-policy POLICYNAME
```

Configure raw group-name

Use this attribute to create a group name with default available group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                <group-name>NAME</group-name> <!-- operation="delete"-->
          </config>
       </raw>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-name NAME
```

Configure raw group-identifier

Use this attribute to create a group with specific group-identifier for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: group-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                <group-identifier>1</group-identifier> <!-- operation="delete"-->
          </config>
      </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME group-id <1-4294967295>
```

Configure raw enable-control-word

Use this attribute to enable control word for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: enable-control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
```

```
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                 </enable-control-word><!-- operation="delete"-->
          </config>
       </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME control-word
```

Configure raw service-tpid

Use this attribute to specify tunneling ethertype to be used for an instance of an MPLS layer 2 virtual circuit

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: service-tpid

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
```

```
       </config>
          <instance-type>vpws</instance-type>
       <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
       <pseudowire-fec129>
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                <service-tpid>dot1.q</service-tpid> <!-- operation="delete"-->
          </config>
       </raw>
    </pseudowire-fec129>
    </vpws-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME service-tpid
      (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure raw tunnel-name

Use this attribute to specificy the transport tunnel-name to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>NAME</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpws</instance-type>
       </config>
          <instance-type>vpws</instance-type>
```

```
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
         <config>
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
            <attachment-group-identifier>NAME</attachment-group-identifier>
            <peer-address>A.B.C.D</peer-address>
         <raw>
         <config>
               <tunnel-name>NAME</tunnel-name> <!-- operation="delete"-->
         </config>
      </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-name NAME
```

Configure raw tunnel-policy

Use this attribute to specificy transport tunnel-policy to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
```

```
          <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                 <tunnel-policy>POLICYNAME</tunnel-policy> <!-- operation="delete"-->
          </config>
       </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-select-policy
      POLICYNAME
```

Configure raw tunnel-identifier

Use this attribute to specificy the static tunnel-identifier to be used for MPLS Layer-2 Virtual Circuit.

This command is supported when following feature are enabled Generic FEC129 Feature

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>NAME</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpws</instance-type>
      </config>
         <instance-type>vpws</instance-type>
      <vpws-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
      <pseudowire-fec129>
         <target-attachment-individual-identifier>NAME</target-attachment-individual-
identifier>
```

```
          <config>
             <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
             <attachment-group-identifier>NAME</attachment-group-identifier>
             <peer-address>A.B.C.D</peer-address>
          <raw>
          <config>
                 <tunnel-identifier>1</tunnel-identifier> <!-- operation="delete"-->
          </config>
       </raw>
   </pseudowire-fec129>
   </vpws-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls l2-circuit NAME A.B.C.D agi NAME saii NAME taii NAME tunnel-id <1-5000>
```

Configure service template

This attribute is used to configure service-template for vc-mode

Attribute Name: service-template

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (standby|revertive)

Netconf edit-config payload

```
   <vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <pseudowire-modes>
   <pseudowire-mode>
      <service-template>WORD</service-template>
      <config>
         <service-template>NAME</service-template>
         <mode>standby</mode>
      </config>
   </pseudowire-mode>
```

```
</pseudowire-modes>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
vc-mode (standby|revertive) service-template NAME
```

Configure enable

This attribute is used to enable VPWS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpws-access>
<config>
      </enable>
</config>
</vpws-access>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
access-if-vpws
```

Configure revertive timer

This attribute is used to configure the vpws vc revertive timer. Default value is 0

This command is supported when following feature are enabled Subinterface feature

Attribute Name: revertive-timer

Attribute Type: uint16

Attribute Range: 0-3600

Attribute Name: enable-revertive-mode

Attribute Type: empty

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpws-access>
<config>
       </enable-revertive-mode><!-- operation="delete"-->
       <revertive-timer>0</revertive-timer> <!-- operation="delete"-->
</config>
</vpws-access>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
vc-mode revertive (timer <0-3600>|)
```

Configure mac withdrawal send on vpws vc switchover

This attribute is used to configure mac withdrawal on vpws vc switchover

This command is supported when following feature are enabled Subinterface feature

Attribute Name: mac-withdrawal-send-on-vpws-vc-switchover

Attribute Type: empty

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpws-access>
<config>
       </mac-withdrawal-send-on-vpws-vc-switchover><!-- operation="delete"-->
</config>
</vpws-access>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
mac-withdrawal flush-on-vpws-vc-switchover
```

Configure vpws name

This attribute uniquely identifies a VPWS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: vpws-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpws-access>
<bindings>
<binding> <!-- operation="delete"-->
   <vpws-name>NAME</vpws-name>
   <config>
      <vpws-name>WORD</vpws-name>
      <pseudowire-link-mode>primary</pseudowire-link-mode>
   </config>
</binding>
</bindings>
</vpws-access>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
 mpls-l2-circuit NAME ((primary|secondary)|)
```

Configure pseudowire name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<service-template-mappings>
<service-template-mapping>
   <pseudowire-name>NAME</pseudowire-name>
   <config>
      <pseudowire-name>WORD</pseudowire-name>
      <service-template-name>NAME</service-template-name>
      <pseudowire-link-mode>primary</pseudowire-link-mode>
   </config>
</service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
mpls-l2-circuit NAME service-template NAME ((primary|secondary)|)
```

Configure name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: cos-to-queue-profile-name

Attribute Type: string

Attribute Name: queue-to-cos-profile-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
```

```
    </config>
<service-template-mappings>
<service-template-mapping>
    <pseudowire-name>NAME</pseudowire-name>
    <config>
        <pseudowire-name>WORD</pseudowire-name>
        <service-template-name>NAME</service-template-name>
        <cos-to-queue-profile-name>NAME</cos-to-queue-profile-name>
        <queue-to-cos-profile-name>NAME</queue-to-cos-profile-name>
        <pseudowire-link-mode>primary</pseudowire-link-mode>
    </config>
</service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
mpls-l2-circuit NAME service-template NAME cos-to-queue NAME queue-color-to-cos
  NAME ((primary|secondary)|)
```

Configure service template name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: cos-to-queue-profile-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<service-template-mappings>
<service-template-mapping>
    <pseudowire-name>NAME</pseudowire-name>
    <config>
        <pseudowire-name>WORD</pseudowire-name>
        <service-template-name>NAME</service-template-name>
```

```
        <cos-to-queue-profile-name>NAME</cos-to-queue-profile-name>
        <pseudowire-link-mode>primary</pseudowire-link-mode>
    </config>
</service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
mpls-l2-circuit NAME service-template NAME cos-to-queue NAME ((primary|secondary)|)
```

Configure queue to cos profile name

Use this attribute to specify pseudowire name

Attribute Name: pseudowire-name

Attribute Type: string

Attribute Name: service-template-name

Attribute Type: string

Attribute Name: queue-to-cos-profile-name

Attribute Type: string

Attribute Name: pseudowire-link-mode

Attribute Type: enum (primary|secondary)

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<service-template-mappings>
<service-template-mapping>
    <pseudowire-name>NAME</pseudowire-name>
    <config>
        <pseudowire-name>WORD</pseudowire-name>
        <service-template-name>NAME</service-template-name>
        <queue-to-cos-profile-name>NAME</queue-to-cos-profile-name>
        <pseudowire-link-mode>primary</pseudowire-link-mode>
    </config>
</service-template-mapping>
</service-template-mappings>
</interface>
</interfaces>
</vpws>
```

Command Syntax

```
mpls-l2-circuit NAME service-template NAME queue-color-to-cos NAME
  ((primary|secondary)|)
```

Configure access interface name

This attribute is used to configure customer network interface for static VC fib entry

Attribute Name: access-interface-name

Attribute Type: string

Attribute Name: incoming-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: outgoing-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: provider-interface-name

Attribute Type: string

Netconf edit-config payload

```
<vpws xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpws">
<static-forwarding>
<forwarding-information-bases>
<forwarding-information-base>
   <nexthop-address>CML_IP_ADDR_T</nexthop-address>
   <config>
      <nexthop-address>CML_IP_ADDR_T</nexthop-address>
      <pseudowire-identifier>1</pseudowire-identifier>
      <incoming-label>16</incoming-label>
      <outgoing-label>16</outgoing-label>
      <provider-interface-name>IFNAME</provider-interface-name>
   </config>
   <pseudowire-identifier>1</pseudowire-identifier>
   <access-interface-name>NAME</access-interface-name>
</forwarding-information-base>
</forwarding-information-bases>
</static-forwarding>
</vpws>
```

Command Syntax

```
mpls l2-circuit-fib-entry <1-4294967295> <16-15999> <16-15999> (A.B.C.D|X:X::X:X)
  IFNAME NAME
```

clear mpls l2-circuit NAME statistics

Attribute Name: pseudowire-name

Attribute Type: string

Netconf RPC payload

```
       <clear-mpls-l2-circuit-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-l2vpn-vpws">
       <pseudowire-name>NAME</pseudowire-name>
       </clear-mpls-l2-circuit-statistics>
```

Command Syntax

```
    clear mpls l2-circuit NAME statistics
```

clear mpls l2-circuit NAME statistics (access-port|network-port)

Attribute Name: port-pseudowire-name

Attribute Type: string

Attribute Name: port-type

Attribute Type: enum (access-port|network-port)

Default Value: network-port

Netconf RPC payload

```
       <clear-mpls-l2-circuit-port-statistics xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-l2vpn-vpws">
       <port-pseudowire-name>NAME</port-pseudowire-name>
       <port-type>network-port</port-type>
       </clear-mpls-l2-circuit-port-statistics>
```

Command Syntax

```
    clear mpls l2-circuit NAME statistics (access-port|network-port)
```

vc-switchover NAME NAME

Attribute Name: primary-pseudowire

Attribute Type: string

Attribute Name: secondary-pseudowire

Attribute Type: string

Netconf RPC payload

```
       <pseudowire-manual-switchover xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
l2vpn-vpws">
       <primary-pseudowire>NAME</primary-pseudowire>
       <secondary-pseudowire>NAME</secondary-pseudowire>
       </pseudowire-manual-switchover>
```

Command Syntax

```
    vc-switchover NAME NAME
```

IPI-SEGMENT-ROUTING

Configure enable

Enable segment routing

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<config>
   </enable>
</config>
</segment-routing>
```

Command Syntax

```
segment-routing
```

Configure flex algo enable

Enable flexible algorithm for segment routing polices

Attribute Name: flex-algo-enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<config>
   </flex-algo-enable><!-- operation="delete"-->
</config>
</segment-routing>
```

Command Syntax

```
capability flex-algo routing
```

Configure adj sid absolute

This attribute is used to configure Segment Route adjacency SID absolute value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: adj-sid-absolute

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
```

```
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<adjacency-segments>
<adjacency-segment>
   <adj-sid-proto>isis</adj-sid-proto>
   <config>
      <adj-sid-proto>isis</adj-sid-proto>
   </config>
      <adj-sid-absolute>16</adj-sid-absolute> <!-- operation="delete"-->
</adjacency-segment>
</adjacency-segments>
</interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
adjacency-sid (isis|ospf) absolute <16-1048575>
```

Configure adj sid index

This attribute is used to configure Segment Route adjacency SID index-value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: adj-sid-index

Attribute Type: uint32

Attribute Range: 0-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<adjacency-segments>
<adjacency-segment>
   <adj-sid-proto>isis</adj-sid-proto>
   <config>
      <adj-sid-proto>isis</adj-sid-proto>
   </config>
      <adj-sid-index>0</adj-sid-index> <!-- operation="delete"-->
</adjacency-segment>
</adjacency-segments>
</interface>
```

```
</interfaces>
</segment-routing>
```

Command Syntax

```
adjacency-sid (isis|ospf) index <0-1048575>
```

Configure sid absolute

This attribute is used to configure Segment Route Prefix SID absolute value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-absolute

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<prefix-segment-algorithms>
<prefix-segment-algorithm>
   <algorithm-num>spf</algorithm-num>
   <config>
      <algorithm-num>spf</algorithm-num>
      <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
      <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
   </config>
      <sid-absolute>16</sid-absolute> <!-- operation="delete"-->
</prefix-segment-algorithm>
</prefix-segment-algorithms>
</interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
prefix-sid absolute <16-1048575> ((explicit-null|no-php)|) ((n-flag-clear)|)
```

Configure sid index

This attribute is used to configure Segment Route Prefix SID index-value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-index

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<prefix-segment-algorithms>
<prefix-segment-algorithm>
   <algorithm-num>spf</algorithm-num>
   <config>
      <algorithm-num>spf</algorithm-num>
      <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
      <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
   </config>
      <sid-index>0</sid-index> <!-- operation="delete"-->
</prefix-segment-algorithm>
</prefix-segment-algorithms>
</interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
 prefix-sid index <0-1048575> ((explicit-null|no-php)|) ((n-flag-clear)|)
```

Configure name

This attribute is used to configure Segment Route Prefix SID absolute value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-absolute

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<prefix-segment-algorithms>
<prefix-segment-algorithm>
   <algorithm-num>spf</algorithm-num>
   <config>
      <algorithm-num>spf</algorithm-num>
      <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
      <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
   </config>
      <sid-absolute>16</sid-absolute> <!-- operation="delete"-->
</prefix-segment-algorithm>
</prefix-segment-algorithms>
</interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
prefix-sid algorithm-num (spf|strict-spf) absolute <16-1048575> ((explicit-null|no-
  php)|) ((n-flag-clear)|)
```

Configure algorithm num

This attribute is used to configure Segment Route Prefix SID index-value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-index

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: exp-null

Attribute Type: enum (explicit-null|no-php)

Attribute Name: n-flag-clear

Attribute Type: enum (n-flag-clear)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
```

```
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<prefix-segment-algorithms>
<prefix-segment-algorithm>
   <algorithm-num>spf</algorithm-num>
   <config>
      <algorithm-num>spf</algorithm-num>
      <exp-null>explicit-null</exp-null> <!-- operation="delete"-->
      <n-flag-clear>n-flag-clear</n-flag-clear> <!-- operation="delete"-->
   </config>
      <sid-index>0</sid-index> <!-- operation="delete"-->
</prefix-segment-algorithm>
</prefix-segment-algorithms>
</interface>
</interfaces>
</segment-routing>
```

Command Syntax

```
prefix-sid algorithm-num (spf|strict-spf) index <0-1048575> ((explicit-null|no-
  php)|) ((n-flag-clear)|)
```

Configure enable preference

preference for segment routing label over LDP

This command is supported when following feature are enabled sr mpls feature

Attribute Name: enable-preference

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<sr-prefer-over-ldp>
<config>
   </enable-preference><!-- operation="delete"-->
</config>
</sr-prefer-over-ldp>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
mpls sr-prefer
```

Configure mapping-server enable

To enable mapping server configuration

This command is supported when following feature are enabled sr mpls feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<bindings>
<mapping-server>
<config> <!-- operation="delete"-->
   </enable>
</config>
</mapping-server>
</bindings>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
 mapping-server
```

Configure preference

preference for segment routing mapping server

This command is supported when following feature are enabled sr mpls feature

Attribute Name: preference

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<bindings>
<mapping-server>
<srms-preferenece>
<config>
   <preference>1</preference> <!-- operation="delete"-->
</config>
</srms-preferenece>
</mapping-server>
</bindings>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
srms preference <1-255>
```

Configure prefix-sid-map-ipv4 enable

To enable ipv4 mapping server configuration

This command is supported when following feature are enabled sr mpls feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<bindings>
<mapping-server>
<prefix-sid-map-ipv4>
<config> <!-- operation="delete"-->
   </enable>
</config>
</prefix-sid-map-ipv4>
</mapping-server>
</bindings>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
prefix-sid-map address-family ipv4
```

Configure start address

connected prefix for prefix-sid

This command is supported when following feature are enabled sr mpls feature

Attribute Name: start-address

Attribute Type: string

Attribute Name: attached

Attribute Type: boolean

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<bindings>
<mapping-server>
<prefix-sid-map-ipv4>
<mapping-entries>
<mapping-entry> <!-- operation="delete"-->
   <start-sid>0</start-sid>
```

```
    <config>
       <start-sid>0</start-sid>
       <start-address>A.B.C.D/M</start-address>
       <attached>true</attached>
    </config>
    <start-address>A.B.C.D/M</start-address>
</mapping-entry>
</mapping-entries>
</prefix-sid-map-ipv4>
</mapping-server>
</bindings>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
A.B.C.D/M <0-1048575> attached
```

Configure start sid

connected prefix for prefix-sid

This command is supported when following feature are enabled sr mpls feature

Attribute Name: start-address

Attribute Type: string

Attribute Name: range

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: attached

Attribute Type: boolean

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<bindings>
<mapping-server>
<prefix-sid-map-ipv4>
<mapping-entries>
<mapping-entry> <!-- operation="delete"-->
    <start-sid>0</start-sid>
    <config>
       <start-sid>0</start-sid>
       <start-address>A.B.C.D/M</start-address>
       <range>1</range>
       <attached>true</attached>
    </config>
    <start-address>A.B.C.D/M</start-address>
</mapping-entry>
</mapping-entries>
```

```
</prefix-sid-map-ipv4>
</mapping-server>
</bindings>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
A.B.C.D/M <0-1048575> range <1-65535> (attached|)
```

Configure end

SRGB end range

This command is supported when following feature are enabled sr mpls feature

Attribute Name: end

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: start

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<global-block>
<config>
   <start>16</start>
   <end>16</end>
</config>
</global-block>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
global block <16-1048575> <16-1048575>
```

Configure start

End range for srlb-config

This command is supported when following feature are enabled sr mpls feature

Attribute Name: end

Attribute Type: uint32

Attribute Range: 16-1048575

Attribute Name: start

Attribute Type: uint32

Attribute Range: 16-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<sr-mpls>
<local-block>
<config>
   <start>16</start>
   <end>16</end>
</config>
</local-block>
</sr-mpls>
</segment-routing>
```

Command Syntax

```
local block <16-1048575> <16-1048575>
```

Configure traffic-engineering enable

Enable SR traffic engineering

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<config>
   </enable>
</config>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
traffic-engineering
```

Configure fast reroute enable

Enable fast reroute for traffic engineering polices

Attribute Name: fast-reroute-enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<config>
   </fast-reroute-enable><!-- operation="delete"-->
</config>
</traffic-engineering>
```

```
</segment-routing>
```

Command Syntax

```
policy-fast-reroute-enable
```

Configure list name

Segment-list name

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<attributes>
<segment-lists>
<segment-list> <!-- operation="delete"-->
   <list-name>WORD</list-name>
   <config>
      <list-name>WORD</list-name>
   </config>
</segment-list>
</segment-lists>
</attributes>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
segment-list WORD
```

Configure sid value

MPLS label value

This command is supported when following feature are enabled sr mpls feature

Attribute Name: sid-value

Attribute Type: uint32

Attribute Range: 0-1048575

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<attributes>
<segment-lists>
<segment-list>
   <list-name>WORD</list-name>
   <config>
      <list-name>WORD</list-name>
```

```
    </config>
<segments>
<segment>
    <type>segment-type-1</type>
    <config>
        <type>segment-type-1</type>
        <segment-index>1</segment-index>
    </config>
        <segment-index>1</segment-index>
    <segment-type-1>
    <config>
           <sid-value>0</sid-value>
    </config>
</segment-type-1>
</segment>
</segments>
</segment-list>
</segment-lists>
</attributes>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 index <1-65535> (segment-type-1) <0-1048575>
```

Configure prefix

SRV6 Prefix

This command is supported when following feature are enabled srv6 feature

Attribute Name: prefix

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<attributes>
<segment-lists>
<segment-list>
    <list-name>WORD</list-name>
    <config>
        <list-name>WORD</list-name>
    </config>
<segments>
<segment-v6>
    <type>segment-type-2</type>
    <config>
        <type>segment-type-2</type>
        <segment-index>1</segment-index>
    </config>
```

```
        <segment-index>1</segment-index>
      <segment-type-2>
      <config>
             <prefix>X:X::X:X</prefix>
      </config>
  </segment-type-2>
  </segment-v6>
  </segments>
  </segment-list>
  </segment-lists>
  </attributes>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
index <1-65535> (segment-type-2) X:X::X:X
```

Configure end point

Policy end point IP address

Attribute Name: end-point

Attribute Type: inet:ip-address

Netconf edit-config payload

```
  <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
  <policies>
  <policy>
      <name>WORD</name>
      <config>
          <name>WORD</name>
      </config>
  <policy-keys>
  <policy-key> <!-- operation="delete"-->
      <end-point>CML_IP_ADDR_T</end-point>
      <config>
          <end-point>CML_IP_ADDR_T</end-point>
          <color>1</color>
      </config>
          <color>1</color>
  </policy-key>
  </policy-keys>
  </policy>
  </policies>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
color <1-4294967295> end-point (A.B.C.D|X:X::X:X)
```

Configure policies name

User friendly name of the SR Policy

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
policy WORD
```

Configure admin state

SR policy administrative state, true for enabled, false for disabled

Attribute Name: admin-state

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </admin-state><!-- operation="delete"-->
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
admin-state down
```

Configure explicit null

To set explicit null behaviour for the policy

Attribute Name: explicit-null

Attribute Type: enum (ipv4)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <explicit-null>ipv4</explicit-null> <!-- operation="delete"-->
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 explicit-null (ipv4)
```

Configure cspf retry limit

Limit on the number of times a dynamic candidate path will retry to calculate segment-list

Attribute Name: cspf-retry-limit

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <cspf-retry-limit>1</cspf-retry-limit> <!-- operation="delete"-->
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 cspf-retry-limit <1-65535>
```

Configure cspf retry interval

Interval between two successive retries for calculating segment list of a dynamic candidate path using CSPF

Attribute Name: cspf-retry-interval

Attribute Type: uint32

Attribute Range: 1-600

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <cspf-retry-interval>1</cspf-retry-interval> <!-- operation="delete"-->
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 cspf-retry-interval <1-600>
```

Configure entropy erld

Setting ERLD to enable Entropy capability (only applicable for explicit policy)

Attribute Name: entropy-erld

Attribute Type: uint8

Attribute Range: 3-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <entropy-erld>3</entropy-erld> <!-- operation="delete"-->
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
entropy-erld <3-255>
```

Configure bsid value

configurable value for static binding sid

Attribute Name: bsid-value

Attribute Type: uint32

Attribute Range: 16-15999

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <bsid-value>16</bsid-value> <!-- operation="delete"-->
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
binding-sid mpls label <16-15999>
```

Configure discriminator

Candidate path distinguisher, it’s taken as a unique identifier for a Local candidate path

Attribute Name: discriminator

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path> <!-- operation="delete"-->
   <originator>WORD</originator>
```

```
    <config>
        <originator>WORD</originator>
        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
    </config>
        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 candidate-path <1-65535>
```

Configure protocol origin

Candidate path preference

Attribute Name: preference

Attribute Type: uint32

Default Value: 100

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<candidate-paths>
<candidate-path>
    <originator>WORD</originator>
    <config>
        <originator>WORD</originator>
        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
    </config>
        <protocol-origin>pcep</protocol-origin>
        <discriminator>1</discriminator>
        <preference>1</preference> <!-- operation="delete"-->
</candidate-path>
</candidate-paths>
</policy>
```

```
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
preference <1-65535>
```

Configure pcep

Dynamic candidate path properties of PCEP

Attribute Name: pcep

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <config>
         </pcep><!-- operation="delete"-->
   </config>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
dynamic-path pcep
```

Configure isis

Dynamic candidate path properties of ISIS

Attribute Name: isis

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <config>
         <isis>WORD</isis> <!-- operation="delete"-->
   </config>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
dynamic-path isis (WORD|)
```

Configure ospf

Dynamic candidate path properties of OSPF with process-id

Attribute Name: ospf

Attribute Type: int32

Attribute Range: 0-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <config>
         <ospf>0</ospf> <!-- operation="delete"-->
   </config>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
dynamic-path ospf <0-65535>
```

Configure ospf empty

Dynamic candidate path properties of OSPF without process-id

Attribute Name: ospf-empty

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <config>
          </ospf-empty><!-- operation="delete"-->
   </config>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 dynamic-path ospf
```

Configure originator

Enable constraints for the candidate path

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>local</protocol-origin>
```

```
        <discriminator>1</discriminator>
      <dynamic>
      <constraints>
      <config>
             </enable>
      </config>
   </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </policy>
   </policies>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
 constraints
```

Configure constraints enable

Enable constraints for the candidate path

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
   <policies>
   <policy>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <candidate-paths>
   <candidate-path>
      <originator>WORD</originator>
      <config>
         <originator>WORD</originator>
         <protocol-origin>local</protocol-origin>
         <discriminator>1</discriminator>
      </config>
         <protocol-origin>pcep</protocol-origin>
         <discriminator>1</discriminator>
      <dynamic>
      <constraints>
      <config>
             </enable>
      </config>
   </constraints>
```

```
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
enable
```

Configure hop limit

Use this attribute to specify a limit of hops for candidate-path

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <config>
         <hop-limit>1</hop-limit> <!-- operation="delete"-->
   </config>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
```

```
</segment-routing>
```

Command Syntax

```
 hop-limit <1-32>
```

Configure metric type

Metric type can be IGP or TE

Attribute Name: metric-type

Attribute Type: enum (igp|te|latency)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <bounds>
   <bound> <!-- operation="delete"-->
      <metric-type>igp</metric-type>
      <config>
         <metric-type>igp</metric-type>
      </config>
   </bound>
</bounds>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency)
```

Configure bound

Path is invalid if its metric exceeds this value, If no value is specified

Attribute Name: bound

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <bounds>
   <bound>
      <metric-type>igp</metric-type>
      <config>
         <metric-type>igp</metric-type>
      </config>
         <bound>1</bound> <!-- operation="delete"-->
   </bound>
</bounds>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency) bound <1-4294967295>
```

Configure admin group name

admin group name

Attribute Name: admin-group-name

Attribute Type: string

Attribute Name: affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <admin-groups>
   <admin-group> <!-- operation="delete"-->
      <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
      <config>
         <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
         <affinity-type>exclude-any</affinity-type>
      </config>
   </admin-group>
</admin-groups>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
```

```
   </segment-routing>
```

Command Syntax

```
    affinity (exclude-any|include-any|include-all) ADMIN-GROUP-NAME
```

Configure extended admin group name

Extended admin group name

Attribute Name: extended-admin-group-name

Attribute Type: string

Attribute Name: extended-admin-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
   <policies>
   <policy>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <candidate-paths>
   <candidate-path>
      <originator>WORD</originator>
      <config>
         <originator>WORD</originator>
         <protocol-origin>local</protocol-origin>
         <discriminator>1</discriminator>
      </config>
         <protocol-origin>local</protocol-origin>
         <discriminator>1</discriminator>
      <dynamic>
      <constraints>
      <extended-admin-groups>
      <extended-admin-group> <!-- operation="delete"-->
         <extended-admin-group-name>EXTENDED-ADMIN-GROUP-NAME</extended-admin-group-
name>
         <config>
            <extended-admin-group-name>EXTENDED-ADMIN-GROUP-NAME</extended-admin-
group-name>
            <extended-admin-affinity-type>exclude-any</extended-admin-affinity-type>
         </config>
      </extended-admin-group>
   </extended-admin-groups>
   </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
```

```
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
extended-affinity (exclude-any|include-any|include-all) EXTENDED-ADMIN-GROUP-NAME
```

Configure srlg group name

SRLG group name

Attribute Name: srlg-group-name

Attribute Type: string

Attribute Name: srlg-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <srlg-groups>
   <srlg-group> <!-- operation="delete"-->
      <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
      <config>
         <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
         <srlg-affinity-type>exclude-any</srlg-affinity-type>
      </config>
   </srlg-group>
</srlg-groups>
</constraints>
</dynamic>
```

```
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
srlg-affinity (exclude-any|include-any|include-all) SRLG-GROUP-NAME
```

Configure address

Hop address which needs to be included in the LSP path

Attribute Name: address

Attribute Type: inet:ip-address

Attribute Name: type

Attribute Type: enum (loose|strict)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <ip>
   <include-hop> <!-- operation="delete"-->
      <address>A.B.C.D/X:X::X:X</address>
      <config>
         <address>A.B.C.D/X:X::X:X</address>
         <type>loose</type>
      </config>
   </include-hop>
</ip>
```

```
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
A.B.C.D/X:X::X:X (loose|strict|)
```

Configure ihaf address

IP Hop address which needs to be included/excluded in the LSP path

Attribute Name: ihaf-address

Attribute Type: inet:ip-address

Attribute Name: ihaf-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <ip-address-filters>
   <ip-address-filter> <!-- operation="delete"-->
      <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
      <config>
         <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
         <ihaf-affinity-type>exclude-any</ihaf-affinity-type>
      </config>
```

```
    </ip-address-filter>
</ip-address-filters>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
A.B.C.D/X:X::X:X (exclude-any|include-any|include-all)
```

Configure segment-rule enable

Enable segment constraints for the dynamic candidate path

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<candidate-paths>
<candidate-path>
    <originator>WORD</originator>
    <config>
        <originator>WORD</originator>
        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
    </config>
        <protocol-origin>local</protocol-origin>
        <discriminator>1</discriminator>
    <dynamic>
    <constraints>
    <segment-rule>
    <config>
           </enable>
    </config>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>
```

```
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
segment-rule
```

Configure segment-rule enable

Enable segment constraints for the dynamic candidate path

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <segment-rule>
   <config>
          </enable>
   </config>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
enable
```

Configure dataplane type

SR policy dynamic candidate path’s data-plane type

Attribute Name: dataplane-type

Attribute Type: enum (mpls|srv6)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <segment-rule>
   <property>
   <config>
         <dataplane-type>mpls</dataplane-type> <!-- operation="delete"-->
   </config>
</property>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
dataplane (mpls|srv6)
```

Configure sid algorithm

Flexible Algorithm Number

Attribute Name: sid-algorithm

Attribute Type: uint32

Attribute Range: 128-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <segment-rule>
   <property>
   <config>
         <sid-algorithm>128</sid-algorithm> <!-- operation="delete"-->
   </config>
</property>
</segment-rule>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
sid-algorithm <128-255>
```

Configure protection type

SR policy dynamic candidate path's protection type

Attribute Name: protection-type

Attribute Type: enum (protected-only|protected-prefered|unprotected-only|unprotected-prefered)

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
   <policies>
   <policy>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <candidate-paths>
   <candidate-path>
      <originator>WORD</originator>
      <config>
         <originator>WORD</originator>
         <protocol-origin>local</protocol-origin>
         <discriminator>1</discriminator>
      </config>
         <protocol-origin>pcep</protocol-origin>
         <discriminator>1</discriminator>
      <dynamic>
      <constraints>
      <segment-rule>
      <property>
      <config>
            <protection-type>protected-only</protection-type> <!--
operation="delete"-->
      </config>
   </property>
   </segment-rule>
   </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </policy>
   </policies>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
    protection (protected-only|protected-prefered|unprotected-only|unprotected-
      prefered)
```

Configure sub id

Disjoint path sub-group id

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <disjoint-paths>
   <disjoint-path>
      <disjoint-type>link</disjoint-type>
      <config>
         <disjoint-type>link</disjoint-type>
         <group-id>1</group-id>
      </config>
         <group-id>1</group-id>
         <sub-id>1</sub-id>
   </disjoint-path>
</disjoint-paths>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
disjoint-path group-id <1-65535> type (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure group id

Disjoint path sub-group id

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>pcep</protocol-origin>
      <discriminator>1</discriminator>
   <dynamic>
   <constraints>
   <disjoint-paths>
   <disjoint-path>
      <disjoint-type>link</disjoint-type>
      <config>
         <disjoint-type>link</disjoint-type>
         <group-id>1</group-id>
      </config>
         <group-id>1</group-id>
         <sub-id>1</sub-id> <!-- operation="delete"-->
   </disjoint-path>
</disjoint-paths>
</constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</policy>
</policies>
```

```
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 <1-65535> (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure segment-lists list-name

Reference to segment-list name

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<candidate-paths>
<candidate-path>
   <originator>WORD</originator>
   <config>
      <originator>WORD</originator>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   </config>
      <protocol-origin>local</protocol-origin>
      <discriminator>1</discriminator>
   <explicit>
   <segment-lists>
   <segment-list> <!-- operation="delete"-->
      <list-name>WORD</list-name>
      <config>
         <list-name>WORD</list-name>
      </config>
   </segment-list>
</segment-lists>
</explicit>
</candidate-path>
</candidate-paths>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
explicit segment-list WORD
```

Configure pce lsp delegate

To delegate all the configured candidate path of policy to PCE controller

Attribute Name: pce-lsp-delegate

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<pce>
<config>
      </pce-lsp-delegate><!-- operation="delete"-->
</config>
</pce>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
pce lsp-delegate
```

Configure pce state report

To only report all the configured candidate path of policy to PCE controller

Attribute Name: pce-state-report

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<pce>
<config>
```

```
        </pce-state-report><!-- operation="delete"-->
    </config>
    </pce>
    </policy>
    </policies>
    </traffic-engineering>
    </segment-routing>
```

Command Syntax

```
pce state-report
```

Configure pce entity id

Entity Id of PCEP entity to which this policy should be queried/reported/delegated

Attribute Name: pce-entity-id

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
<policies>
<policy>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<pce>
<config>
       <pce-entity-id>1</pce-entity-id> <!-- operation="delete"-->
</config>
</pce>
</policy>
</policies>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
pce entity <1-255>
```

Configure srv6 enable

Enable segment routing v6

This command is supported when following feature are enabled srv6 feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<srv6>
<config>
   </enable>
</config>
</srv6>
</segment-routing>
```

Command Syntax

```
srv6
```

Configure locators enable

Enable segment routing v6 locator

This command is supported when following feature are enabled srv6 feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<srv6>
<locators>
<config>
   </enable>
</config>
</locators>
</srv6>
</segment-routing>
```

Command Syntax

```
locators
```

Configure locator name

Locator name

This command is supported when following feature are enabled srv6 feature

Attribute Name: locator-name

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<srv6>
<locators>
<locator> <!-- operation="delete"-->
   <locator-name>WORD</locator-name>
   <config>
```

```
        <locator-name>WORD</locator-name>
      </config>
   </locator>
   </locators>
   </srv6>
   </segment-routing>
```

Command Syntax

```
locator WORD
```

Configure locator prefix

Ipv6 Address for locator

This command is supported when following feature are enabled srv6 feature

Attribute Name: prefix

Attribute Type: string

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<srv6>
<locators>
<locator>
   <locator-name>WORD</locator-name>
   <config>
      <locator-name>WORD</locator-name>
   </config>
   <prefix>X:X::X:X/M</prefix> <!-- operation="delete"-->
</locator>
</locators>
</srv6>
</segment-routing>
```

Command Syntax

```
prefix X:X::X:X/M
```

Configure options

This attribute is used to enable/disable SR Policy debug logs

Attribute Name: options

Attribute Type: bits (policy|cp|pce|mpls|flexalgo|all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<debug>
<config>
   <options>policy</options> <!-- operation="delete"-->
</config>
```

```
</debug>
</segment-routing>
```

Command Syntax

```
debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)
```

debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (policy|cp|pce|mpls|flexalgo|all)

Netconf RPC payload

```
<sr-policy-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<terminal-debug-options>policy</terminal-debug-options>
</sr-policy-terminal-debug-on>
```

Command Syntax

```
debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)
```

no debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (policy|cp|pce|mpls|flexalgo|all)

Netconf RPC payload

```
<sr-policy-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<terminal-debug-options>policy</terminal-debug-options>
</sr-policy-terminal-debug-off>
```

Command Syntax

```
no debug sr-policy (policy|cp|pce|mpls|flexalgo|all|)
```

IPI-L2VPN-VPLS

Configure service template name

Specify Customer service template name to bind to this Attachment circuit

Attribute Name: service-template-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<attachment-circuit>
<service-template-mappings>
```

```
<service-template-mapping> <!-- operation="delete"-->
   <service-template-name>NAME</service-template-name>
   <config>
      <service-template-name>WORD</service-template-name>
      <vpls-name>WORD</vpls-name>
      <interface-name>WORD</interface-name>
   </config>
   <vpls-name>NAME</vpls-name>
   <interface-name>WORD</interface-name>
</service-template-mapping>
</service-template-mappings>
</attachment-circuit>
</vpls>
```

Command Syntax

```
mpls-vpls NAME service-template NAME
```

Configure admin status

Specify admin status for VPLS AC

Attribute Name: admin-status

Attribute Type: enum (down)

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<attachment-circuit>
<service-template-mappings>
<service-template-mapping>
   <service-template-name>NAME</service-template-name>
   <config>
      <service-template-name>WORD</service-template-name>
      <vpls-name>WORD</vpls-name>
      <interface-name>WORD</interface-name>
   </config>
   <vpls-name>NAME</vpls-name>
   <interface-name>WORD</interface-name>
   <admin-status>down</admin-status> <!-- operation="delete"-->
</service-template-mapping>
</service-template-mappings>
</attachment-circuit>
</vpls>
```

Command Syntax

```
ac-admin-status (down)
```

Configure attachment circuit description

Specify description of VPLS AC

Attribute Name: attachment-circuit-description

Attribute Type: string

Netconf edit-config payload

```
   <vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
   <attachment-circuit>
   <service-template-mappings>
   <service-template-mapping>
      <service-template-name>NAME</service-template-name>
      <config>
         <service-template-name>WORD</service-template-name>
         <vpls-name>WORD</vpls-name>
         <interface-name>WORD</interface-name>
      </config>
      <vpls-name>NAME</vpls-name>
      <interface-name>WORD</interface-name>
      <attachment-circuit-description>LINE</attachment-circuit-description> <!--
operation="delete"-->
   </service-template-mapping>
   </service-template-mappings>
   </attachment-circuit>
   </vpls>
```

Command Syntax

```
    ac-description LINE
```

Configure mac learning

Specify mac-learning for VPLS AC

Attribute Name: mac-learning

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
   <vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
   <attachment-circuit>
   <service-template-mappings>
   <service-template-mapping>
      <service-template-name>NAME</service-template-name>
      <config>
         <service-template-name>WORD</service-template-name>
         <vpls-name>WORD</vpls-name>
         <interface-name>WORD</interface-name>
      </config>
      <vpls-name>NAME</vpls-name>
      <interface-name>WORD</interface-name>
      <mac-learning>enable</mac-learning> <!-- operation="delete"-->
   </service-template-mapping>
   </service-template-mappings>
   </attachment-circuit>
```

```
</vpls>
```

Command Syntax

```
learning (enable|disable)
```

Configure split horizon

Specify split-horizon for VPLS

Attribute Name: split-horizon

Attribute Type: enum (network|access1|access2)

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<attachment-circuit>
<service-template-mappings>
<service-template-mapping>
   <service-template-name>NAME</service-template-name>
   <config>
      <service-template-name>WORD</service-template-name>
      <vpls-name>WORD</vpls-name>
      <interface-name>WORD</interface-name>
   </config>
   <vpls-name>NAME</vpls-name>
   <interface-name>WORD</interface-name>
   <split-horizon>network</split-horizon> <!-- operation="delete"-->
</service-template-mapping>
</service-template-mappings>
</attachment-circuit>
</vpls>
```

Command Syntax

```
split-horizon group (network|access1|access2)
```

Configure static mac address

Specify static-mac to be added on AC

Attribute Name: static-mac-address

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<attachment-circuit>
<service-template-mappings>
<service-template-mapping>
   <service-template-name>NAME</service-template-name>
   <config>
      <service-template-name>WORD</service-template-name>
      <vpls-name>WORD</vpls-name>
```

```
          <interface-name>WORD</interface-name>
       </config>
       <vpls-name>NAME</vpls-name>
       <interface-name>WORD</interface-name>
       <static-mac-address>XXXX.XXXX.XXXX</static-mac-address> <!-- operation="delete"-
->
    </service-template-mapping>
    </service-template-mappings>
    </attachment-circuit>
    </vpls>
```

Command Syntax

```
 static-mac XXXX.XXXX.XXXX
```

Configure profile name

Specify profile name for map profile

This command is supported when following feature are enabled QOS feature

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```
    <vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
    <attachment-circuit>
    <service-template-mappings>
    <service-template-mapping>
       <service-template-name>NAME</service-template-name>
       <config>
          <service-template-name>WORD</service-template-name>
          <vpls-name>WORD</vpls-name>
          <interface-name>WORD</interface-name>
       </config>
       <vpls-name>NAME</vpls-name>
       <interface-name>WORD</interface-name>
    <quality-of-service-profiles>
    <quality-of-service-profile> <!-- operation="delete"-->
       <profile-name>NAME</profile-name>
       <config>
          <profile-name>WORD</profile-name>
          <profile-type>cos-to-queue</profile-type>
       </config>
          <profile-type>cos-to-queue</profile-type>
    </quality-of-service-profile>
    </quality-of-service-profiles>
    </service-template-mapping>
    </service-template-mappings>
    </attachment-circuit>
    </vpls>
```

Command Syntax

```
vc-qos map-profile (cos-to-queue|queue-color-to-cos) NAME
```

Configure out label

Specify out going label for VPLS static forwarding

Attribute Name: out-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: out-interface-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<static-forwarding>
<vpls-entries>
<vpls-entry>
   <peer-address>A.B.C.D</peer-address>
   <config>
      <peer-address>A.B.C.D</peer-address>
      <vpls-identifier>1</vpls-identifier>
      <in-label>16</in-label>
      <out-interface-name>OUT-INTF</out-interface-name>
   </config>
   <vpls-identifier>1</vpls-identifier>
   <out-label>16</out-label>
</vpls-entry>
</vpls-entries>
</static-forwarding>
</vpls>
```

Command Syntax

```
vpls fib-entry <1-4294967295> peer A.B.C.D <16-15999> OUT-INTF <16-15999>
```

Configure vpls identifier

Specify out going label for VPLS static forwarding

Attribute Name: out-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: in-label

Attribute Type: uint32

Attribute Range: 16-15999

Attribute Name: out-interface-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<static-forwarding>
<hierarchical-vpls-entries>
<hierarchical-vpls-entry>
   <spoke-pseudowire-name>VC-NAME</spoke-pseudowire-name>
   <config>
      <spoke-pseudowire-name>WORD</spoke-pseudowire-name>
      <vpls-identifier>1</vpls-identifier>
      <in-label>16</in-label>
      <out-interface-name>OUT-INTF</out-interface-name>
   </config>
   <vpls-identifier>1</vpls-identifier>
   <out-label>16</out-label>
</hierarchical-vpls-entry>
</hierarchical-vpls-entries>
</static-forwarding>
</vpls>
```

Command Syntax

```
 vpls fib-entry <1-4294967295> spoke-vc WORD <16-15999> OUT-INTF <16-15999>
```

Configure detect interval

Mac move detection interval

Attribute Name: detect-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 5-300

Attribute Name: detect-time

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1000

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<mac-move-global>
<config>
   <detect-time>1</detect-time> <!-- operation="delete"-->
   <detect-interval>5</detect-interval> <!-- operation="delete"-->
</config>
```

```
</mac-move-global>
</vpls>
```

Command Syntax

```
vpls mac-move enable detect <1-1000> <5-300>
```

Configure mac-limit-profiles profile-name

VPLS instance mac limit config

This command is supported when following feature are enabled Vpls feature

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<mac-limit-profiles>
<mac-limit-profile> <!-- operation="delete"-->
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
</mac-limit-profile>
</mac-limit-profiles>
</vpls>
```

Command Syntax

```
vpls mac-limit-profile PROFILENAME
```

Configure learning limit

No of mac limit supported

This command is supported when following feature are enabled Vpls feature

Attribute Name: learning-limit

Attribute Type: uint16

Default Value: 32767

Attribute Range: 1-32767

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<mac-limit-profiles>
<mac-limit-profile>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
   <learning-limit>1</learning-limit> <!-- operation="delete"-->
```

```
</mac-limit-profile>
</mac-limit-profiles>
</vpls>
```

Command Syntax

```
learning-limit <1-32767>
```

Configure action

Mac limit action

This command is supported when following feature are enabled Vpls feature

Attribute Name: action

Attribute Type: enum (log-only|log-errdisable)

Default Value: log-only

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<mac-limit-profiles>
<mac-limit-profile>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
   <action>log-only</action> <!-- operation="delete"-->
</mac-limit-profile>
</mac-limit-profiles>
</vpls>
```

Command Syntax

```
action (log-only|log-errdisable)
```

Configure high watermark

High watermark for logging

This command is supported when following feature are enabled Vpls feature

Attribute Name: high-watermark

Attribute Type: uint16

Default Value: 90

Attribute Range: 1-100

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<mac-limit-profiles>
<mac-limit-profile>
   <profile-name>PROFILENAME</profile-name>
   <config>
```

```
        <profile-name>PROFILENAME</profile-name>
      </config>
      <high-watermark>1</high-watermark> <!-- operation="delete"-->
   </mac-limit-profile>
   </mac-limit-profiles>
   </vpls>
```

Command Syntax

```
high-watermark <1-100>
```

Configure low watermark

Low watermark for logging

This command is supported when following feature are enabled Vpls feature

Attribute Name: low-watermark

Attribute Type: uint16

Default Value: 70

Attribute Range: 1-100

Netconf edit-config payload

```
   <vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
   <mac-limit-profiles>
   <mac-limit-profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
      <low-watermark>1</low-watermark> <!-- operation="delete"-->
   </mac-limit-profile>
   </mac-limit-profiles>
   </vpls>
```

Command Syntax

```
low-watermark <1-100>
```

Configure errdisable timeout interval

Error disable timeout interval

This command is supported when following feature are enabled Vpls feature

Attribute Name: errdisable-timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-86400

Netconf edit-config payload

```
   <vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
```

```
   <mac-limit-profiles>
   <mac-limit-profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
      <errdisable-timeout-interval>0</errdisable-timeout-interval> <!--
operation="delete"-->
   </mac-limit-profile>
   </mac-limit-profiles>
   </vpls>
```

Command Syntax

```
    errdisable-timeout <0-86400>
```

Configure enable

This attribute is used to enable VPLS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
   <vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <vpls-access>
   <config>
         </enable>
   </config>
   </vpls-access>
   </interface>
   </interfaces>
   </vpls>
```

Command Syntax

```
    access-if-vpls
```

Configure vpls name

This attribute uniquely identifies a VPLS service on Subinterface

This command is supported when following feature are enabled Subinterface feature

Attribute Name: vpls-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpls-access>
<config>
      <vpls-name>NAME</vpls-name> <!-- operation="delete"-->
</config>
</vpls-access>
</interface>
</interfaces>
</vpls>
```

Command Syntax

```
 mpls-vpls NAME
```

Configure disable mac learning

Use this attribute to disable dynamic learning of MAC’s

This command is supported when following feature are enabled Subinterface feature

Attribute Name: disable-mac-learning

Attribute Type: empty

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpls-access>
<config>
      </disable-mac-learning><!-- operation="delete"-->
</config>
</vpls-access>
</interface>
</interfaces>
</vpls>
```

Command Syntax

```
learning disable
```

Configure name

Specify AC mac learning limit profile

This command is supported when following feature are enabled Subinterface feature

Attribute Name: learning-limit

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpls-access>
<config>
      <learning-limit>PROFILENAME</learning-limit> <!-- operation="delete"-->
</config>
</vpls-access>
</interface>
</interfaces>
</vpls>
```

Command Syntax

```
learning limit PROFILENAME
```

Configure vpls-access static-mac-address

Specify static-mac to be added on L2VPN VPLS

This command is supported when following feature are enabled Subinterface feature

Attribute Name: static-mac-address

Attribute Type: string

Netconf edit-config payload

```
<vpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<vpls-access>
<config>
```

```
          <static-mac-address>XXXX.XXXX.XXXX</static-mac-address> <!--
operation="delete"-->
   </config>
   </vpls-access>
   </interface>
   </interfaces>
   </vpls>
```

Command Syntax

```
    static-mac XXXX.XXXX.XXXX
```

Configure vpls identifier

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: vpls-identifier

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>vpls</instance-type>
      <config>
         <instance-type>vpls</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <vpls-instance>
   <config>
      <vpls-identifier>1</vpls-identifier>
   </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mpls vpls NAME <1-4294967295>
```

Configure service transport identifier

Specify service transport identifier

Attribute Name: service-transport-identifier

Attribute Type: enum (dot1.q|dot1.ad|0x9100|0x9200)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            <service-transport-identifier>dot1.q</service-transport-identifier> <!--
operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    service-tpid (dot1.q|dot1.ad|0x9100|0x9200)
```

Configure route map

Use this attribute to set route-map

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            <route-map>WORD</route-map> <!-- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-route-map WORD
```

Configure maximum transmission unit

Set the Maximum Transmission Unit (MTU) size for a given VPLS instance. This size is signaled to peer VPLS routers

Attribute Name: maximum-transmission-unit

Attribute Type: uint16

Default Value: 1500

Attribute Range: 576-65535

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            <maximum-transmission-unit>576</maximum-transmission-unit> <!--
operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-mtu <576-65535>
```

Configure vpls description

Specify a description for this VPLS instance

Attribute Name: vpls-description

Attribute Type: string

Default Value: NULL

Attribute Range: 1-64

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
```

```
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            <vpls-description>LINE</vpls-description> <!-- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 vpls-description LINE
```

Configure control word

Control Word for VPLS instance

Attribute Name: control-word

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            </control-word><!-- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 control-word
```

Configure mac learning disable

Specify mac learning disable for VPLS instance

Attribute Name: mac-learning-disable

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            </mac-learning-disable><!-- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    learning disable
```

Configure mac learning limit

Specify mac learning limit

Attribute Name: mac-learning-limit

Attribute Type: uint32

Attribute Range: 5-32767

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            <mac-learning-limit>5</mac-learning-limit> <!-- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    learning limit <5-32767>
```

Configure attachment circuit group name

Specify ac-group name

Attribute Name: attachment-circuit-group-name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            <attachment-circuit-group-name>GROUPNAME</attachment-circuit-group-name>
<!-- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 vpls-ac-group GROUPNAME
```

Configure mac withdrawal

Specify mac address withdrawal type

Attribute Name: mac-withdrawal

Attribute Type: bits (flush-on-spoke-vc-standby-activation|flush-propagate-spoke-to-mesh)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            <mac-withdrawal>flush-on-spoke-vc-standby-activation</mac-withdrawal> <!-
- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mac-withdrawal (flush-on-spoke-vc-standby-activation|flush-propagate-spoke-to-
  mesh)
```

Configure mac flush send on mlag switchover

Enable mac withdrawal mlag switch for MPLS VPLS

Attribute Name: mac-flush-send-on-mlag-switchover

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <config>
            </mac-flush-send-on-mlag-switchover><!-- operation="delete"-->
      </config>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
mac-flush-send-on-mlag-switchover
```

Configure pseudowire name

Specify pseudowire name to be added

Attribute Name: pseudowire-name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
```

```
      <spoke-pseudowires>
      <spoke-pseudowire> <!-- operation="delete"-->
         <pseudowire-name>NAME</pseudowire-name>
         <config>
            <pseudowire-name>NAME</pseudowire-name>
         </config>
      </spoke-pseudowire>
   </spoke-pseudowires>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-vc NAME
```

Configure revertive timer

This attribute is used to configure the vpls vc revertive timer. Default value is 0

Attribute Name: revertive-timer

Attribute Type: uint16

Attribute Range: 0-3600

Attribute Name: enable-revertive-mode

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <spoke-pseudowires>
      <spoke-pseudowire>
         <pseudowire-name>NAME</pseudowire-name>
         <config>
            <pseudowire-name>NAME</pseudowire-name>
            </enable-revertive-mode><!-- operation="delete"-->
         </config>
            <revertive-timer>0</revertive-timer> <!-- operation="delete"-->
      </spoke-pseudowire>
   </spoke-pseudowires>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vc-mode revertive (timer <0-3600>|)
```

Configure secondary pseudowire name

Specify secondary pseudowire name to be added

Attribute Name: secondary-pseudowire-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <spoke-pseudowires>
      <spoke-pseudowire>
         <pseudowire-name>NAME</pseudowire-name>
         <config>
            <pseudowire-name>NAME</pseudowire-name>
         </config>
            <secondary-pseudowire-name>NAME</secondary-pseudowire-name> <!--
operation="delete"-->
      </spoke-pseudowire>
   </spoke-pseudowires>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
secondary NAME
```

Configure instance name

Specify vc mac learning limit profile

Attribute Name: learning-limit

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
```

```
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <spoke-pseudowires>
      <spoke-pseudowire>
         <pseudowire-name>NAME</pseudowire-name>
         <config>
            <pseudowire-name>NAME</pseudowire-name>
         </config>
            <learning-limit>PROFILENAME</learning-limit> <!-- operation="delete"-->
      </spoke-pseudowire>
   </spoke-pseudowires>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 learning limit PROFILENAME
```

Configure instance type

Specify split-horizon for VPLS

Attribute Name: split-horizon

Attribute Type: enum (network|access1|access2)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <spoke-pseudowires>
      <spoke-pseudowire>
         <pseudowire-name>NAME</pseudowire-name>
         <config>
            <pseudowire-name>NAME</pseudowire-name>
         </config>
            <split-horizon>network</split-horizon> <!-- operation="delete"-->
      </spoke-pseudowire>
   </spoke-pseudowires>
```

```
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    split-horizon group (network|access1|access2)
```

Configure enable interface parameter tlv

Use this attribute to configure interface parameter tlv for VPLS Virtual Circuits.

Attribute Name: enable-interface-parameter-tlv

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <fat-label>
      <config>
            </enable-flow-label><!-- operation="delete"-->
            <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
            </enable-interface-parameter-tlv><!-- operation="delete"-->
      </config>
   </fat-label>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    flow-label (both|transmit|receive) interface-param-tlv
```

Configure enable static flow label

Use this attribute to configure static flow label for VPLS Virtual Circuits.

Attribute Name: enable-static-flow-label

Attribute Type: empty

Attribute Name: enable-flow-label

Attribute Type: empty

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <fat-label>
      <config>
            </enable-flow-label><!-- operation="delete"-->
            <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
            </enable-static-flow-label><!-- operation="delete"-->
      </config>
   </fat-label>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 flow-label (both|transmit|receive) static
```

Configure flow label direction

Use this attribute to configure flow label direction to transmit, receive or both for VPLS Virtual Circuits

Attribute Name: flow-label-direction

Attribute Type: enum (both|transmit|receive)

Attribute Name: enable-flow-label

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
```

```
          <instance-type>vpls</instance-type>
       </config>
          <instance-type>vpls</instance-type>
       <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
       <fat-label>
       <config>
             </enable-flow-label><!-- operation="delete"-->
             <flow-label-direction>both</flow-label-direction> <!--
operation="delete"-->
       </config>
   </fat-label>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    flow-label (both|transmit|receive)
```

Configure signaling protocol ldp

Specify protocol used for signaling is ldp

Attribute Name: signaling-protocol-ldp

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <config>
            </signaling-protocol-ldp>
      </config>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    signaling ldp
```

Configure disable mac withdrawal

Specify mac address withdrawal disable

Attribute Name: disable-mac-withdrawal

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <config>
             </disable-mac-withdrawal><!-- operation="delete"-->
      </config>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 mac-withdrawal disable
```

Configure vpls ac treatment type

Customaizations for access state treatment

Attribute Name: vpls-ac-treatment-type

Attribute Type: enum (ignore-ac-spoke-state|block-mesh-spoke-on-all-ac-down)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <config>
```

```
            <vpls-ac-treatment-type>ignore-ac-spoke-state</vpls-ac-treatment-type>
<!-- operation="delete"-->
       </config>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    (ignore-ac-spoke-state|block-mesh-spoke-on-all-ac-down)
```

Configure vpls encapsulation type

Specify encapsulation type

Attribute Name: vpls-encapsulation-type

Attribute Type: enum (vlan|ethernet)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <config>
            <vpls-encapsulation-type>ethernet</vpls-encapsulation-type> <!--
operation="delete"-->
      </config>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-type (vlan|ethernet)
```

Configure peer address

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>WORD</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
       </config>
          <instance-type>vpls</instance-type>
       <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
       <vpls-peers>
       <vpls-peer> <!-- operation="delete"-->
          <peer-address>A.B.C.D</peer-address>
          <config>
             <peer-address>A.B.C.D</peer-address>
             <peer-type>manual</peer-type>
          </config>
       </vpls-peer>
    </vpls-peers>
    </vpls-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
     vpls-peer A.B.C.D (manual)
```

Configure tunnel name

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: tunnel-name

Attribute Type: string

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>WORD</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vrf</instance-type>
```

```
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer> <!-- operation="delete"-->
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-name>TUNNELNAME</tunnel-name>
            <peer-type>manual</peer-type>
         </config>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 vpls-peer A.B.C.D tunnel-name TUNNELNAME (manual)
```

Configure tunnel identifier

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer> <!-- operation="delete"-->
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
```

```
            <tunnel-identifier>1</tunnel-identifier>
            <peer-type>manual</peer-type>
         </config>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 vpls-peer A.B.C.D tunnel-id <1-5000> (manual)
```

Configure tunnel policy

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Name: peer-type

Attribute Type: enum (manual)

Default Value: manual

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer> <!-- operation="delete"-->
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-policy>POLICYNAME</tunnel-policy>
            <peer-type>manual</peer-type>
         </config>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vpls-peer A.B.C.D tunnel-select-policy POLICYNAME (manual)
```

Configure vpls-peer peer-address

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer>
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
         </config>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vpls-peer A.B.C.D
```

Configure vpls-peer tunnel-name

Specify tunnel name

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
```

```
          <instance-name>WORD</instance-name>
          <instance-type>vpls</instance-type>
       </config>
          <instance-type>vpls</instance-type>
       <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
       <vpls-peers>
       <vpls-peer>
          <peer-address>A.B.C.D</peer-address>
          <config>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <tunnel-name>TUNNELNAME</tunnel-name>
       </vpls-peer>
    </vpls-peers>
    </vpls-instance>
    </network-instance>
    </network-instances>
```

Command Syntax

```
 vpls-peer A.B.C.D tunnel-name TUNNELNAME
```

Configure vpls-peer tunnel-identifier

Specify static tunnel identifier value

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
    <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
    <network-instance>
       <instance-name>WORD</instance-name>
       <config>
          <instance-name>WORD</instance-name>
          <instance-type>vpls</instance-type>
       </config>
          <instance-type>vpls</instance-type>
       <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
       <vpls-peers>
       <vpls-peer>
          <peer-address>A.B.C.D</peer-address>
          <config>
             <peer-address>A.B.C.D</peer-address>
          </config>
             <tunnel-identifier>1</tunnel-identifier>
       </vpls-peer>
    </vpls-peers>
    </vpls-instance>
```

```
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-peer A.B.C.D tunnel-id <1-5000>
```

Configure vpls-peer tunnel-policy

Specify tunnel selection policy name

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer>
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <tunnel-policy>TNLPOLICYNAME</tunnel-policy>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-peer A.B.C.D tunnel-select-policy TNLPOLICYNAME
```

Configure vpls type

Specify Peer VPLS Type

Attribute Name: vpls-type

Attribute Type: enum (vlan|ethernet)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer>
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
         </config>
            <vpls-type>vlan</vpls-type>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 vpls-peer A.B.C.D vpls-type (vlan|ethernet)
```

Configure vpls-peer vpls-type

Specify Peer VPLS Type

Attribute Name: vpls-type

Attribute Type: enum (vlan|ethernet)

Attribute Name: tunnel-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
```

```
      <vpls-peer>
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-name>TUNNELNAME</tunnel-name>
         </config>
            <vpls-type>vlan</vpls-type>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vpls-peer A.B.C.D tunnel-name TUNNELNAME vpls-type (vlan|ethernet)
```

Configure vpls-peer vpls-type

Specify Peer VPLS Type

Attribute Name: vpls-type

Attribute Type: enum (vlan|ethernet)

Attribute Name: tunnel-identifier

Attribute Type: uint32

Attribute Range: 1-5000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer>
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-identifier>1</tunnel-identifier>
         </config>
            <vpls-type>vlan</vpls-type>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
```

```
   </network-instances>
```

Command Syntax

```
    vpls-peer A.B.C.D tunnel-id <1-5000> vpls-type (vlan|ethernet)
```

Configure vpls-peer vpls-type

Specify Peer VPLS Type

Attribute Name: vpls-type

Attribute Type: enum (vlan|ethernet)

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer>
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
            <tunnel-policy>TNLPOLICYNAME</tunnel-policy>
         </config>
            <vpls-type>vlan</vpls-type>
      </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-peer A.B.C.D tunnel-select-policy TNLPOLICYNAME vpls-type (vlan|ethernet)
```

Configure target attachment individual identifier

Specify the Target Attachment Individual Identifier

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer>
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
         </config>
         <fec129s>
         <fec129> <!-- operation="delete"-->
            <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
            <config>
               <target-attachment-individual-identifier>WORD</target-attachment-
individual-identifier>
               <source-attachment-individual-identifier>WORD</source-attachment-
individual-identifier>
               <attachment-group-identifier>WORD</attachment-group-identifier>
            </config>
               <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
               <attachment-group-identifier>NAME</attachment-group-identifier>
         </fec129>
      </fec129s>
   </vpls-peer>
   </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 agi NAME saii NAME taii NAME
```

Configure attachment group identifier

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: attachment-group-identifier

Attribute Type: string

Attribute Name: source-attachment-individual-identifier

Attribute Type: string

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer> <!-- operation="delete"-->
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
         </config>
         <fec129s>
         <fec129>
            <attachment-group-identifier>NAME</attachment-group-identifier>
               <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
                  <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
               </fec129>
            </fec129s>
         </vpls-peer>
      </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    vpls-peer A.B.C.D agi NAME saii NAME taii NAME
```

Configure source attachment individual identifier

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: attachment-group-identifier

Attribute Type: string

Attribute Name: source-attachment-individual-identifier

Attribute Type: string

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Attribute Name: tunnel-name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer> <!-- operation="delete"-->
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
         </config>
         <fec129s>
         <fec129>
            <attachment-group-identifier>NAME</attachment-group-identifier>
               <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
                  <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
                  <config>
                     <tunnel-name>TUNNELNAME</tunnel-name>
                  </config>
               </fec129>
            </fec129s>
         </vpls-peer>
      </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 vpls-peer A.B.C.D agi NAME saii NAME taii NAME tunnel-name TUNNELNAME
```

Configure vpls-peers peer-address

Specify VPLS peer address

Attribute Name: peer-address

Attribute Type: string

Attribute Name: attachment-group-identifier

Attribute Type: string

Attribute Name: source-attachment-individual-identifier

Attribute Type: string

Attribute Name: target-attachment-individual-identifier

Attribute Type: string

Attribute Name: tunnel-identifier

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-peers>
      <vpls-peer> <!-- operation="delete"-->
         <peer-address>A.B.C.D</peer-address>
         <config>
            <peer-address>A.B.C.D</peer-address>
         </config>
         <fec129s>
         <fec129>
            <attachment-group-identifier>NAME</attachment-group-identifier>
               <source-attachment-individual-identifier>NAME</source-attachment-
individual-identifier>
                  <target-attachment-individual-identifier>NAME</target-attachment-
individual-identifier>
                  <config>
                     <tunnel-identifier>1</tunnel-identifier>
                  </config>
               </fec129>
            </fec129s>
         </vpls-peer>
      </vpls-peers>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vpls-peer A.B.C.D agi NAME saii NAME taii NAME tunnel-id <1-5000>
```

Configure bgp auto discovery

Enable BGP Auto-Discovery for LDP peers

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: bgp-auto-discovery

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <ldp-sig-bgp-autodiscovery>
      <config>
            </bgp-auto-discovery>
      </config>
   </ldp-sig-bgp-autodiscovery>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
bgp-auto-discovery
```

Configure rd string

Use this attribute to assign a route distinguisher (RD) for the VPLS instance in ASN:nn or IP-address:nn format RD must be unique across all VPLS instances

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: rd-string

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
```

```
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <ldp-sig-bgp-autodiscovery>
      <config>
            <rd-string>ASN:nn_or_IP-address:nn</rd-string> <!-- operation="delete"-->
      </config>
   </ldp-sig-bgp-autodiscovery>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
rd ASN:nn_or_IP-address:nn
```

Configure l2vpn id

Specify L2 VPN ID in ASN:nn or IP-address:nn format L2 VPN ID must be unique across all VPLS instances

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: l2vpn-id

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <ldp-sig-bgp-autodiscovery>
      <config>
            <l2vpn-id>ASN:nn_or_IP-address:nn</l2vpn-id> <!-- operation="delete"-->
      </config>
   </ldp-sig-bgp-autodiscovery>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
l2vpn-id ASN:nn_or_IP-address:nn
```

Configure direction

Use this attribute to add a list of import and export route-target extended communities for the VPLS instance

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: direction

Attribute Type: bits (import|export|both)

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <ldp-sig-bgp-autodiscovery>
      <route-targets>
      <route-target>
         <rt-string>ASN:nn_or_IP-address:nn</rt-string>
         <config>
            <rt-string>ASN:nn_or_IP-address:nn</rt-string>
         </config>
            <direction>import</direction>
      </route-target>
   </route-targets>
   </ldp-sig-bgp-autodiscovery>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    route-target (import|export|both) ASN:nn_or_IP-address:nn
```

Configure signaling protocol bgp

Specify protocol used for signaling is bgp

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: signaling-protocol-bgp

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
```

```
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <bgp-signaling>
      <config>
            </signaling-protocol-bgp>
      </config>
   </bgp-signaling>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 signaling bgp
```

Configure vpls edge identifier

Specify VPLS edge identifier value

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: vpls-edge-identifier

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <bgp-signaling>
      <config>
            <vpls-edge-identifier>1</vpls-edge-identifier> <!-- operation="delete"-->
      </config>
   </bgp-signaling>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 ve-id <1-65535>
```

Configure bgp-signaling tunnel-policy

Specify tunnel selection policy name

This command is supported when following feature are enabled Mpls BGP feature

Attribute Name: tunnel-policy

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <bgp-signaling>
      <config>
            <tunnel-policy>TNLPOLICYNAME</tunnel-policy> <!-- operation="delete"-->
      </config>
   </bgp-signaling>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 tunnel-select-policy TNLPOLICYNAME
```

Configure profile type

Specify profile name

This command is supported when following feature are enabled QOS feature

Attribute Name: profile-name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
```

```
        <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <quality-of-service-profiles>
      <quality-of-service-profile> <!-- operation="delete"-->
         <profile-name>NAME</profile-name>
         <config>
            <profile-name>WORD</profile-name>
            <profile-type>cos-to-queue</profile-type>
         </config>
            <profile-type>cos-to-queue</profile-type>
      </quality-of-service-profile>
   </quality-of-service-profiles>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
vpls-qos map-profile (cos-to-queue|queue-color-to-cos) NAME
```

Configure detect time

Mac move detection interval

Attribute Name: detect-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 5-300

Attribute Name: detect-time

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1000

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-mac-move-instance>
      <config>
            <detect-time>1</detect-time> <!-- operation="delete"-->
            <detect-interval>5</detect-interval> <!-- operation="delete"-->
      </config>
```

```
   </vpls-mac-move-instance>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    detect <1-1000> <5-300>
```

Configure mac move instance

VPLS instance mac move config

Attribute Name: mac-move-instance

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-mac-move-instance>
      <config>
            </mac-move-instance>
      </config>
   </vpls-mac-move-instance>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mac-move
```

Configure vpls-mac-move-instance errdisable-timeout-interval

Error disable timeout interval

Attribute Name: errdisable-timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-86400

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
```

```
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-mac-move-instance>
      <config>
            <errdisable-timeout-interval>0</errdisable-timeout-interval> <!--
operation="delete"-->
      </config>
   </vpls-mac-move-instance>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    errdisable timeout-interval <0-86400>
```

Configure errdisable allow mesh blocking

Allow blocking for Mesh PW

Attribute Name: errdisable-allow-mesh-blocking

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vpls</instance-type>
      </config>
         <instance-type>vpls</instance-type>
      <vpls-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
      <vpls-mac-move-instance>
      <config>
            </errdisable-allow-mesh-blocking><!-- operation="delete"-->
      </config>
   </vpls-mac-move-instance>
   </vpls-instance>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    errdisable allow-mesh-pw-blocking
```

clear mpls vpls NAME statistics (access-port|network-port)

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: port-type

Attribute Type: enum (access-port|network-port)

Netconf RPC payload

```
       <clear-mpls-vpls-name-statistics-port-type xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-l2vpn-vpls">
       <port-circuit-name>NAME</port-circuit-name>
       <port-type>access-port</port-type>
       </clear-mpls-vpls-name-statistics-port-type>
```

Command Syntax

```
    clear mpls vpls NAME statistics (access-port|network-port)
```

clear mpls vpls NAME statistics network-port peer A.B.C.D

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: vc-circuit-type

Attribute Type: string

Netconf RPC payload

```
       <clear-mpls-vpls-name-statistics-network-port-peer xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
       <port-circuit-name>NAME</port-circuit-name>
       <vc-circuit-type>A.B.C.D</vc-circuit-type>
       </clear-mpls-vpls-name-statistics-network-port-peer>
```

Command Syntax

```
    clear mpls vpls NAME statistics network-port peer A.B.C.D
```

clear mpls vpls NAME statistics network-port spoke-vc VC_NAME

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: vc-circuit-type

Attribute Type: string

Netconf RPC payload

```
       <clear-mpls-vpls-name-statistics-network-port-spoke xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-l2vpn-vpls">
       <port-circuit-name>NAME</port-circuit-name>
       <vc-circuit-type>VC_NAME</vc-circuit-type>
```

```
</clear-mpls-vpls-name-statistics-network-port-spoke>
```

Command Syntax

```
clear mpls vpls NAME statistics network-port spoke-vc VC_NAME
```

clear mpls vpls NAME statistics access-port WORD (vlan (<1-4094>)|ethernet)

Attribute Name: port-circuit-name

Attribute Type: string

Attribute Name: vc-interface-name

Attribute Type: string

Attribute Name: vc-access-type

Attribute Type: union

Netconf RPC payload

```
<clear-mpls-vpls-name-statistics-access-port xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-l2vpn-vpls">
<port-circuit-name>NAME</port-circuit-name>
<vc-interface-name>WORD</vc-interface-name>
<vc-access-type>VPLS_MPLS_ACCESS_TYPE_T</vc-access-type>
</clear-mpls-vpls-name-statistics-access-port>
```

Command Syntax

```
clear mpls vpls NAME statistics access-port WORD (vlan (<1-4094>)|ethernet)
```

clear mpls vpls NAME statistics

Attribute Name: vpls-circuit-name

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-name-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-l2vpn-vpls">
<vpls-circuit-name>NAME</vpls-circuit-name>
</clear-mpls-vpls-name-statistics>
```

Command Syntax

```
clear mpls vpls NAME statistics
```

clear mpls vpls NAME mac-addresses

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-mac-addresses-for-instance xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-l2vpn-vpls">
```

```
<name>NAME</name>
</clear-mpls-vpls-mac-addresses-for-instance>
```

Command Syntax

```
clear mpls vpls NAME mac-addresses
```

clear mpls vpls mac-addresses

Netconf RPC payload

```
<clear-mpls-vpls-mac-addresses-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-l2vpn-vpls"/>
```

Command Syntax

```
clear mpls vpls mac-addresses
```

clear mpls vpls mac-move NAME

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<clear-mpls-vpls-mac-move-for-instance xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-l2vpn-vpls">
<name>NAME</name>
</clear-mpls-vpls-mac-move-for-instance>
```

Command Syntax

```
clear mpls vpls mac-move NAME
```

IPI-MCEC

Configure options

Use this attribute to debug the mlag feature.

Attribute Name: options

Attribute Type: bits (hello|info|timer|event|cli|mac-sync|stp|all)

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<debug>
<config>
   <options>hello</options> <!-- operation="delete"-->
</config>
</debug>
</mcec>
```

Command Syntax

```
debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)
```

Configure mcec strict active standby

Use this attribute to set mcec strict active standby

Attribute Name: mcec-strict-active-standby

Attribute Type: empty

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<domain>
<config>
   </mcec-strict-active-standby><!-- operation="delete"-->
</config>
</domain>
</mcec>
```

Command Syntax

```
mcec strict-active-standby disable
```

Configure system number

Use this attribute to configure domain system number, which uniquely identifies domain system in MCEC domain

Attribute Name: system-number

Attribute Type: uint8

Attribute Range: 1-2

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<domain>
<config>
   <system-number>1</system-number> <!-- operation="delete"-->
</config>
</domain>
</mcec>
```

Command Syntax

```
domain-system-number <1-2>
```

Configure delay time

Use this attribute to specify the number of seconds by which to delay bringing up the MC-LAG interface

Attribute Name: delay-time

Attribute Type: uint32

Attribute Range: 10-300

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<domain>
<config>
   <delay-time>10</delay-time> <!-- operation="delete"-->
</config>
</domain>
</mcec>
```

Command Syntax

```
 init-delay-time <10-300>
```

Configure address

Use this attribute configure domain address, which helps to identify the MCEC domain

Attribute Name: address

Attribute Type: string

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<domain>
<config>
   <address>MAC</address> <!-- operation="delete"-->
</config>
</domain>
</mcec>
```

Command Syntax

```
 domain-address MAC
```

Configure priority

Use this attribute to specify the priority value associated with MCEC domain

Attribute Name: priority

Attribute Type: uint16

Default Value: 32768

Attribute Range: 1-65535

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<domain>
<config>
   <priority>1</priority> <!-- operation="delete"-->
</config>
</domain>
</mcec>
```

Command Syntax

```
domain-priority <1-65535>
```

Configure hello timeout

Use this attribute to specify the domain hello-timeout value

Attribute Name: hello-timeout

Attribute Type: enum (long|short)

Default Value: long

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<domain>
<config>
   <hello-timeout>long</hello-timeout> <!-- operation="delete"-->
</config>
</domain>
</mcec>
```

Command Syntax

```
domain-hello-timeout (long|short)
```

Configure interface

Use this attribute to map an interface as intra domain link that connects the domain system with its neighbour in a mcec domain

Attribute Name: interface

Attribute Type: string

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<intra-domain>
<peer-link>
<config>
   <interface>IFNAME</interface> <!-- operation="delete"-->
</config>
</peer-link>
</intra-domain>
</mcec>
```

Command Syntax

```
intra-domain-link IFNAME
```

Configure vrf

vrf of the peer DSN node

Attribute Name: vrf

Attribute Type: string

Attribute Name: peer-address

Attribute Type: inet:ipv4-address

Attribute Name: local-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<intra-domain>
<peer-address>
<config>
   <peer-address>A.B.C.D</peer-address>
   <local-address>A.B.C.D</local-address>
   <vrf>VRF_NAME</vrf>
</config>
</peer-address>
</intra-domain>
</mcec>
```

Command Syntax

```
intra-domain-peer A.B.C.D source-address A.B.C.D (vrf VRF_NAME|)
```

Configure interface mode

Use this attribute to set the MC-LAG mode. active-standby: The interface is ready to transition from active to standby state should a failure occur in the other node.

Attribute Name: interface-mode

Attribute Type: enum (active-standby|active-active)

Default Value: active-standby

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<mlag-interfaces>
<mlag-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <interface-mode>active-standby</interface-mode> <!-- operation="delete"-->
</mlag-interface>
</mlag-interfaces>
</mcec>
```

Command Syntax

```
mode (active-standby|active-active)
```

Configure revertive timer

Use this attribute to set the timer for MC-LAG switchover revertive type. After Revertive timer expires Slave will handover the control to Master Node. If a failure happens that triggers a switchover, after failure recovery the initially-active node becomes active again. Default switchover type is revertive 10s.

Attribute Name: revertive-timer

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-3600

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<mlag-interfaces>
<mlag-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<switchover-type>
<config>
       <revertive-timer>1</revertive-timer> <!-- operation="delete"-->
</config>
</switchover-type>
</mlag-interface>
</mlag-interfaces>
</mcec>
```

Command Syntax

```
 switchover type revertive <1-3600>
```

Configure enable non revertive

Use this attribute to set the MC-LAG switchover to non-revertive type. Do not switch back to the initially-active node after failure recovery. Default switchover type is revertive 10s.

Attribute Name: enable-non-revertive

Attribute Type: empty

Netconf edit-config payload

```
<mcec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<mlag-interfaces>
<mlag-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<switchover-type>
<config>
```

```
        </enable-non-revertive><!-- operation="delete"-->
    </config>
    </switchover-type>
    </mlag-interface>
    </mlag-interfaces>
    </mcec>
```

Command Syntax

```
switchover type non-revertive
```

debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (hello|info|timer|event|cli|mac-sync|stp|all)

Netconf RPC payload

```
<mcec-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<terminal-debug-options>hello</terminal-debug-options>
</mcec-terminal-debug-on>
```

Command Syntax

```
debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)
```

no debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (hello|info|timer|event|cli|mac-sync|stp|all)

Netconf RPC payload

```
<mcec-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec">
<terminal-debug-options>hello</terminal-debug-options>
</mcec-terminal-debug-off>
```

Command Syntax

```
no debug mcec (hello|info|timer|event|cli|mac-sync|stp|all)
```

clear mcec statistics

Netconf RPC payload

```
<clear-mcec-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec"/>
```

Command Syntax

```
clear mcec statistics
```

reload-trigger-mcec-notification

Netconf RPC payload

```
<trigger-reload xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mcec"/>
```

Command Syntax

```
reload-trigger-mcec-notification
```

IPI-MLAG

Configure mlag id

MLAG group number

Attribute Name: mlag-id

Attribute Type: uint16

Attribute Range: 1-255

Netconf edit-config payload

```
<interfaces xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-interface">
<interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
   <mlag-aggregation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mlag">
   <config>
         <mlag-id>1</mlag-id>
   </config>
</mlag-aggregation>
</interface>
</interfaces>
```

Command Syntax

```
mlag <1-255>
```

reload-trigger-save-mlag-info

Netconf RPC payload

```
<trigger-save-mlag-info xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mlag"/>
```

Command Syntax

```
reload-trigger-save-mlag-info
```

IPI-PLATFORM

Configure enable cmm

Use this attribute to turn on debugging for chassis monitoring

Attribute Name: enable-cmm

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<debug>
<config>
   </enable-cmm><!-- operation="delete"-->
</config>
</debug>
</components>
```

Command Syntax

```
debug cmm
```

Configure enable ddm

Use this attribute to turn on debugging for digital diagnostic monitoring

Attribute Name: enable-ddm

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<debug>
<config>
   </enable-ddm><!-- operation="delete"-->
</config>
</debug>
</components>
```

Command Syntax

```
debug ddm
```

Configure warning repeat

To enable cmm warning level logs to repeat.

Attribute Name: warning-repeat

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<global>
<config>
   </warning-repeat><!-- operation="delete"-->
</config>
</global>
</components>
```

Command Syntax

```
 cmm warning repeat
```

Configure locator led enable

To set the locator-led on or off.

Attribute Name: locator-led-enable

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<global>
<config>
   </locator-led-enable><!-- operation="delete"-->
</config>
</global>
</components>
```

Command Syntax

```
 locator-led on
```

Configure ddm monitor time interval

To set DDM Monitor interval time.

Attribute Name: ddm-monitor-time-interval

Attribute Type: uint16

Attribute Range: 60-3600

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<global>
<config>
   <ddm-monitor-time-interval>60</ddm-monitor-time-interval> <!--
operation="delete"-->
</config>
</global>
</components>
```

Command Syntax

```
ddm monitor interval <60-3600>
```

Configure cpu core usage monitor interval

To set CPU core usage monitor interval time

Attribute Name: cpu-core-usage-monitor-interval

Attribute Type: uint16

Attribute Range: 60-600

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<global>
<config>
   <cpu-core-usage-monitor-interval>60</cpu-core-usage-monitor-interval> <!--
operation="delete"-->
</config>
</global>
</components>
```

Command Syntax

```
cpu-core-monitor-average interval <60-600>
```

Configure enable ddm monitor

To enable DDM monitor for all transceivers.

Attribute Name: enable-ddm-monitor

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<global>
<config>
   </enable-ddm-monitor><!-- operation="delete"-->
</config>
</global>
</components>
```

Command Syntax

```
ddm monitor all
```

Configure gps satellite

Configure satellite system

Attribute Name: gps-satellite

Attribute Type: bits (gps|galileo|glonass|beidou)

Netconf edit-config payload

```
   <components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <global>
   <config>
      <gps-satellite>gps</gps-satellite> <!-- operation="delete"-->
   </config>
   </global>
   </components>
```

Command Syntax

```
    gps satellite-system {gps|galileo|glonass|beidou}
```

Configure system 15min load avg alarm

System 15min average load for alarm

Attribute Name: system-15min-load-avg-alarm

Attribute Type: uint8

Attribute Range: 51-100

Netconf edit-config payload

```
   <components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <global>
   <system-load-average-thresholds>
   <system-load-average-threshold> <!-- operation="delete"-->
      <system-15min-load-avg-alarm>51</system-15min-load-avg-alarm>
      <config>
         <system-15min-load-avg-alarm>51</system-15min-load-avg-alarm>
         <system-5min-load-avg-alarm>51</system-5min-load-avg-alarm>
         <system-1min-load-avg-alarm>51</system-1min-load-avg-alarm>
         <system-1min-load-avg-warning-threshold>41</system-1min-load-avg-warning-
threshold>
      </config>
      <system-5min-load-avg-alarm>51</system-5min-load-avg-alarm>
      <system-1min-load-avg-alarm>51</system-1min-load-avg-alarm>
      <system-1min-load-avg-warning-threshold>41</system-1min-load-avg-warning-
threshold>
   </system-load-average-threshold>
   </system-load-average-thresholds>
   </global>
   </components>
```

Command Syntax

```
    system-load-average 1min warning <41-100> alarm <51-100> 5min alarm <51-100> 15min
      alarm <51-100>
```

Configure alarm threshold

Cpu threshold for alarm

Attribute Name: alarm-threshold

Attribute Type: uint8

Attribute Range: 91-100

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<global>
<cpu-core-usage-thresholds>
<cpu-core-usage-threshold> <!-- operation="delete"-->
   <alarm-threshold>91</alarm-threshold>
   <config>
      <alarm-threshold>91</alarm-threshold>
      <warning-threshold>51</warning-threshold>
   </config>
   <warning-threshold>51</warning-threshold>
</cpu-core-usage-threshold>
</cpu-core-usage-thresholds>
</global>
</components>
```

Command Syntax

```
cpu-core-usage warning <51-100> alarm <91-100>
```

Configure gps position disable

gps postion disable

This command is supported when following feature are enabled PTP hardware offload feature enabled

Attribute Name: gps-position-disable

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<global>
<gps-position>
<config>
   </gps-position-disable><!-- operation="delete"-->
</config>
</gps-position>
</global>
</components>
```

Command Syntax

```
gps position disable
```

Configure gps survey in position accuracy

GPS position accuracy

This command is supported when following feature are enabled PTP hardware offload feature enabled

Attribute Name: gps-survey-in-position-accuracy

Attribute Type: uint32

Attribute Range: 1-10000

Attribute Name: gps-survey-in-observation-time

Attribute Type: uint32

Attribute Range: 1-1440

Netconf edit-config payload

```
   <components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <global>
   <gps-position>
   <config>
      <gps-survey-in-observation-time>1</gps-survey-in-observation-time> <!--
operation="delete"-->
      <gps-survey-in-position-accuracy>1</gps-survey-in-position-accuracy> <!--
operation="delete"-->
   </config>
   </gps-position>
   </global>
   </components>
```

Command Syntax

```
    gps position survey-in <1-1440> <1-10000>
```

Configure gps fixed altitude

GPS fixed altitude in meters

This command is supported when following feature are enabled PTP hardware offload feature enabled

Attribute Name: gps-fixed-altitude

Attribute Type: decimal64

Attribute Name: gps-fixed-latitude

Attribute Type: decimal64

Attribute Name: gps-fixed-longitude

Attribute Type: decimal64

Netconf edit-config payload

```
   <components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <global>
   <gps-position>
   <config>
      <gps-fixed-latitude>LATITUDE</gps-fixed-latitude> <!-- operation="delete"-->
      <gps-fixed-longitude>LONGITUDE</gps-fixed-longitude> <!-- operation="delete"-->
      <gps-fixed-altitude>ALTITUDE</gps-fixed-altitude> <!-- operation="delete"-->
   </config>
```

```
</gps-position>
</global>
</components>
```

Command Syntax

```
gps position fixed LATITUDE LONGITUDE ALTITUDE
```

Configure monitor port

To enable DDM monitor for current transceiver.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: monitor-port

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <monitor-port>disable</monitor-port> <!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
ddm monitor (disable|enable)
```

Configure poe enable

To enable PoE for current interface.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: poe-enable

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   </poe-enable><!-- operation="delete"-->
</interface>
```

```
</interfaces>
</components>
```

Command Syntax

```
poe-enable
```

Configure transceiver code

To set transceiver code for current transceiver.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: transceiver-code

Attribute Type: enum (1000base-sx|1000base-lx|1000base-ex|1000base-cx|10gbase-sr|10gbase-lr|10gbase-er|10gbase-cr|25gbase-sr|25gbase-lr|25gbase-er|25gbase-cr|40gbase-sr4|40gbase-lr4|40gbase-er4|40gbase-cr4|100gbase-sr4|100gbase-lr4|100gbase-er4|100gbase-cr4)

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   <transceiver-code>1000base-sx</transceiver-code> <!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
transceiver (1000base-sx|1000base-lx|1000base-ex|1000base-cx|10gbase-sr|10gbase-
  lr|10gbase-er|10gbase-cr|25gbase-sr|25gbase-lr|25gbase-er|25gbase-cr|40gbase-
  sr4|40gbase-lr4|40gbase-er4|40gbase-cr4|100gbase-sr4|100gbase-lr4|100gbase-
  er4|100gbase-cr4)
```

Configure wavelength

wavelength

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: wavelength

Attribute Type: union

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
```

```
        <interface-name>WORD</interface-name>
      </config>
      <wavelength>CML_WAVELENGTH_T</wavelength>
   </interface>
   </interfaces>
   </components>
```

Command Syntax

```
wavelength (channel-number <1-96>|update <1528773-1566723>)
```

Configure tx disable

To disable laser tx for current transceiver.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: tx-disable

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   </tx-disable><!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
tx-disable
```

Configure edfa operating mode

To set the EDFA operating mode

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: edfa-operating-mode

Attribute Type: enum (agc|apc)

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
   <interface-name>WORD</interface-name>
   <config>
      <interface-name>WORD</interface-name>
```

```
      </config>
      <edfa-operating-mode>agc</edfa-operating-mode> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </components>
```

Command Syntax

```
    edfa operating-mode (agc|apc)
```

Configure edfa target output power

To configure the target output power value in dBm

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: edfa-target-output-power

Attribute Type: decimal64

Netconf edit-config payload

```
   <components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <interfaces>
   <interface>
      <interface-name>WORD</interface-name>
      <config>
         <interface-name>WORD</interface-name>
      </config>
      <edfa-target-output-power>VALUE</edfa-target-output-power> <!--
operation="delete"-->
   </interface>
   </interfaces>
   </components>
```

Command Syntax

```
    edfa target-outpwr VALUE
```

Configure edfa target gain

To set the target-gain

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: edfa-target-gain

Attribute Type: decimal64

Netconf edit-config payload

```
   <components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <interfaces>
   <interface>
      <interface-name>WORD</interface-name>
      <config>
         <interface-name>WORD</interface-name>
```

```
    </config>
    <edfa-target-gain>VALUE</edfa-target-gain> <!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
edfa target-gain VALUE
```

Configure tx cdr bypass

Bypass the TX CDR control

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: tx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
    </tx-cdr-bypass><!-- operation="delete"-->
</interface>
</interfaces>
</components>
```

Command Syntax

```
tx cdr-bypass
```

Configure rx cdr bypass

Bypass the CDR control

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: rx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interfaces>
<interface>
    <interface-name>WORD</interface-name>
    <config>
        <interface-name>WORD</interface-name>
    </config>
```

```
      </rx-cdr-bypass><!-- operation="delete"-->
   </interface>
   </interfaces>
   </components>
```

Command Syntax

```
rx cdr-bypass
```

Configure interval

To set disk activity sampling window interval time.

Attribute Name: interval

Attribute Type: uint16

Attribute Range: 30-1200

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<disk-activity-monitoring>
<config>
   <interval>30</interval> <!-- operation="delete"-->
</config>
</disk-activity-monitoring>
</components>
```

Command Syntax

```
disk-activity-monitoring interval <30-1200>
```

Configure read threshold

To set disk read activity alarm threshold.

Attribute Name: read-threshold

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<disk-activity-monitoring>
<config>
   <read-threshold>1</read-threshold> <!-- operation="delete"-->
</config>
</disk-activity-monitoring>
</components>
```

Command Syntax

```
disk-activity-monitoring threshold read <1-20000>
```

Configure write threshold

To set disk write activity alarm threshold.

Attribute Name: write-threshold

Attribute Type: uint32

Attribute Range: 1-20000

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<disk-activity-monitoring>
<config>
   <write-threshold>1</write-threshold> <!-- operation="delete"-->
</config>
</disk-activity-monitoring>
</components>
```

Command Syntax

```
disk-activity-monitoring threshold write <1-20000>
```

Configure temperature policy

Set temperature policy

Attribute Name: temperature-policy

Attribute Type: enum (sys-halt|sys-reboot|none)

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<temperature>
<config>
   <temperature-policy>sys-halt</temperature-policy> <!-- operation="delete"-->
</config>
</temperature>
</components>
```

Command Syntax

```
temperature policy (sys-halt|sys-reboot|none)
```

Configure sensor id

Sensor ID

Attribute Name: sensor-id

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
```

```
<temperature>
<thresholds>
<threshold> <!-- operation="delete"-->
   <sensor-id>1</sensor-id>
   <config>
      <sensor-id>1</sensor-id>
   </config>
</threshold>
</thresholds>
</temperature>
</components>
```

Command Syntax

```
temperature threshold <1-15>
```

Configure value

Value to over-write temperature sensor threshold

Attribute Name: value

Attribute Type: int16

Attribute Range: -50-150

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<temperature>
<thresholds>
<threshold>
   <sensor-id>1</sensor-id>
   <config>
      <sensor-id>1</sensor-id>
   </config>
<severities>
<severity>
   <severity>emer-max</severity>
   <config>
      <severity>emer-max</severity>
   </config>
      <value>-50</value> <!-- operation="delete"-->
</severity>
</severities>
</threshold>
</thresholds>
</temperature>
</components>
```

Command Syntax

```
(emer-max|alrt-max|crit-max|crit-min|alrt-min|emer-min) <-50-150>
```

Configure fan duty

To configure the fan duty cycle

Attribute Name: fan-duty

Attribute Type: uint8

Attribute Range: 0-100

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<fan-duty-cycle>
<config>
   <fan-duty>0</fan-duty> <!-- operation="delete"-->
</config>
</fan-duty-cycle>
</components>
```

Command Syntax

```
fan-duty-cycle <0-100>
```

Configure ifname

Phy port interface name

Attribute Name: ifname

Attribute Type: string

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<phyports>
<phyport> <!-- operation="delete"-->
   <ifname>IFNAME</ifname>
   <config>
      <ifname>WORD</ifname>
   </config>
</phyport>
</phyports>
</components>
```

Command Syntax

```
phyport IFNAME
```

Configure disable

Disable the phy port

Attribute Name: disable

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<phyports>
<phyport>
   <ifname>IFNAME</ifname>
   <config>
      <ifname>WORD</ifname>
   </config>
   </disable><!-- operation="delete"-->
</phyport>
</phyports>
</components>
```

Command Syntax

```
disable
```

clear ddm transceiver alarm all

Netconf RPC payload

```
      <ddm-clear-transceiver-alarm-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-platform"/>
```

Command Syntax

```
clear ddm transceiver alarm all
```

clear ddm transceiver alarm

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
      <ddm-clear-transceiver-alarm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform">
      <name>WORD</name>
      </ddm-clear-transceiver-alarm>
```

Command Syntax

```
clear ddm transceiver alarm
```

debug ddm

Netconf RPC payload

```
      <cmm-terminal-debug-ddm-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform"/>
```

Command Syntax

```
debug ddm
```

no debug ddm

Netconf RPC payload

```
      <cmm-terminal-debug-ddm-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform"/>
```

Command Syntax

```
    no debug ddm
```

debug cmm

Netconf RPC payload

```
      <cmm-terminal-debug-cmm-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform"/>
```

Command Syntax

```
    debug cmm
```

no debug cmm

Netconf RPC payload

```
      <cmm-terminal-debug-cmm-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform"/>
```

Command Syntax

```
    no debug cmm
```

gps position survey-in restart

Netconf RPC payload

```
      <gps-survey-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform"/>
```

Command Syntax

```
    gps position survey-in restart
```

IPI-PLATFORM-PROFILE

Configure flow control

Use this attribute to enable or disable hardware profile flowcontrol.

This command is supported when following feature are enabled broadcom feature

Attribute Name: flow-control

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   </flow-control><!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile flowcontrol enable
```

Configure aclif

Use this attribute to set or unset the hardware profile aclif

This command is supported when following feature are enabled broadcom feature

Attribute Name: aclif

Attribute Type: enum (failover|no-failover)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <aclif>failover</aclif> <!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile aclif (failover|no-failover)
```

Configure seamless bfd

Use this attribute to enable or disable hardware profile seamless-bfd.

This command is supported when following feature are enabled broadcom feature

Attribute Name: seamless-bfd

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   </seamless-bfd><!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile seamless-bfd enable
```

Configure kbp disable

Use this attribute to enable or disable kbp hardware profile.

This command is supported when following feature are enabled broadcom feature

Attribute Name: kbp-disable

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   </kbp-disable><!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile kbp-disable
```

Configure ufis9600 64x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9600-64x-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <ufis9600-64x-port-mode>mode1</ufis9600-64x-port-mode> <!-- operation="delete"--
>
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure as7315 27x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as7315_27x-port-mode

Attribute Type: enum (mode1|mode2|mode3)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <as7315_27x-port-mode>mode1</as7315_27x-port-mode> <!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile port-config (mode1|mode2|mode3)
```

Configure as5916 as5912 54x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as5916_as5912_54x-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <as5916_as5912_54x-port-mode>mode1</as5916_as5912_54x-port-mode> <!--
operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile port-config (mode1|mode2)
```

Configure as7316 26xb port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as7316_26xb-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <as7316_26xb-port-mode>mode1</as7316_26xb-port-mode> <!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure s9500 30xs port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: s9500_30xs-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <s9500_30xs-port-mode>mode1</s9500_30xs-port-mode> <!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufis9600 32x port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9600-32x-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode2

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <ufis9600-32x-port-mode>mode2</ufis9600-32x-port-mode> <!-- operation="delete"--
>
```

```
   </config>
   </hardware-profile>
   </profiles>
```

Command Syntax

```
    hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufis9600 56dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9600-56dx-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
   <profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <hardware-profile>
   <config>
      <ufis9600-56dx-port-mode>mode1</ufis9600-56dx-port-mode> <!--
operation="delete"-->
   </config>
   </hardware-profile>
   </profiles>
```

Command Syntax

```
    hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufis9600 28dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9600-28dx-port-mode

Attribute Type: enum (mode1|mode2|mode3|mode4)

Default Value: mode1

Netconf edit-config payload

```
   <profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <hardware-profile>
   <config>
      <ufis9600-28dx-port-mode>mode1</ufis9600-28dx-port-mode> <!--
operation="delete"-->
   </config>
   </hardware-profile>
   </profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2|mode3|mode4)
```

Configure ufis9610 36d port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9610-36d-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <ufis9610-36d-port-mode>mode1</ufis9610-36d-port-mode> <!-- operation="delete"--
>
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2)
```

Configure ufis9610 46dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9610-46dx-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<config>
   <ufis9610-46dx-port-mode>mode1</ufis9610-46dx-port-mode> <!--
operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile port-config (mode1|mode2)
```

Configure ufis9610 48dx port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: ufis9610-48dx-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
   <profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <hardware-profile>
   <config>
      <ufis9610-48dx-port-mode>mode1</ufis9610-48dx-port-mode> <!--
operation="delete"-->
   </config>
   </hardware-profile>
   </profiles>
```

Command Syntax

```
    hardware-profile port-config (mode1|mode2)
```

Configure as9947 36xkb port mode

use this attribute to configure or unconfigure hardware profile port modes

This command is supported when following feature are enabled broadcom feature

Attribute Name: as9947_36xkb-port-mode

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
   <profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <hardware-profile>
   <config>
      <as9947_36xkb-port-mode>mode1</as9947_36xkb-port-mode> <!-- operation="delete"--
>
   </config>
   </hardware-profile>
   </profiles>
```

Command Syntax

```
    hardware-profile port-config (mode1|mode2)
```

Configure custom service queue profile

Use this attribute to configure or unconfigure hardware profile service-queue profile support.

This command is supported when following feature are enabled broadcom feature

Attribute Name: custom-service-queue-profile

Attribute Type: enum (profile1|profile2)

Default Value: profile1

Netconf edit-config payload

```
   <profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <hardware-profile>
   <config>
      <custom-service-queue-profile>profile1</custom-service-queue-profile> <!--
operation="delete"-->
   </config>
   </hardware-profile>
   </profiles>
```

Command Syntax

```
    hardware-profile service-queue (profile1|profile2)
```

Configure bgp flowspec mode

use this attribute to set bgp-flowspce-mode

This command is supported when following feature are enabled broadcom feature

Attribute Name: bgp-flowspec-mode

Attribute Type: enum (install-all|install-partial|no-prioritizing)

Netconf edit-config payload

```
   <profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <hardware-profile>
   <config>
      <bgp-flowspec-mode>install-all</bgp-flowspec-mode> <!-- operation="delete"-->
   </config>
   </hardware-profile>
   </profiles>
```

Command Syntax

```
    hardware-profile bgp-flowspec-mode (install-all|install-partial|no-prioritizing)
```

Configure eedb

Use this attribute to set hardware-profile eedb

This command is supported when following feature are enabled broadcom feature

Attribute Name: eedb

Attribute Type: enum (mode1|mode2)

Default Value: mode1

Netconf edit-config payload

```
   <profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
```

```
<hardware-profile>
<config>
   <eedb>mode1</eedb> <!-- operation="delete"-->
</config>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile eedb (mode1|mode2)
```

Configure ingress ipv6 extended

Use this attribute to enable or disable Ingress IPv6 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-extended

Attribute Type: uint8

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv6-extended><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6-ext enable
```

Configure ingress ipv6 extended vlan

Use this attribute to enable or disable Ingress IPv6 extended vlan filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-extended-vlan

Attribute Type: uint8

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv6-extended-vlan><!-- operation="delete"-->
</config>
```

```
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6-ext-vlan enable
```

Configure ingress ip outer

Use this attribute to enable or disable the outer ip header filter

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ip-outer

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ip-outer><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter-match ingress-ip-outer
```

Configure egress dst ipv6

Use this attribute to enable or disable Egress Dst IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-dst-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-dst-ipv6><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-dst-ipv6 enable
```

Configure egress src ipv6

Use this attribute to enable or disable Egress Src IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-src-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-src-ipv6><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-src-ipv6 enable
```

Configure egress ipv6 dnx

Use this command to enable or disable egress IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-ipv6-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-ipv6-dnx><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-ipv6 enable
```

Configure ingress ipv6

Use this attribute to enable or disable Ingress IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv6><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6 enable
```

Configure qos policer

Use this attribute to enable or disable QoS policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos-policer

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </qos-policer><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos-policer enable
```

Configure qos ipv6

Use this attribute to enable or disable QoS filter group for IPv6 traffic. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </qos-ipv6><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos-ipv6 enable
```

Configure ipv4 bgp flowspec

Use this attribute to enable or disable Ingress IPv4 BGP FLOWSPEC filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ipv4-bgp-flowspec

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ipv4-bgp-flowspec><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ipv4-bgp-flowspec enable
```

Configure qos extended

Use this attribute to enable or disable QoS extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos-extended

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </qos-extended><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos-ext enable
```

Configure ingress ipv4 extended

Use this attribute to enable or disable Ingress IPv4 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-extended

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv4-extended><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4-ext enable
```

Configure ingress ipv6 qos

Use this attribute to enable or disable Ingress IPv6 QoS filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-qos

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv6-qos><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile filter ingress-ipv6-qos enable
```

Configure ingress ipv4 qos

Use this attribute to enable or disable Ingress IPv4 QoS filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-qos

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv4-qos><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile filter ingress-ipv4-qos enable
```

Configure ingress ipv6 qos copp

Use this attribute to enable or disable Ingress IPv6 QoS and CoPP filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-qos-copp

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv6-qos-copp><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile filter ingress-ipv6-qos-copp enable
```

Configure ingress ipv4 qos copp

Use this attribute to enable or disable Ingress IPv4 QoS and CoPP filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-qos-copp

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv4-qos-copp><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile filter ingress-ipv4-qos-copp enable
```

Configure ingress layer2 extended

Use this attribute to enable or disable Ingress L2 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-layer2-extended

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-layer2-extended><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-l2-ext enable
```

Configure ingress ipv6 extended subif

Use this attribute to enable or disable Ingress IPv6 extended subif filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv6-extended-subif

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv6-extended-subif><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6-ext-subif enable
```

Configure ingress ipv4 subif

Use this attribute to enable or disable Ingress IPv4 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4-subif

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv4-subif><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile filter ingress-ipv4-subif enable
```

Configure ingress arp

Use this attribute to enable or disable Ingress ARP filter groups.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-arp

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-arp><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
 hardware-profile filter ingress-arp enable
```

Configure egress qos policer

Use this attribute to enable or disable Egress QoS policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-qos-policer

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-qos-policer><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-qos-policer enable
```

Configure egress qos policer ext

Use this attribute to enable or disable Egress QoS policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-qos-policer-ext

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-qos-policer-ext><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-qos-policer-ext enable
```

Configure egress ipv4 dnx

Use this attribute to enable or disable Egress IPv4 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-ipv4-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-ipv4-dnx><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-ipv4 enable
```

Configure egress l2 mlag

Use this attribute to enable or disable Egress l2 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-l2-mlag

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-l2-mlag><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-l2-mlag enable
```

Configure egress ipv4 ext

Use this attribute to enable or disable Egress IPv4 ext filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-ipv4-ext

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-ipv4-ext><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-ipv4-ext enable
```

Configure egress layer2 dnx

Use this attribute to enable or disable Egress L2 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-layer2-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </egress-layer2-dnx><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-l2 enable
```

Configure egress layer2 ext

Use this attribute to enable or disable Egress L2 ext filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-layer2-ext

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
```

```
<filters>
<config>
   </egress-layer2-ext><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter egress-l2-ext enable
```

Configure ingress layer2 subif

Use this attribute to enable or disable Ingress L2 extended filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-layer2-subif

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-layer2-subif><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-l2-subif enable
```

Configure twamp ipv4 dnx

Use this attribute to enable or disable TWAMP IPv4 Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: twamp-ipv4-dnx

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </twamp-ipv4-dnx><!-- operation="delete"-->
```

```
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter twamp-ipv4 enable
```

Configure twamp ipv6

Use this attribute to enable or disable TWAMP IPv6 Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: twamp-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </twamp-ipv6><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter twamp-ipv6 enable
```

Configure vxlan arp nd

Use this attribute to enable or disable VxLAN Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: vxlan-arp-nd

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </vxlan-arp-nd><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
```

```
</profiles>
```

Command Syntax

```
hardware-profile filter vxlan enable
```

Configure vxlan multi homing

Use this attribute to enable or disable VxLAN Multi Homing Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: vxlan-multi-homing

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </vxlan-multi-homing><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter vxlan-mh enable
```

Configure vxlan short pkt

Use this attribute to enable or disable VxLAN Short Packet Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: vxlan-short-pkt

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </vxlan-short-pkt><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter vxlan-short-pkt enable
```

Configure dhcp snoop

Use this attribute to enable or disable Dhcp snooping filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: dhcp-snoop

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </dhcp-snoop><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter dhcp-snoop enable
```

Configure dhcp snoop ipv6

Use this attribute to enable or disable Dhcp snooping ipv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: dhcp-snoop-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </dhcp-snoop-ipv6><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter dhcp-snoop-ipv6 enable
```

Configure ipsg

Use this attribute to enable or disable IP Source Guard(IPSG) filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ipsg

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ipsg><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ipsg enable
```

Configure ipsg ipv6

Use this attribute to enable or disable IP Source Guard(IPSG) ipv6 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ipsg-ipv6

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ipsg-ipv6><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ipsg-ipv6 enable
```

Configure ingress ipv4

Use this attribute to enable or disable Ingress IPv4 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-ipv4

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-ipv4><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4 enable
```

Configure ingress layer2

Use this attribute to enable or disable Ingress L2 filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: ingress-layer2

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </ingress-layer2><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-l2 enable
```

Configure qos

Use this attribute to enable or disable QoS filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: qos

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filters>
<config>
   </qos><!-- operation="delete"-->
</config>
</filters>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter qos enable
```

Configure evpn mpls multi homing

Use this attribute to enable or disable EVPN-MPLS Multi Homing Forwarding filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: evpn-mpls-multi-homing

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<filter-evpn-mpls-mh>
<config>
   </evpn-mpls-multi-homing><!-- operation="delete"-->
</config>
</filter-evpn-mpls-mh>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter evpn-mpls-mh enable
```

Configure voq scale

Use this attribute to set voq scale for the hardware profile statistics

This command is supported when following feature are enabled broadcom feature

Attribute Name: voq-scale

Attribute Type: enum (full|half)

Default Value: full

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<statistics>
<config>
   <voq-scale>full</voq-scale> <!-- operation="delete"-->
</config>
</statistics>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics voq-scale (full|half)
```

Configure virtual output queue full color forward drop

Use this attribute to enable Virtual Output Queue Forward Drop or Virtual Output Queue Full Color filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: virtual-output-queue-full-color-forward-drop

Attribute Type: enum (voq-full-color|voq-fwd-drop)

Default Value: voq-full-color

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<statistics>
<config>
   <virtual-output-queue-full-color-forward-drop>voq-full-color</virtual-output-
queue-full-color-forward-drop> <!-- operation="delete"-->
</config>
</statistics>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics (voq-full-color|voq-fwd-drop) enable
```

Configure egress policer

Use this attribute to enable or disable Egress policer filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: egress-policer

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<statistics>
<config>
   </egress-policer><!-- operation="delete"-->
</config>
</statistics>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics egress-policer enable
```

Configure cfm frame loss measurements

Use this attribute to enable or disable CFM Loss Measurements filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: cfm-frame-loss-measurements

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<statistics>
<config>
   </cfm-frame-loss-measurements><!-- operation="delete"-->
</config>
</statistics>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics cfm-lm enable
```

Configure cfm synthetic loss measurements

Use this attribute to enable or disable CFM Loss Measurements filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: cfm-synthetic-loss-measurements

Attribute Type: empty

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
```

```
<statistics>
<config>
   </cfm-synthetic-loss-measurements><!-- operation="delete"-->
</config>
</statistics>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics cfm-slm enable
```

Configure cfm continuity check message

Use this attribute to enable or disable CFM Continuity Check Messages filter groups. Disabling filter groups increases the configurable filter entries.

This command is supported when following feature are enabled broadcom feature

Attribute Name: cfm-continuity-check-message

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<hardware-profile>
<statistics>
<config>
   <cfm-continuity-check-message>disable</cfm-continuity-check-message> <!--
operation="delete"-->
</config>
</statistics>
</hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile statistics cfm-ccm (disable|enable)
```

Configure enable

This Object is set loadBalance

This command is supported when following feature are enabled broadcom feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
<config>
   </enable>
</config>
```

```
</load-balance>
</hardware>
```

Command Syntax

```
load-balance enable
```

Configure mpls label based

This Object is set for load balancing based on mpls labels

This command is supported when following feature are enabled broadcom feature

Attribute Name: mpls-label-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
<config>
   </mpls-label-based><!-- operation="delete"-->
</config>
</load-balance>
</hardware>
```

Command Syntax

```
load-balance mpls labels
```

Configure symmetric type

Choose Symmetrical or Non symmetrical based load balancing

This command is supported when following feature are enabled L2 feature,broadcom feature

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Attribute Name: ether-type-based

Attribute Type: empty

Attribute Name: vlan-based

Attribute Type: empty

Attribute Name: src-dest-mac-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
<l2>
<config>
   </ether-type-based><!-- operation="delete"-->
   </vlan-based><!-- operation="delete"-->
```

```
    </src-dest-mac-based><!-- operation="delete"-->
    <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
</config>
</l2>
</load-balance>
</hardware>
```

Command Syntax

```
load-balance l2 { ether-type| vlan| src-dest-mac| (symmetric|non-symmetric) }
```

Configure protocol id based

Choose Symmetrical or Non symmetrical based load balancing

This command is supported when following feature are enabled L3 feature,broadcom feature

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Attribute Name: protocol-id-based

Attribute Type: empty

Attribute Name: src-dest-ipv4-address-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
<ipv4>
<config>
    </protocol-id-based><!-- operation="delete"-->
    </src-dest-ipv4-address-based><!-- operation="delete"-->
    <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
</config>
</ipv4>
</load-balance>
</hardware>
```

Command Syntax

```
load-balance ipv4 { protocol-id| src-dest-ipv4| (symmetric|non-symmetric) }
```

Configure next header based

This Object is set for Next Header Field for IPV6

This command is supported when following feature are enabled L3 feature,broadcom feature

Attribute Name: next-header-based

Attribute Type: empty

Attribute Name: src-dest-ipv6-address-based

Attribute Type: empty

Attribute Name: flow-label-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
<ipv6>
<config>
   </src-dest-ipv6-address-based><!-- operation="delete"-->
   </flow-label-based><!-- operation="delete"-->
   </next-header-based><!-- operation="delete"-->
</config>
</ipv6>
</load-balance>
</hardware>
```

Command Syntax

```
 load-balance ipv6 { src-dest-ipv6| flow-label| next-hdr }
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<cpu-queue>
<rate-limits>
<rate-limit>
   <queue-name>cpu.q0</queue-name>
   <config>
      <queue-name>cpu.q0</queue-name>
      <rate>0</rate>
   </config>
</rate-limit>
</rate-limits>
</cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
  (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
  mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
  dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
  redirect|guest|cfm|bfd) rate <0-100000>
```

Configure monitor status

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: monitor-status

Attribute Type: enum (no-monitor|monitor)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<cpu-queue>
<rate-limits>
<rate-limit>
   <queue-name>cpu.q0</queue-name>
   <config>
      <queue-name>cpu.q0</queue-name>
      <monitor-status>no-monitor</monitor-status>
   </config>
</rate-limit>
</rate-limits>
</cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
  (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
  mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
  dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
  redirect|guest|cfm|bfd) (no-monitor|monitor)
```

Configure rate

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: monitor-status

Attribute Type: enum (no-monitor|monitor)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<cpu-queue>
<rate-limits>
<rate-limit>
   <queue-name>cpu.q0</queue-name>
   <config>
      <queue-name>cpu.q0</queue-name>
      <rate>0</rate>
      <monitor-status>no-monitor</monitor-status>
   </config>
</rate-limit>
</rate-limits>
</cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
  (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
  mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
  dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
  redirect|guest|cfm|bfd) rate <0-100000> (no-monitor|monitor)
```

Configure rate-limits queue-name

This attribute specifies CPU queue name for rate limiting config

This command is supported when following feature are enabled broadcom feature

Attribute Name: queue-name

Attribute Type: enum (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-redirect|guest|cfm|bfd)

Attribute Name: monitor-status

Attribute Type: enum (no-monitor|monitor)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

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Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<cpu-queue>
<rate-limits>
<rate-limit>
   <queue-name>cpu.q0</queue-name>
   <config>
      <queue-name>cpu.q0</queue-name>
      <monitor-status>no-monitor</monitor-status>
      <rate>0</rate>
   </config>
</rate-limit>
</rate-limits>
</cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue
  (cpu.q0|cpu.q1|cpu.q2|cpu.q3|cpu.q4|cpu.q5|cpu.q6|cpu.q7|igmp|isis|reserved-
  mc|link-local|ospf|bgp|rsvp-ldp|vrrp-rip-
  dhcp|pim|icmp|arp|bpdu|oamp|sflow|dsp|evpn|nhop|mgmt-route-leak|icmp-
  redirect|guest|cfm|bfd) (no-monitor|monitor) rate <0-100000>
```

cpu-q-default rate <0-100000>

Attribute Name: rate

Attribute Type: uint32

Attribute Range: 0-100000

Netconf RPC payload

```
      <ipi-platform-profile_platform-profile-cpu-q-rate-set xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-platform">
      <rate>0</rate>
      </ipi-platform-profile_platform-profile-cpu-q-rate-set>
```

Command Syntax

```
cpu-q-default rate <0-100000>
```

no cpu-q-default rate

Attribute Name: rate

Attribute Type: empty

Netconf RPC payload

```
      <ipi-platform-profile_platform-profile-cpu-q-rate-unset xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-platform">
      <rate>CML_EMPTY_T</rate>
      </ipi-platform-profile_platform-profile-cpu-q-rate-unset>
```

Command Syntax

```
no cpu-q-default rate
```

IPI-PLATFORM-PROFILE-EXTENDED

Configure soc

Attribute to indicate the SoC running on this platform. This attribute cannot be configured.

This command is supported when following feature are disabled marvell feature

Attribute Name: soc

Attribute Type: enum (qax|qux|qmx|dnx|tomahawk|tomahawk2|tomahawk3|tomahawkplus|trident2|trident2plus|trident3|helix4|saber2|maverick2|hurricane4|trident4|tomahawk4|tomahawk5|unknown)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<platform>
<config>
       <soc>qax</soc> <!-- operation="delete"-->
</config>
</platform>
</hardware>
```

Command Syntax

```
platform-extended-soc
  (qax|qux|qmx|dnx|tomahawk|tomahawk2|tomahawk3|tomahawkplus|trident2|trident2plus
  |trident3|helix4|saber2|maverick2|hurricane4|trident4|tomahawk4|tomahawk5|unknow
  n)
```

Configure kaps

forwarding MDB profile KAPS-CFG

This command is supported when following feature are enabled dnx feature,bcm uft feature and following feature are disabled marvell feature

Attribute Name: kaps

Attribute Type: enum (1)

Attribute Name: type

Attribute Type: enum (balanced|balanced-p-and-p|l2-xl|l3-xl|balanced-extended)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<forwarding-profiles>
   <mdb>
   <config>
          <type>balanced</type>
```

```
            <kaps>1</kaps>
      </config>
   </mdb>
   </forwarding-profiles>
   </profiles>
```

Command Syntax

```
 forwarding mdb-profile (balanced|balanced-p-and-p|l2-xl|l3-xl|balanced-extended)
   kaps-cfg (1)
```

Configure ether type based

This Object is set for Ether-type based load balancing

This command is supported when following feature are enabled l2 feature,dnx feature and following feature are disabled marvell feature

Attribute Name: ether-type-based

Attribute Type: empty

Attribute Name: vlan-based

Attribute Type: empty

Attribute Name: src-dest-mac-based

Attribute Type: empty

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Netconf edit-config payload

```
   <hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <load-balance>
      <l2>
         <inner-l2>
         <config>
                </vlan-based><!-- operation="delete"-->
                </src-dest-mac-based><!-- operation="delete"-->
                <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
                </ether-type-based><!-- operation="delete"-->
         </config>
      </inner-l2>
   </l2>
   </load-balance>
   </hardware>
```

Command Syntax

```
 load-balance inner-l2 { ether-type| vlan| src-dest-mac| (symmetric|non-symmetric) }
```

Configure src dest ipv4 address based

Source Destination IPV4 based load balancing

This command is supported when following feature are enabled L3 feature,dnx feature and following feature are disabled marvell feature

Attribute Name: src-dest-ipv4-address-based

Attribute Type: empty

Attribute Name: protocol-id-based

Attribute Type: empty

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
   <ipv4>
      <inner-ipv4>
      <config>
             </protocol-id-based><!-- operation="delete"-->
             <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
             </src-dest-ipv4-address-based><!-- operation="delete"-->
      </config>
   </inner-ipv4>
</ipv4>
</load-balance>
</hardware>
```

Command Syntax

```
 load-balance inner-ipv4 { src-dest-ipv4| protocol-id| (symmetric|non-symmetric) }
```

Configure symmetric type

Non-symmetrical based load balancing

This command is supported when following feature are enabled dnx feature and following feature are disabled marvell feature

Attribute Name: symmetric-type

Attribute Type: enum (symmetric|non-symmetric)

Attribute Name: src-dest-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<load-balance>
   <l4-port>
   <config>
          </src-dest-based><!-- operation="delete"-->
          <symmetric-type>symmetric</symmetric-type> <!-- operation="delete"-->
   </config>
</l4-port>
```

```
</load-balance>
</hardware>
```

Command Syntax

```
load-balance src-dest-l4port ((symmetric|non-symmetric)|)
```

IPI-PLATFORM-CMIS

Configure fp port

Front port panel number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: fp-port

Attribute Type: uint8

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd> <!-- operation="delete"-->
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
qsfp-dd <0-255>
```

Configure application

Application configuration

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: application

Attribute Type: uint8

Attribute Range: 2-15

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
   <application>2</application> <!-- operation="delete"-->
</qsfp-dd>
```

```
</qsfp-dds>
```

Command Syntax

```
application <2-15>
```

Configure service disable

To disable the service for a particular port

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: service-disable

Attribute Type: empty

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
   </service-disable><!-- operation="delete"-->
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
service-disable
```

Configure custom app host id

Configuration of custom application host ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: custom-app-host-id

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
   <custom-app-host-id>1</custom-app-host-id> <!-- operation="delete"-->
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
custom-app-host-id <1-32>
```

Configure custom app media id

Configuration of custom application media ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: custom-app-media-id

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
   <custom-app-media-id>1</custom-app-media-id> <!-- operation="delete"-->
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 custom-app-media-id <1-32>
```

Configure type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<prbs>
<generator>
<config>
       <type>31q</type> <!-- operation="delete"-->
</config>
</generator>
</prbs>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs generator type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) host
```

Configure location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<prbs>
<generator>
<config>
      <location>pre-fec</location> <!-- operation="delete"-->
</config>
</generator>
</prbs>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs generator (pre-fec|post-fec) host
```

Configure checker type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
```

```
<prbs>
<checker>
<config>
       <type>31q</type> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs checker type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) host
```

Configure checker location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<prbs>
<checker>
<config>
       <location>pre-fec</location> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs checker (pre-fec|post-fec) host
```

Configure loopback type

Loopback type

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (in|out|both)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<loopback>
<config>
       <type>in</type> <!-- operation="delete"-->
</config>
</loopback>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 loopback (in|out|both) host
```

Configure lane number

Host lane number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: lane-number

Attribute Type: uint8

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<lanes>
<lane> <!-- operation="delete"-->
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
host-lane <1-32>
```

Configure id

Threshold ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: id

Attribute Type: enum (tx-fdd|tx-fed)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold> <!-- operation="delete"-->
      <id>tx-fdd</id>
      <config>
         <id>tx-fdd</id>
      </config>
   </threshold>
</thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
threshold (tx-fdd|tx-fed)
```

Configure high alarm

High alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold>
      <id>tx-fdd</id>
      <config>
         <id>tx-fdd</id>
      </config>
         <high-alarm>VALUE</high-alarm> <!-- operation="delete"-->
   </threshold>
</thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 ha VALUE
```

Configure low alarm

Low alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<lanes>
```

```
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold>
      <id>tx-fdd</id>
      <config>
         <id>tx-fdd</id>
      </config>
         <low-alarm>VALUE</low-alarm> <!-- operation="delete"-->
   </threshold>
</thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 la VALUE
```

Configure high warning

High warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-warning

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold>
      <id>tx-fdd</id>
      <config>
         <id>tx-fdd</id>
```

```
        </config>
           <high-warning>VALUE</high-warning> <!-- operation="delete"-->
    </threshold>
</thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 hw VALUE
```

Configure low warning

Low warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-warning

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
    <fp-port>0</fp-port>
    <config>
        <fp-port>0</fp-port>
    </config>
<host>
<lanes>
<lane>
    <lane-number>1</lane-number>
    <config>
        <lane-number>1</lane-number>
    </config>
    <thresholds>
    <threshold>
        <id>tx-fdd</id>
        <config>
            <id>tx-fdd</id>
        </config>
            <low-warning>VALUE</low-warning> <!-- operation="delete"-->
    </threshold>
</thresholds>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
lw VALUE
```

Configure tx input equalizer target

Tx input equalizer target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-input-equalizer-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <host>
   <lanes>
   <lane>
      <lane-number>1</lane-number>
      <config>
         <lane-number>1</lane-number>
      </config>
      <signal-integrity>
      <config>
            <tx-input-equalizer-target>1</tx-input-equalizer-target> <!--
operation="delete"-->
      </config>
   </signal-integrity>
   </lane>
   </lanes>
   </host>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
tx-input eq-target <1-15>
```

Configure rx output equalizer pre cursor target

Rx output equalizer pre-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-pre-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <host>
   <lanes>
   <lane>
      <lane-number>1</lane-number>
      <config>
         <lane-number>1</lane-number>
      </config>
      <signal-integrity>
      <config>
            <rx-output-equalizer-pre-cursor-target>1</rx-output-equalizer-pre-cursor-
target> <!-- operation="delete"-->
      </config>
   </signal-integrity>
   </lane>
   </lanes>
   </host>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    rx-output eq-pre-cursor-target <1-15>
```

Configure rx output equalizer post cursor target

Rx output equalizer post-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-post-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <host>
   <lanes>
```

```
   <lane>
      <lane-number>1</lane-number>
      <config>
         <lane-number>1</lane-number>
      </config>
      <signal-integrity>
      <config>
            <rx-output-equalizer-post-cursor-target>1</rx-output-equalizer-post-
cursor-target> <!-- operation="delete"-->
      </config>
   </signal-integrity>
   </lane>
   </lanes>
   </host>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    rx-output eq-post-cursor-target <1-15>
```

Configure rx output amplitude target

Rx output equalizer amplitude target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-amplitude-target

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <host>
   <lanes>
   <lane>
      <lane-number>1</lane-number>
      <config>
         <lane-number>1</lane-number>
      </config>
      <signal-integrity>
      <config>
            <rx-output-amplitude-target>0</rx-output-amplitude-target> <!--
operation="delete"-->
      </config>
   </signal-integrity>
   </lane>
```

```
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
rx-output amp-target <0-15>
```

Configure tx cdr bypass

Bypass the TX CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <signal-integrity>
   <config>
          </tx-cdr-bypass><!-- operation="delete"-->
   </config>
</signal-integrity>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
tx cdr-bypass
```

Configure rx cdr bypass

Bypass the CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<host>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <signal-integrity>
   <config>
         </rx-cdr-bypass><!-- operation="delete"-->
   </config>
</signal-integrity>
</lane>
</lanes>
</host>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 rx cdr-bypass
```

Configure generator type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<prbs>
<generator>
<config>
      <type>31q</type> <!-- operation="delete"-->
```

```
</config>
</generator>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs generator type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) media
```

Configure generator location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<prbs>
<generator>
<config>
      <location>pre-fec</location> <!-- operation="delete"-->
</config>
</generator>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs generator (pre-fec|post-fec) media
```

Configure checker type

PRBS pattern type for generator/checker

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<prbs>
<checker>
<config>
      <type>31q</type> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs checker type (31q|31|23q|23|15q|15|13q|13|9q|9|7q|7|ssprq) media
```

Configure checker location

PRBS pattern generator/checker location

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: location

Attribute Type: enum (pre-fec|post-fec)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<prbs>
<checker>
<config>
      <location>pre-fec</location> <!-- operation="delete"-->
</config>
</checker>
</prbs>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
prbs checker (pre-fec|post-fec) media
```

Configure loopback type

Loopback type

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: type

Attribute Type: enum (in|out|both)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<loopback>
<config>
      <type>in</type> <!-- operation="delete"-->
</config>
</loopback>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
loopback (in|out|both) media
```

Configure lanes lane-number

Media lane number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: lane-number

Attribute Type: uint8

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<lanes>
<lane> <!-- operation="delete"-->
```

```
    <lane-number>1</lane-number>
    <config>
       <lane-number>1</lane-number>
    </config>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
media-lane <1-32>
```

Configure channel

Channel number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: channel

Attribute Type: int16

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
    <fp-port>0</fp-port>
    <config>
       <fp-port>0</fp-port>
    </config>
<media>
<lanes>
<lane>
    <lane-number>1</lane-number>
    <config>
       <lane-number>1</lane-number>
    </config>
    <laser>
    <config>
          <channel>0</channel>
    </config>
</laser>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser channel <-32768-32767>
```

Configure grid

Grid spacing

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: grid

Attribute Type: enum (3p125|6p25|12p5|25|33|50|75|100)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <laser>
   <config>
         <grid>3p125</grid> <!-- operation="delete"-->
   </config>
</laser>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 laser grid (3p125|6p25|12p5|25|33|50|75|100)
```

Configure fine tune freq

Fine tune frequency offset

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: fine-tune-freq

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
```

```
        <fp-port>0</fp-port>
    </config>
<media>
<lanes>
<lane>
    <lane-number>1</lane-number>
    <config>
        <lane-number>1</lane-number>
    </config>
    <laser>
    <config>
           <fine-tune-freq>VALUE</fine-tune-freq> <!-- operation="delete"-->
    </config>
</laser>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 laser fine-tune-freq VALUE
```

Configure output power

Targeted output power

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: output-power

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
    <fp-port>0</fp-port>
    <config>
        <fp-port>0</fp-port>
    </config>
<media>
<lanes>
<lane>
    <lane-number>1</lane-number>
    <config>
        <lane-number>1</lane-number>
    </config>
    <laser>
    <config>
           <output-power>VALUE</output-power> <!-- operation="delete"-->
    </config>
</laser>
```

```
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser output-power VALUE
```

Configure thresholds id

Threshold ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: id

Attribute Type: enum (rx-fdd|rx-fed|rx-total-power|rx-signal-power)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold> <!-- operation="delete"-->
      <id>rx-fdd</id>
      <config>
         <id>rx-fdd</id>
      </config>
   </threshold>
</thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
threshold (rx-fdd|rx-fed|rx-total-power|rx-signal-power)
```

Configure threshold high-alarm

High alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold>
      <id>rx-fdd</id>
      <config>
         <id>rx-fdd</id>
      </config>
         <high-alarm>VALUE</high-alarm> <!-- operation="delete"-->
   </threshold>
</thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 ha VALUE
```

Configure threshold low-alarm

Low alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold>
      <id>rx-fdd</id>
      <config>
         <id>rx-fdd</id>
      </config>
         <low-alarm>VALUE</low-alarm> <!-- operation="delete"-->
   </threshold>
</thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
la VALUE
```

Configure threshold high-warning

High warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-warning

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<lanes>
```

```
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold>
      <id>rx-fdd</id>
      <config>
         <id>rx-fdd</id>
      </config>
         <high-warning>VALUE</high-warning> <!-- operation="delete"-->
   </threshold>
</thresholds>
</lane>
</lanes>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 hw VALUE
```

Configure threshold low-warning

Low warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-warning

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<media>
<lanes>
<lane>
   <lane-number>1</lane-number>
   <config>
      <lane-number>1</lane-number>
   </config>
   <thresholds>
   <threshold>
      <id>rx-fdd</id>
      <config>
         <id>rx-fdd</id>
```

```
          </config>
             <low-warning>VALUE</low-warning> <!-- operation="delete"-->
       </threshold>
   </thresholds>
   </lane>
   </lanes>
   </media>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    lw VALUE
```

Configure tx filter type

Configuration of media lane tx filter type provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <media>
   <lanes>
   <lane>
      <lane-number>1</lane-number>
      <config>
         <lane-number>1</lane-number>
      </config>
      <provisions>
      <config>
            <tx-filter-type>root-raised-cosine</tx-filter-type> <!--
operation="delete"-->
      </config>
   </provisions>
   </lane>
   </lanes>
   </media>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    tx-shaping (root-raised-cosine|raised-cosine|gaussian)
```

Configure tx filter roll off

Configuration of media lane tx filter roll off factor provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-roll-off

Attribute Type: decimal64

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <media>
   <lanes>
   <lane>
      <lane-number>1</lane-number>
      <config>
         <lane-number>1</lane-number>
      </config>
      <provisions>
      <config>
            <tx-filter-type>root-raised-cosine</tx-filter-type> <!--
operation="delete"-->
            <tx-filter-roll-off>VALUE</tx-filter-roll-off> <!-- operation="delete"-->
      </config>
   </provisions>
   </lane>
   </lanes>
   </media>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    tx-shaping (root-raised-cosine|raised-cosine|gaussian) (beta VALUE|)
```

Configure laser channel

Channel number

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: channel

Attribute Type: int16

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<laser>
<config>
      <channel>0</channel>
</config>
</laser>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser channel <-32768-32767>
```

Configure laser grid

Grid spacing

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: grid

Attribute Type: enum (3p125|6p25|12p5|25|33|50|75|100)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<laser>
<config>
      <grid>3p125</grid> <!-- operation="delete"-->
</config>
</laser>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser grid (3p125|6p25|12p5|25|33|50|75|100)
```

Configure laser fine-tune-freq

Fine tune frequency offset

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: fine-tune-freq

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<laser>
<config>
       <fine-tune-freq>VALUE</fine-tune-freq> <!-- operation="delete"-->
</config>
</laser>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 laser fine-tune-freq VALUE
```

Configure laser output-power

Targeted output power

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: output-power

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<laser>
<config>
       <output-power>VALUE</output-power> <!-- operation="delete"-->
</config>
</laser>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 laser output-power VALUE
```

Configure thresholds id

Threshold ID

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: id

Attribute Type: enum (rx-fdd|rx-fed|rx-total-power|rx-signal-power|tx-fdd|tx-fed)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<thresholds>
<threshold> <!-- operation="delete"-->
   <id>rx-fdd</id>
   <config>
      <id>rx-fdd</id>
   </config>
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
threshold (rx-fdd|rx-fed|rx-total-power|rx-signal-power|tx-fdd|tx-fed)
```

Configure threshold high-alarm

High alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<thresholds>
<threshold>
   <id>rx-fdd</id>
   <config>
      <id>rx-fdd</id>
```

```
    </config>
       <high-alarm>VALUE</high-alarm> <!-- operation="delete"-->
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
ha VALUE
```

Configure threshold low-alarm

Low alarm threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-alarm

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<thresholds>
<threshold>
   <id>rx-fdd</id>
   <config>
      <id>rx-fdd</id>
   </config>
      <low-alarm>VALUE</low-alarm> <!-- operation="delete"-->
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
la VALUE
```

Configure threshold high-warning

High warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: high-warning

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<thresholds>
<threshold>
   <id>rx-fdd</id>
   <config>
      <id>rx-fdd</id>
   </config>
      <high-warning>VALUE</high-warning> <!-- operation="delete"-->
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
 hw VALUE
```

Configure threshold low-warning

Low warn threshold

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: low-warning

Attribute Type: decimal64

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<thresholds>
<threshold>
   <id>rx-fdd</id>
   <config>
      <id>rx-fdd</id>
   </config>
      <low-warning>VALUE</low-warning> <!-- operation="delete"-->
</threshold>
</thresholds>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
lw VALUE
```

Configure signal-integrity tx-input-equalizer-target

Tx input equalizer target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-input-equalizer-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <signal-integrity>
   <config>
         <tx-input-equalizer-target>1</tx-input-equalizer-target> <!--
operation="delete"-->
   </config>
   </signal-integrity>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
tx-input eq-target <1-15>
```

Configure signal-integrity rx-output-equalizer-pre-cursor-target

Rx output equalizer pre-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-pre-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <signal-integrity>
```

```
   <config>
         <rx-output-equalizer-pre-cursor-target>1</rx-output-equalizer-pre-cursor-
target> <!-- operation="delete"-->
   </config>
   </signal-integrity>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    rx-output eq-pre-cursor-target <1-15>
```

Configure signal-integrity rx-output-equalizer-post-cursor-target

Rx output equalizer post-cursor target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-equalizer-post-cursor-target

Attribute Type: uint8

Attribute Range: 1-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <signal-integrity>
   <config>
         <rx-output-equalizer-post-cursor-target>1</rx-output-equalizer-post-cursor-
target> <!-- operation="delete"-->
   </config>
   </signal-integrity>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    rx-output eq-post-cursor-target <1-15>
```

Configure signal-integrity rx-output-amplitude-target

Rx output equalizer amplitude target value code

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-output-amplitude-target

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <signal-integrity>
   <config>
         <rx-output-amplitude-target>0</rx-output-amplitude-target> <!--
operation="delete"-->
   </config>
   </signal-integrity>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    rx-output amp-target <0-15>
```

Configure signal-integrity tx-cdr-bypass

Bypass the TX CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <signal-integrity>
   <config>
         </tx-cdr-bypass><!-- operation="delete"-->
   </config>
   </signal-integrity>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    tx cdr-bypass
```

Configure signal-integrity rx-cdr-bypass

Bypass the CDR control

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: rx-cdr-bypass

Attribute Type: empty

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<signal-integrity>
<config>
      </rx-cdr-bypass><!-- operation="delete"-->
</config>
</signal-integrity>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
rx cdr-bypass
```

Configure interval

Configuration of gating interval

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: interval

Attribute Type: enum (5|10|30|60|120|300|vendor-specific)

Netconf edit-config payload

```
<qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<qsfp-dd>
   <fp-port>0</fp-port>
   <config>
      <fp-port>0</fp-port>
   </config>
<gating>
<config>
      <interval>5</interval> <!-- operation="delete"-->
</config>
</gating>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
gating interval (5|10|30|60|120|300|vendor-specific)
```

Configure provisions tx-filter-type

Configuration of media lane tx filter type provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <provisions>
   <config>
         <tx-filter-type>root-raised-cosine</tx-filter-type> <!-- operation="delete"--
>
   </config>
   </provisions>
   </qsfp-dd>
   </qsfp-dds>
```

Command Syntax

```
    tx-shaping (root-raised-cosine|raised-cosine|gaussian)
```

Configure provisions tx-filter-roll-off

Configuration of media lane tx filter roll off factor provisioning

This command is supported when following feature are disabled XCVR CLI model

Attribute Name: tx-filter-roll-off

Attribute Type: decimal64

Attribute Name: tx-filter-type

Attribute Type: enum (root-raised-cosine|raised-cosine|gaussian)

Netconf edit-config payload

```
   <qsfp-dds xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
   <qsfp-dd>
      <fp-port>0</fp-port>
      <config>
         <fp-port>0</fp-port>
      </config>
   <provisions>
   <config>
         <tx-filter-type>root-raised-cosine</tx-filter-type> <!-- operation="delete"--
>
         <tx-filter-roll-off>VALUE</tx-filter-roll-off> <!-- operation="delete"-->
```

```
</config>
</provisions>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
tx-shaping (root-raised-cosine|raised-cosine|gaussian) (beta VALUE|)
```

tibit-olt-microplug set interface IFNAME management-vlan-tpid (0x8100|0x88a8)

Attribute Name: interface-name

Attribute Type: string

Attribute Name: vlan-tpid

Attribute Type: string

Netconf RPC payload

```
<ipi-platform-transceiver-tibit_tibit-olt-microplug-set-management-vlan-tpid
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interface-name>IFNAME</interface-name>
<vlan-tpid>0x8100</vlan-tpid>
</ipi-platform-transceiver-tibit_tibit-olt-microplug-set-management-vlan-tpid>
```

Command Syntax

```
tibit-olt-microplug set interface IFNAME management-vlan-tpid (0x8100|0x88a8)
```

tibit-olt-microplug set interface IFNAME management-vlan-id <1-4094>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf RPC payload

```
<ipi-platform-transceiver-tibit_tibit-olt-microplug-set-management-vlan-id
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<interface-name>IFNAME</interface-name>
<vlan-id>1</vlan-id>
</ipi-platform-transceiver-tibit_tibit-olt-microplug-set-management-vlan-id>
```

Command Syntax

```
tibit-olt-microplug set interface IFNAME management-vlan-id <1-4094>
```

tibit-olt-microplug set interface IFNAME ethernet-mac-address XX:XX:XX:XX:XX:XX

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mac-address

Attribute Type: yang:mac-address

Netconf RPC payload

```
       <ipi-platform-transceiver-tibit_tibit-olt-microplug-set-ethernet-mac-address
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
       <interface-name>IFNAME</interface-name>
       <mac-address>XX:XX:XX:XX:XX:XX</mac-address>
       </ipi-platform-transceiver-tibit_tibit-olt-microplug-set-ethernet-mac-address>
```

Command Syntax

```
    tibit-olt-microplug set interface IFNAME ethernet-mac-address XX:XX:XX:XX:XX:XX
```

tibit-olt-microplug set interface IFNAME next-active-firmware-bank-id <0-3>

Attribute Name: interface-name

Attribute Type: string

Attribute Name: bank-id

Attribute Type: uint8

Attribute Range: 0-3

Netconf RPC payload

```
       <ipi-platform-transceiver-tibit_tibit-olt-microplug-set-next-active-firmware-
bank xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
       <interface-name>IFNAME</interface-name>
       <bank-id>0</bank-id>
       </ipi-platform-transceiver-tibit_tibit-olt-microplug-set-next-active-firmware-
bank>
```

Command Syntax

```
    tibit-olt-microplug set interface IFNAME next-active-firmware-bank-id <0-3>
```

tibit-olt-microplug reboot interface IFNAME

Attribute Name: interface-name

Attribute Type: string

Netconf RPC payload

```
       <ipi-platform-transceiver-tibit_tibit-olt-microplug-reboot xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-platform">
       <interface-name>IFNAME</interface-name>
       </ipi-platform-transceiver-tibit_tibit-olt-microplug-reboot>
```

Command Syntax

```
tibit-olt-microplug reboot interface IFNAME
```

IPI-PLATFORM-TRANSCEIVER-SMART-SFP

Configure xcvr loopback remote

Use this attribute to set TX/RX loopback for remote

Attribute Name: xcvr-loopback-remote

Attribute Type: enum (in|out)

Netconf edit-config payload

```
   <smart-sfp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-transceiver-smart-sfp">
   <interfaces>
   <interface>
      <interface-name>IFNAME</interface-name>
      <config>
         <interface-name>WORD</interface-name>
      </config>
      <xcvr-loopback-remote>in</xcvr-loopback-remote> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </smart-sfp>
```

Command Syntax

```
xcvr loopback (in|out) remote
```

xcvr IFNAME tx-disable <1-256> remote

Attribute Name: if-name

Attribute Type: string

Attribute Name: xcvr-tx-disable-duration

Attribute Type: uint16

Attribute Range: 1-256

Netconf RPC payload

```
      <smart-sfp-xcvr-txdisable-duration xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-transceiver-smart-sfp">
      <if-name>IFNAME</if-name>
      <xcvr-tx-disable-duration>1</xcvr-tx-disable-duration>
      </smart-sfp-xcvr-txdisable-duration>
```

Command Syntax

```
xcvr IFNAME tx-disable <1-256> remote
```

xcvr IFNAME reset remote

Attribute Name: if-name

Attribute Type: string

Netconf RPC payload

```
       <smart-sfp-xcvr-reset-remote xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
platform-transceiver-smart-sfp">
       <if-name>IFNAME</if-name>
       </smart-sfp-xcvr-reset-remote>
```

Command Syntax

```
     xcvr IFNAME reset remote
```

IPI-AUTHENTICATION

Configure mac authentication

Use this attribute to enable MAC authentication globally. If MAC authentication is not enabled, other MAC authentication related commands throw an error when issued.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: mac-authentication

Attribute Type: empty

Netconf edit-config payload

```
   <authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
   <global>
   <config>
      </mac-authentication><!-- operation="delete"-->
   </config>
   </global>
   </authentication>
```

Command Syntax

```
     auth-mac system-auth-ctrl
```

Configure dot1x authentication

Use this attribute to enable globally authentication.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: dot1x-authentication

Attribute Type: empty

Netconf edit-config payload

```
   <authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
```

```
<global>
<config>
   </dot1x-authentication><!-- operation="delete"-->
</config>
</global>
</authentication>
```

Command Syntax

```
dot1x system-auth-ctrl
```

Configure dot1x control

Use this attribute to enable or disable the 802.1X authentication control on an interface.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: dot1x-control

Attribute Type: enum (force-unauthorized|force-authorized|auto)

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <dot1x-control>force-authorized</dot1x-control>
</dot1x-interface>
</dot1x-interfaces>
</authentication>
```

Command Syntax

```
dot1x port-control (force-unauthorized|force-authorized|auto)
```

Configure protocol version

Use this attribute to set the protocol version of dot1x to 1 or 2. The protocol version must be synchronized with the Xsupplicant being used in that interface.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: protocol-version

Attribute Type: enum (1|2)

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
```

```
        <name>WORD</name>
      </config>
      <protocol-version>2</protocol-version> <!-- operation="delete"-->
  </dot1x-interface>
  </dot1x-interfaces>
  </authentication>
```

Command Syntax

```
dot1x protocol-version (1|2)
```

Configure quiet period

Use this attribute to set the quiet-period time interval.When a switch cannot authenticate a client, the switch remains idle for a quiet-period interval of time, then tries again. By administratively changing the quiet-period interval, by entering a lower number than the default, a faster response time can be provided

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: quiet-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
  <authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
  <dot1x-interfaces>
  <dot1x-interface>
      <name>WORD</name>
      <config>
          <name>WORD</name>
      </config>
  <authenticator-pae>
  <config>
         <quiet-period>1</quiet-period> <!-- operation="delete"-->
  </config>
  </authenticator-pae>
  </dot1x-interface>
  </dot1x-interfaces>
  </authentication>
```

Command Syntax

```
dot1x quiet-period <1-65535>
```

Configure max reauth value

Use this attribute to set the maximum reauthentication value, which sets the maximum number of reauthentication attempts after which the port will be unauthorized.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: max-reauth-value

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<authenticator-pae>
<config>
      <max-reauth-value>1</max-reauth-value> <!-- operation="delete"-->
</config>
</authenticator-pae>
</dot1x-interface>
</dot1x-interfaces>
</authentication>
```

Command Syntax

```
 dot1x reauthMax <1-10>
```

Configure interval period

Use this attribute to set the interval between successive attempts to request an ID.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: interval-period

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<authenticator-pae>
<config>
      <interval-period>1</interval-period> <!-- operation="delete"-->
</config>
</authenticator-pae>
</dot1x-interface>
</dot1x-interfaces>
</authentication>
```

Command Syntax

```
dot1x timeout tx-period <1-65535>
```

Configure reauthentication period

Use this attribute to set the interval between reauthorization attempts.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: reauthentication-period

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<reauthentication-timer>
<config>
       <reauthentication-period>1</reauthentication-period> <!-- operation="delete"-
->
</config>
</reauthentication-timer>
</dot1x-interface>
</dot1x-interfaces>
</authentication>
```

Command Syntax

```
dot1x timeout re-authperiod <1-4294967295>
```

Configure enable reauthentication

Use this attribute to enable reauthentication on a port.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: enable-reauthentication

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
   <reauthentication-timer>
   <config>
          </enable-reauthentication><!-- operation="delete"-->
   </config>
   </reauthentication-timer>
   </dot1x-interface>
   </dot1x-interfaces>
   </authentication>
```

Command Syntax

```
    dot1x reauthentication
```

Configure enable mac auth bypass

Use this attribute to enable/disable mac-auth-bypass on a port.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: enable-mac-auth-bypass

Attribute Type: enum (enable|disable)

Netconf edit-config payload

```
   <authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
   <dot1x-interfaces>
   <dot1x-interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <reauthentication-timer>
   <config>
          <enable-mac-auth-bypass>enable</enable-mac-auth-bypass> <!--
operation="delete"-->
   </config>
   </reauthentication-timer>
   </dot1x-interface>
   </dot1x-interfaces>
   </authentication>
```

Command Syntax

```
    dot1x mac-auth-bypass (enable|disable)
```

Configure supplicant timeout

Use this attribute to set the interval for a supplicant to respond.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: supplicant-timeout

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<authenticator-be>
<config>
       <supplicant-timeout>1</supplicant-timeout> <!-- operation="delete"-->
</config>
</authenticator-be>
</dot1x-interface>
</dot1x-interfaces>
</authentication>
```

Command Syntax

```
dot1x timeout supp-timeout <1-65535>
```

Configure server timeout

Use this attribute to set the authentication server response timeout.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: server-timeout

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<dot1x-interfaces>
<dot1x-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<authenticator-be>
<config>
       <server-timeout>1</server-timeout> <!-- operation="delete"-->
</config>
</authenticator-be>
</dot1x-interface>
</dot1x-interfaces>
</authentication>
```

Command Syntax

```
dot1x timeout server-timeout <1-65535>
```

Configure mac control

Use this attribute to enable or disable the MAC authentication control on an interface.

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: mac-control

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<mac-interfaces>
<mac-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </mac-control>
</mac-interface>
</mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac
```

Configure mac mode

Use this attribute to enable or disable the MAC authentication mode on an interface.

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: mac-mode

Attribute Type: enum (filter|shutdown)

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<mac-interfaces>
<mac-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <mac-mode>shutdown</mac-mode> <!-- operation="delete"-->
</mac-interface>
</mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac mode (filter|shutdown)
```

Configure dynamic vlan creation

Use this attribute to enable or disable dynamic VLAN creation after successful MAC authentication.

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: dynamic-vlan-creation

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<mac-interfaces>
<mac-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </dynamic-vlan-creation><!-- operation="delete"-->
</mac-interface>
</mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac dynamic-vlan-creation
```

Configure mac address aging

Use this attribute to either enable or disable MAC aging. When enabled, a MAC entry is added to the forwarding database, with aging time equal to the bridge aging time. Otherwise, the MAC entry will not be aged out. If MAC aging is disabled, the MAC entry will not be aged out

This command is supported when following feature are enabled MAC_AUTH feature,HAVE_AUTHD feature

Attribute Name: mac-address-aging

Attribute Type: empty

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<mac-interfaces>
<mac-interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </mac-address-aging><!-- operation="delete"-->
</mac-interface>
</mac-interfaces>
</authentication>
```

Command Syntax

```
auth-mac mac-aging
```

Configure options

Use this attribute to turn on or turn off 802.1x debugging at various levels.

This command is supported when following feature are enabled HAVE_AUTHD feature

Attribute Name: options

Attribute Type: bits (event|timer|packet|nsm|all)

Netconf edit-config payload

```
<authentication xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-authentication">
<debug>
<config>
   <options>event</options> <!-- operation="delete"-->
</config>
</debug>
</authentication>
```

Command Syntax

```
debug dot1x (event|timer|packet|nsm|all)
```

dot1x initialize interface IFNAME

Attribute Name: name

Attribute Type: string

Attribute Range: 1-33

Netconf RPC payload

```
      <dot1x-authentication-initialize-interface xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-authentication">
      <name>IFNAME</name>
      </dot1x-authentication-initialize-interface>
```

Command Syntax

```
dot1x initialize interface IFNAME
```

snmp restart auth

Netconf RPC payload

```
      <dot1x-authentication-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-authentication"/>
```

Command Syntax

```
snmp restart auth
```

debug dot1x (event|timer|packet|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|timer|packet|nsm|all)

Netconf RPC payload

```
       <dot1x-authentication-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-authentication">
       <terminal-debug-options>event</terminal-debug-options>
       </dot1x-authentication-terminal-debug-on>
```

Command Syntax

```
    debug dot1x (event|timer|packet|nsm|all)
```

no debug dot1x (event|timer|packet|nsm|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|timer|packet|nsm|all)

Netconf RPC payload

```
       <dot1x-authentication-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-authentication">
       <terminal-debug-options>event</terminal-debug-options>
       </dot1x-authentication-terminal-debug-off>
```

Command Syntax

```
    no debug dot1x (event|timer|packet|nsm|all)
```

IPI-AUTHENTICATION-RADIUS

Configure port

Specify the radius client port number. The default port number is 1812.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: source-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <global>
   <config>
      <source-address>A.B.C.D</source-address> <!-- operation="delete"-->
      <port>0</port> <!-- operation="delete"-->
   </config>
```

```
</global>
</authentication-radius>
```

Command Syntax

```
ip radius source-interface A.B.C.D <0-65535>
```

Configure timeout

Use this attribute to set the global timeout which is how long the device waits for a response from a RADIUS server before declaring a timeout failure.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: timeout

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
<global>
<config>
   <timeout>1</timeout> <!-- operation="delete"-->
</config>
</global>
</authentication-radius>
```

Command Syntax

```
radius-server dot1x timeout <1-60>
```

Configure retransmit max retries

Use this attribute to specify the number of times the router transmits each radius request to the server before giving up

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: retransmit-max-retries

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
<global>
<config>
   <retransmit-max-retries>1</retransmit-max-retries> <!-- operation="delete"-->
</config>
</global>
</authentication-radius>
```

Command Syntax

```
radius-server dot1x retransmit <1-100>
```

Configure key string

Use this attribute to set a global preshared key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: key-string

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <global>
   <config>
      <key-string>WORD</key-string> <!-- operation="delete"-->
   </config>
   </global>
   </authentication-radius>
```

Command Syntax

```
 radius-server dot1x key-string WORD
```

Configure encryption key

Use this attribute to set a global preshared key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: encryption-key

Attribute Type: string

Attribute Range: 18-258

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <global>
   <config>
      <encryption-key>WORD</encryption-key> <!-- operation="delete"-->
   </config>
   </global>
   </authentication-radius>
```

Command Syntax

```
 radius-server dot1x key-string encrypted WORD
```

Configure host address

The host-address to configure the radius host.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <hosts>
   <host> <!-- operation="delete"-->
      <host-address>A.B.C.D</host-address>
      <config>
         <host-address>A.B.C.D</host-address>
      </config>
   </host>
   </hosts>
   </authentication-radius>
```

Command Syntax

```
    radius-server dot1x host A.B.C.D
```

Configure host port

Specify the radius client port number. The default port number is 1812.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <hosts>
   <host>
      <host-address>A.B.C.D</host-address>
      <config>
         <host-address>A.B.C.D</host-address>
      </config>
      <host-port>0</host-port> <!-- operation="delete"-->
   </host>
   </hosts>
   </authentication-radius>
```

Command Syntax

```
    auth-port <0-65535>
```

Configure host timeout

Use this attribute to set the timeout which is how long the device waits for a response from a RADIUS server before declaring a timeout failure.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-timeout

Attribute Type: uint8

Attribute Range: 0-60

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <hosts>
   <host>
      <host-address>A.B.C.D</host-address>
      <config>
         <host-address>A.B.C.D</host-address>
      </config>
      <host-timeout>0</host-timeout> <!-- operation="delete"-->
   </host>
   </hosts>
   </authentication-radius>
```

Command Syntax

```
    timeout <0-60>
```

Configure host retransmit max retries

Use this attribute to specify the number of times the router transmits each radius request to the server before giving up.

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: host-retransmit-max-retries

Attribute Type: uint8

Attribute Range: 0-100

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <hosts>
   <host>
      <host-address>A.B.C.D</host-address>
      <config>
         <host-address>A.B.C.D</host-address>
      </config>
      <host-retransmit-max-retries>0</host-retransmit-max-retries> <!--
operation="delete"-->
   </host>
   </hosts>
```

```
   </authentication-radius>
```

Command Syntax

```
    retransmit <0-100>
```

Configure host key-string

Use this attribute to set a key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: key-string

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <hosts>
   <host>
      <host-address>A.B.C.D</host-address>
      <config>
         <host-address>A.B.C.D</host-address>
      </config>
      <key-string>WORD</key-string> <!-- operation="delete"-->
   </host>
   </hosts>
   </authentication-radius>
```

Command Syntax

```
    key-string WORD
```

Configure host encryption-key

Use this attribute to set a key (shared secret) which is a text string shared between the device and RADIUS servers

This command is supported when following feature are enabled OpenSSL crypto library available

Attribute Name: encryption-key

Attribute Type: string

Attribute Range: 18-258

Netconf edit-config payload

```
   <authentication-radius xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
authentication-radius">
   <hosts>
   <host>
      <host-address>A.B.C.D</host-address>
      <config>
         <host-address>A.B.C.D</host-address>
      </config>
```

```
    <encryption-key>WORD</encryption-key> <!-- operation="delete"-->
</host>
</hosts>
</authentication-radius>
```

Command Syntax

```
 key-string encrypted WORD
```

IPI-ACL

Configure type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set> <!-- operation="delete"-->
    <type>ip</type>
    <config>
        <type>ip</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
 ip access-list NAME
```

Configure name

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set> <!-- operation="delete"-->
    <type>ipv6</type>
    <config>
        <type>ipv6</type>
```

```
        <name>WORD</name>
      </config>
      <name>NAME</name>
  </acl-set>
  </acl-sets>
  </acl>
```

Command Syntax

```
ipv6 access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```
  <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
  <acl-set> <!-- operation="delete"-->
     <type>mac</type>
     <config>
        <type>mac</type>
        <name>WORD</name>
     </config>
     <name>NAME</name>
  </acl-set>
  </acl-sets>
  </acl>
```

Command Syntax

```
mac access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```
  <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <acl-sets>
  <acl-set> <!-- operation="delete"-->
     <type>arp</type>
     <config>
        <type>arp</type>
        <name>WORD</name>
     </config>
```

```
    <name>NAME</name>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
 arp access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set> <!-- operation="delete"-->
    <type>copp</type>
    <config>
        <type>copp</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
 ip copp access-list NAME
```

Configure acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the ACL set (e.g., ip, ipv6, etc.)

Attribute Name: type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set> <!-- operation="delete"-->
    <type>ipv6-copp</type>
    <config>
        <type>ipv6-copp</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
</acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
ipv6 copp access-list NAME
```

Configure description

Description, or comment, for the ACL set

Attribute Name: description

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
   <description>LINE</description> <!-- operation="delete"-->
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
remark LINE
```

Configure acl-set description

Description, or comment, for the ACL set

Attribute Name: description

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
```

```
    <name>NAME</name>
    <description>LINE</description> <!-- operation="delete"-->
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
 remark LINE
```

Configure acl-set description

Description, or comment, for the ACL set

Attribute Name: description

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
    <type>mac</type>
    <config>
        <type>mac</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
    <description>LINE</description> <!-- operation="delete"-->
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
 remark LINE
```

Configure ipv6 disable default icmpv6 rule

Use this attribute to inform that the default icmpv6 rule is disable for the IPv6 ACL.

Attribute Name: ipv6-disable-default-icmpv6-rule

Attribute Type: uint8

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
    <type>mac</type>
    <config>
        <type>mac</type>
```

```
        <name>WORD</name>
      </config>
      <name>NAME</name>
      </ipv6-disable-default-icmpv6-rule><!-- operation="delete"-->
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
no 268435453 permit icmpv6 any any
```

Configure acl-set ipv6-disable-default-icmpv6-rule

Use this attribute to inform that the default icmpv6 rule is disable for the IPv6 ACL.

Attribute Name: ipv6-disable-default-icmpv6-rule

Attribute Type: uint8

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
   </ipv6-disable-default-icmpv6-rule><!-- operation="delete"-->
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
no 268435453
```

Configure starting sequence number

Use this attribute to set starting sequence number for resequencing

Attribute Name: starting-sequence-number

Attribute Type: uint32

Attribute Range: 1-268435453

Attribute Name: increment-steps

Attribute Type: uint32

Attribute Range: 1-268435453

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <re-sequence>
   <config>
          <increment-steps>1</increment-steps> <!-- operation="delete"-->
          <starting-sequence-number>1</starting-sequence-number> <!--
operation="delete"-->
   </config>
   </re-sequence>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    resequence <1-268435453> <1-268435453>
```

Configure increment steps

Use this attribute to set starting sequence number for resequencing

Attribute Name: starting-sequence-number

Attribute Type: uint32

Attribute Range: 1-268435453

Attribute Name: increment-steps

Attribute Type: uint32

Attribute Range: 1-268435453

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <re-sequence>
   <config>
          <increment-steps>1</increment-steps> <!-- operation="delete"-->
```

```
          <starting-sequence-number>1</starting-sequence-number> <!--
operation="delete"-->
   </config>
   </re-sequence>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    resequence <1-268435453> <1-268435453>
```

Configure re-sequence starting-sequence-number

Use this attribute to set starting sequence number for resequencing

Attribute Name: starting-sequence-number

Attribute Type: uint32

Attribute Range: 1-268435453

Attribute Name: increment-steps

Attribute Type: uint32

Attribute Range: 1-268435453

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <re-sequence>
   <config>
          <increment-steps>1</increment-steps> <!-- operation="delete"-->
          <starting-sequence-number>1</starting-sequence-number> <!--
operation="delete"-->
   </config>
   </re-sequence>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    resequence <1-268435453> <1-268435453>
```

Configure forwarding action default

Use this attribute to set default forwarding action

Attribute Name: forwarding-action-default

Attribute Type: enum (deny-all|permit-all)

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
    <acl-sets>
    <acl-set>
       <type>mac</type>
       <config>
          <type>mac</type>
          <name>WORD</name>
       </config>
       <name>NAME</name>
    <default-actions>
    <config>
          <forwarding-action-default>deny-all</forwarding-action-default> <!--
operation="delete"-->
    </config>
    </default-actions>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     default (deny-all|permit-all)
```

Configure inner vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
   </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
  (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure sequence id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
   </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7|<0-63>) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-
  4094>|) (inner-vlan <1-4094>|)
```

Configure forwarding action

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
```

```
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <precedence>routine</precedence> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (any) precedence
      (routine|priority|immediate|flash|flashoverride|critical|internet|network|<0-7>)
      ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure protocol tcp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
```

```
65535>) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-
4094>|)
```

Configure source address

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
```

```
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls) dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure destination address

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
             <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
```

```
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure lower destination port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

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Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535>
      ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure upper destination port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
```

```
       <config>
              <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!-- operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure precedence

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
             <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source port operator

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
```

```
          <type>mac</type>
          <name>WORD</name>
       </config>
       <name>NAME</name>
    <acl-entries>
    <acl-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
             <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
    </ipv4>
    </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
      65535>) (any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure tcp source port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
```

```
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
             <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
             <dscp>default</dscp> <!-- operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls) dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure destination port operator

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
    <type>mac</type>
    <config>
        <type>mac</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
```

```
       </config>
       <ipv4>
       <config>
              <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
              <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!-- operation="delete"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
              <precedence>routine</precedence> <!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      precedence
      (routine|priority|immediate|flash|flashoverride|critical|internet|network)
      ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure tcp flags

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
```

```
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
              <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!-- operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
       (echo|discard|daytime|chargen|ftp-
       data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
       2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
       rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
       (any) range <0-65535> <0-65535> ({ack|established|fin|psh|rst|syn|urg}|) (vlan
       <1-4094>|) (inner-vlan <1-4094>|)
```

Configure dscp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
```

```
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (any) range <0-65535> <0-65535> dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
  (inner-vlan <1-4094>|)
```

Configure vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
            <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <precedence>routine</precedence> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
```

```
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (any) range <0-65535> <0-65535> precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-
      4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
```

```
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
              <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
              <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!-- operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
    </ipv4>
    </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
       (echo|discard|daytime|chargen|ftp-
       data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
       2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
       rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
       (any) dscp
       (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
       af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
       (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
```

```
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (any) precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure lower source port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
             <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
             <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
```

```
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure upper source port in range

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls) dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure tcp destination port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
```

```
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
            <precedence>routine</precedence> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      precedence
      (routine|priority|immediate|flash|flashoverride|critical|internet|network)
      ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
```

```
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
              <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
              </protocol-tcp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!-- operation="delete"-->
              <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
              <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
              <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
      65535> <0-65535> ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-tcp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
```

```
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
      65535> <0-65535> dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
             <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
```

```
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <precedence>routine</precedence> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
      65535> <0-65535> precedence
      (routine|priority|immediate|flash|flashoverride|critical|internet|network)
      ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
             <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any)
      ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
    <type>mac</type>
    <config>
        <type>mac</type>
        <name>WORD</name>
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
```

```
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-tcp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-tcp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
             <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
             <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure protocol udp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
```

```
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (vlan <1-4094>|) (inner-vlan <1-
4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
```

```
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
       <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-udp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
   </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
 (<1-268435453>|) (deny|permit) udp (any) (any) precedence
   (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
   <1-4094>|) (inner-vlan <1-4094>|)
```

Configure udp destination port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
             <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
```

```
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (vlan <1-4094>|)
  (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
```

```
            <precedence>routine</precedence> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
             <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> (vlan <1-
      4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
```

```
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
             <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> precedence
      (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
      <1-4094>|) (inner-vlan <1-4094>|)
```

Configure udp source port

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
    <acl-sets>
    <acl-set>
        <type>mac</type>
        <config>
            <type>mac</type>
            <name>WORD</name>
        </config>
        <name>NAME</name>
    <acl-entries>
    <acl-entry>
        <sequence-id>1</sequence-id>
        <config>
            <sequence-id>1</sequence-id>
        </config>
        <ipv4>
        <config>
               <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
               </protocol-udp><!-- operation="delete"-->
               <source-address>any</source-address> <!-- operation="delete"-->
               <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
               <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
```

```
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (vlan <1-4094>|) (inner-vlan
  <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
            <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
            <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
            <precedence>routine</precedence> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) precedence
```

```
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
```

```
       <name>NAME</name>
    <acl-entries>
    <acl-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
             <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
    </ipv4>
    </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
      (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
```

```
            <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
      dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
            <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <precedence>routine</precedence> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
  precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
```

```
          <type>mac</type>
          <name>WORD</name>
       </config>
       <name>NAME</name>
    <acl-entries>
    <acl-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
    </ipv4>
    </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
       (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
       s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
       rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (vlan <1-4094>|) (inner-
       vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
            <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
```

```
       <config>
          <type>mac</type>
          <name>WORD</name>
       </config>
       <name>NAME</name>
    <acl-entries>
    <acl-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <source-port-operator>eq</source-port-operator> <!-- operation="delete"--
>
             <udp-source-port>echo</udp-source-port> <!-- operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
    </ipv4>
    </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
       (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
       s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
       rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) precedence
       (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
       <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```

```
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (vlan <1-4094>|) (inner-vlan
  <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
             <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
             <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) precedence
      (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
      <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
```

```
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```

```
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
            <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
             <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <lower-destination-port-in-range>0</lower-destination-port-in-range> <!--
operation="delete"-->
             <upper-destination-port-in-range>0</upper-destination-port-in-range> <!--
operation="delete"-->
             <precedence>routine</precedence> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
```

```
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
```

```
          <type>mac</type>
          <name>WORD</name>
       </config>
       <name>NAME</name>
    <acl-entries>
    <acl-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
             <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
             </protocol-udp><!-- operation="delete"-->
             <source-address>any</source-address> <!-- operation="delete"-->
             <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
             <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
             <destination-address>any</destination-address> <!-- operation="delete"-->
             <vlan-id>1</vlan-id> <!-- operation="delete"-->
             <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
    </ipv4>
    </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (vlan <1-
  4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
   <acl-set>
      <type>mac</type>
      <config>
         <type>mac</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   <acl-entries>
   <acl-entry>
      <sequence-id>1</sequence-id>
      <config>
         <sequence-id>1</sequence-id>
      </config>
      <ipv4>
      <config>
            <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </protocol-udp><!-- operation="delete"-->
            <source-address>any</source-address> <!-- operation="delete"-->
            <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
            <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
            <destination-address>any</destination-address> <!-- operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
```

```
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
```

```
          <name>WORD</name>
       </config>
       <name>NAME</name>
   <acl-entries>
   <acl-entry>
       <sequence-id>1</sequence-id>
       <config>
          <sequence-id>1</sequence-id>
       </config>
       <ipv4>
       <config>
              <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
              </protocol-udp><!-- operation="delete"-->
              <source-address>any</source-address> <!-- operation="delete"-->
              <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
              <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
              <destination-address>any</destination-address> <!-- operation="delete"-->
              <precedence>routine</precedence> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
       </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)
```

Configure protocol icmp

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-icmp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
   </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) (vlan <1-4094>|) (inner-vlan <1-
  4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-icmp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
   </config>
</ipv4>
</acl-entry>
</acl-entries>
```

```
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
```

```
    </config>
    <ipv4>
    <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          </protocol-icmp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)
```

Configure protocol name

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
```

```
    <type>mac</type>
    <config>
       <type>mac</type>
       <name>WORD</name>
    </config>
    <name>NAME</name>
<acl-entries>
<acl-entry>
    <sequence-id>1</sequence-id>
    <config>
       <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any|<0-255>) (any)
  (any) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
   </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) (any) (any)
  dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure ipv4 inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
<acl-set>
   <type>mac</type>
   <config>
      <type>mac</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<acl-entries>
<acl-entry>
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
   <ipv4>
   <config>
          <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
          <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
          <destination-address>any</destination-address> <!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
```

```
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      </config>
   </ipv4>
   </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) (any) (any)
  precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|)
```

Configure standard-acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the standard ACL set (ip, ipv6)

Attribute Name: type

Attribute Type: enum (standard_ip|standard_ipv6)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <standard-acl-sets>
   <standard-acl-set>
      <type>standard_ip</type>
      <config>
         <type>standard_ip</type>
         <name>WORD</name>
      </config>
      <name>NAME</name>
   </standard-acl-set>
   </standard-acl-sets>
   </acl>
```

Command Syntax

```
 ip access-list standard NAME
```

Configure standard-acl-sets type

Type indicates the fields allowed in the ACL entries belonging to the standard ACL set (ip, ipv6)

Attribute Name: type

Attribute Type: enum (standard_ip|standard_ipv6)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <standard-acl-sets>
```

```
<standard-acl-set>
   <type>standard_ipv6</type>
   <config>
      <type>standard_ipv6</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
</standard-acl-set>
</standard-acl-sets>
</acl>
```

Command Syntax

```
ipv6 access-list standard NAME
```

Configure ipv4-acl-entry source-address

Source IPv4 address prefix.

Attribute Name: source-address

Attribute Type: union

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<standard-acl-sets>
<standard-acl-set>
   <type>standard_ip</type>
   <config>
      <type>standard_ip</type>
      <name>WORD</name>
   </config>
   <name>NAME</name>
<ipv4-acl-entries>
<ipv4-acl-entry>
   <source-address>any</source-address>
   <config>
      <source-address>any</source-address>
      <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
   </config>
</ipv4-acl-entry>
</ipv4-acl-entries>
</standard-acl-set>
</standard-acl-sets>
</acl>
```

Command Syntax

```
(deny|permit) (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
```

IPI-ACL-IPV6

Configure vlan id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: dscp

Attribute Type: union

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
```

```
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any|X:X::X:X/M|X:X::X:X X:X::X:X)
      (any|X:X::X:X/M|X:X::X:X X:X::X:X) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7|<0-63>)|) (vlan <1-4094>|)
```

Configure name

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
      65535>) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure type

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
```

```
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure sequence id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
  65535>) (any) (eq|lt|gt) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure forwarding action

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) range <0-65535> <0-65535> (dscp
```

```
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure protocol tcp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
```

```
                </config>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <dscp>default</dscp> <!-- operation="delete"-->
                      <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
             </ipv6>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq|lt|gt)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure source address

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
```

```
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure lower source port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure upper source port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <dscp>default</dscp> <!-- operation="delete"-->
                      <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
             </ipv6>
          </acl-entry>
       </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure protocol udp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure destination address

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
```

```
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure lower destination port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure source port operator

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <ipv6>
```

```
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-udp><!-- operation="delete"-->
                       <source-address>any</source-address> <!-- operation="delete"-->
                       <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                       <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                       <destination-address>any</destination-address> <!--
operation="delete"-->
                       <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                       <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                       <dscp>default</dscp> <!-- operation="delete"-->
                       <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
             </ipv6>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure udp source port

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
```

```
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
      (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure dscp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq|lt|gt)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure destination port operator

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
```

```
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq|lt|gt)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure upper destination port in range

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
```

```
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure protocol icmp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-icmp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
```

```
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmpv6 (any) (any) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure protocol sctp

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
```

```
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-sctp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <dscp>default</dscp> <!-- operation="delete"-->
                      <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
             </ipv6>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) sctp (any) (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure sctp destination port

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-destination-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-sctp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <sctp-destination-port>0</sctp-destination-port> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) sctp (any) (any) (eq|lt|gt) <0-65535> (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
            <type>mac</type>
        <acl-entries>
            <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                    <sequence-id>1</sequence-id>
                </config>
                <ipv6>
```

```
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-sctp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                      <dscp>default</dscp> <!-- operation="delete"-->
                      <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
             </ipv6>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) sctp (any) (any) range <0-65535> <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure sctp source port

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-source-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-sctp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <sctp-source-port>0</sctp-source-port> <!-- operation="delete"-
->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) sctp (any) (eq|lt|gt) <0-65535> (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-source-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-destination-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
            <type>mac</type>
        <acl-entries>
            <acl-entry>
```

```
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <ipv6>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-sctp><!-- operation="delete"-->
                       <source-address>any</source-address> <!-- operation="delete"-->
                       <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                       <sctp-source-port>0</sctp-source-port> <!-- operation="delete"-
->
                       <destination-address>any</destination-address> <!--
operation="delete"-->
                       <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                       <sctp-destination-port>0</sctp-destination-port> <!--
operation="delete"-->
                       <dscp>default</dscp> <!-- operation="delete"-->
                       <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
             </ipv6>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) sctp (any) (eq|lt|gt) <0-65535> (any) (eq|lt|gt) <0-
      65535> (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-source-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-sctp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <sctp-source-port>0</sctp-source-port> <!-- operation="delete"-
->
```

```
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) sctp (any) (eq|lt|gt) <0-65535> (any) range <0-
  65535> <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-sctp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) sctp (any) range <0-65535> <0-65535> (any) (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|lt|gt)

Attribute Name: sctp-destination-port

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
```

```
                </config>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-sctp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                      <sctp-destination-port>0</sctp-destination-port> <!--
operation="delete"-->
                      <dscp>default</dscp> <!-- operation="delete"-->
                      <vlan-id>1</vlan-id> <!-- operation="delete"-->
                </config>
             </ipv6>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) sctp (any) range <0-65535> <0-65535> (any)
      (eq|lt|gt) <0-65535> (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6 vlan-id

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-sctp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: dscp

Attribute Type: enum
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-sctp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
```

```
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) sctp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure protocol name

Use this attribute to set the vlan-id

This command is supported when following feature are enabled IPV6 feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: dscp

Attribute Type: enum (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|af43|cs5|ef|cs6|cs7)

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
    <acl-sets>
        <acl-set>
            <name>NAME</name>
            <config>
```

```
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <dscp>default</dscp> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
               </config>
            </ipv6>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit)
      (ipipv6|ipv6ipv6|rsvp|gre|esp|ahp|ospf|pim|ipcomp|vrrp|any|<0-255>) (any) (any)
      (dscp
      (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
      af43|cs5|ef|cs6|cs7)|) (vlan <1-4094>|)
```

Configure ipv6-acl-entry source-address

Source IPv6 address prefix.

This command is supported when following feature are enabled IPV6 feature

Attribute Name: source-address

Attribute Type: union

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <standard-acl-sets>
      <standard-acl-set>
```

```
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>standard_ip</type>
        </config>
            <type>standard_ip</type>
        <ipv6-acl-entries>
        <ipv6-acl-entry>
            <source-address>any</source-address>
            <config>
                <source-address>any</source-address>
                <forwarding-action>deny</forwarding-action> <!-- operation="delete"-->
            </config>
        </ipv6-acl-entry>
      </ipv6-acl-entries>
  </standard-acl-set>
  </standard-acl-sets>
  </acl>
```

Command Syntax

```
(deny|permit) (any|X:X::X:X/M|X:X::X:X X:X::X:X)
```

IPI-ACL-ARP

Configure source mac any

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: union

Attribute Name: destination-ip-address

Attribute Type: union

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                     </destination-mac-any><!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     </source-mac-any><!-- operation="delete"-->
               </config>
            </arp>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any|host A.B.C.D|A.B.C.D/M|A.B.C.D
      A.B.C.D) (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D) mac any any (vlan <1-
      4094>|) (inner-vlan <1-4094>|)
```

Configure name

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
```

```
                        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        </source-mac-any><!-- operation="delete"-->
                  </config>
               </arp>
            </acl-entry>
         </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any) (any) mac any host (XX-XX-XX-XX-
      XX-XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure type

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                        <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                        <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                        <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                        <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        </source-mac-any><!-- operation="delete"-->
               </config>
            </arp>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any) (any) mac any (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source mac host

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                     </destination-mac-any><!-- operation="delete"-->
```

```
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                    </config>
                </arp>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any) (any) mac host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure sequence id

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
    <acl-sets>
        <acl-set>
            <name>NAME</name>
```

```
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <arp>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                        <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                        <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                </config>
             </arp>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any) (any) mac host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure forwarding action

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                     <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
```

```
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                    </config>
                </arp>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any) (any) mac host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source mac address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                     <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                     </destination-mac-any><!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
               </config>
            </arp>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any) (any) mac (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure arp packet type

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
```

```
                        <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                    </config>
                </arp>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) response ip (any) (any) mac (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source ip address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: destination-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

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Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <destination-ip-address>any</destination-ip-address> <!--
operation="delete"-->
                     <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                     <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
               </config>
            </arp>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) response ip (any) (any) mac (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
```

```
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure vlan id

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
```

```
                        <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        </source-mac-any><!-- operation="delete"-->
                  </config>
               </arp>
            </acl-entry>
         </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) ((request)|) ip (any) mac any (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure inner vlan id

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
```

```
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <arp>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                       <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                       <vlan-id>1</vlan-id> <!-- operation="delete"-->
                       <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                       <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                </config>
             </arp>
          </acl-entry>
       </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) ((request)|) ip (any) mac host (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure source mac mask

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

Attribute Name: source-ip-address

Attribute Type: enum (any)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <arp>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <source-ip-address>any</source-ip-address> <!--
operation="delete"-->
                     <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
               </config>
            </arp>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) ((request)|) ip (any) mac (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

IPI-ACL-MAC

Configure source mac any

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <mac>
            <config>
```

```
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </destination-mac-any><!-- operation="delete"-->
                        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        </source-mac-any><!-- operation="delete"-->
                    </config>
                </mac>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) any any arp (cos <0-7>|) (vlan <1-4094>|) (inner-
      vlan <1-4094>|)
```

Configure name

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     </source-mac-any><!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) any host (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
  vlan <1-4094>|)
```

Configure type

Use this attribute to indicate any source address.

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                     <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     </source-mac-any><!-- operation="delete"-->
               </config>
            </mac>
```

```
        </acl-entry>
     </acl-entries>
  </acl-set>
  </acl-sets>
  </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) any (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
  vlan <1-4094>|)
```

Configure source mac host

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
```

```
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </destination-mac-any><!-- operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any arp (cos <0-7>|) (vlan <1-4094>|)
  (inner-vlan <1-4094>|)
```

Configure sequence id

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
      vlan <1-4094>|)
```

Configure forwarding action

Use this attribute to set Host source address.

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```
                        <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                        <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                    </config>
                </mac>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
      vlan <1-4094>|)
```

Configure source mac address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                        </destination-mac-any><!-- operation="delete"-->
                        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any arp (cos <0-7>|) (vlan <1-4094>|)
      (inner-vlan <1-4094>|)
```

Configure source mac mask

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```
                        <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                        <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                    </config>
                </mac>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
      vlan <1-4094>|)
```

Configure destination mac address

Use this attribute to set source mac-address.

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                     <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                     <arp-packet-type>none</arp-packet-type> <!--
operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                     <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (cos <0-7>|) (vlan <1-4094>|) (inner-
  vlan <1-4094>|)
```

Configure learn disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-any

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </source-mac-any><!-- operation="delete"-->
                     </destination-mac-any><!-- operation="delete"-->
                     </learn-disable><!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
```

```
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) any any (learn-disable|)
```

Configure destination mac host

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-host

Attribute Type: string

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </source-mac-any><!-- operation="delete"-->
                     <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                     </learn-disable><!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
```

```
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) any host (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure destination mac mask

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </source-mac-any><!-- operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
```

```
                        <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                        </learn-disable><!-- operation="delete"-->
                    </config>
                </mac>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) any (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure destination mac any

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
    <acl-sets>
        <acl-set>
            <name>NAME</name>
            <config>
                <name>WORD</name>
                <type>mac</type>
            </config>
                <type>mac</type>
            <acl-entries>
                <acl-entry>
                    <sequence-id>1</sequence-id>
                    <config>
                        <sequence-id>1</sequence-id>
                    </config>
                    <mac>
                    <config>
```

```
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                        </destination-mac-any><!-- operation="delete"-->
                        </learn-disable><!-- operation="delete"-->
                    </config>
                </mac>
            </acl-entry>
        </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (learn-disable|)
```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
    <acl-sets>
        <acl-set>
            <name>NAME</name>
            <config>
                <name>WORD</name>
                <type>mac</type>
            </config>
                <type>mac</type>
            <acl-entries>
                <acl-entry>
                    <sequence-id>1</sequence-id>
                    <config>
                        <sequence-id>1</sequence-id>
                    </config>
                    <mac>
```

```
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                      <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                      </learn-disable><!-- operation="delete"-->
                </config>
             </mac>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
```

```
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <mac>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                       <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                       <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                       </learn-disable><!-- operation="delete"-->
                </config>
             </mac>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
```

```
       <acl-set>
          <name>NAME</name>
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <mac>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                      <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                      </destination-mac-any><!-- operation="delete"-->
                      </learn-disable><!-- operation="delete"-->
                </config>
             </mac>
          </acl-entry>
       </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any (learn-disable|)
```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                        <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                        </learn-disable><!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure mac learn-disable

Use this attribute to set the learn disable

Attribute Name: learn-disable

Attribute Type: empty

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                     <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                     <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                     </learn-disable><!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (learn-disable|)
```

Configure inner vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: ethertype

Attribute Type: union

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
```

```
                </config>
                <mac>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </source-mac-any><!-- operation="delete"-->
                      </destination-mac-any><!-- operation="delete"-->
                      <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                      <cos-value>0</cos-value> <!-- operation="delete"-->
                      <vlan-id>1</vlan-id> <!-- operation="delete"-->
                      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                </config>
             </mac>
          </acl-entry>
       </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) any any ((ipv4|vines-echo|etype-6000|mop-dump|mop-
  console|decnet-iv|lat|diagnostic|lavc-sca|etype-
  8042|appletalk|aarp|ipv6|mpls|ETHTYPE)|) (cos <0-7>|) (vlan <1-4094>|) (inner-
  vlan <1-4094>|)
```

Configure ethertype

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </source-mac-any><!-- operation="delete"-->
                        <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                        <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) any host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
      console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)|)
      (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure cos value

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-any

Attribute Type: empty

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </source-mac-any><!-- operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                     <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
```

```
                    <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                    <cos-value>0</cos-value> <!-- operation="delete"-->
                    <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                </config>
            </mac>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) any (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
  console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)|)
  (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure vlan id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
```

```
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                     </destination-mac-any><!-- operation="delete"-->
                     <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
      XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any ((ipv4|vines-echo|etype-6000|mop-
      dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-
      8042|appletalk|aarp|ipv6|mpls)|) (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-
      4094>|)
```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                     <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                     <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
   </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)|)
(cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-host

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
```

```
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <mac>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        <source-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-host> <!-- operation="delete"-->
                        <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                        <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                        <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                        <cos-value>0</cos-value> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                </config>
             </mac>
          </acl-entry>
       </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) host (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
       console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)|)
       (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-any

Attribute Type: empty

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                     <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                     </destination-mac-any><!-- operation="delete"-->
                     <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
                     <vlan-id>1</vlan-id> <!-- operation="delete"-->
                     <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
               </config>
            </mac>
         </acl-entry>
      </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) any ((ipv4|vines-echo|etype-6000|mop-
  dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-
  8042|appletalk|aarp|ipv6|mpls)|) (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|)
```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-host

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <mac>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                      <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                      <destination-mac-host>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-host> <!-- operation="delete"-->
                      <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                      <cos-value>0</cos-value> <!-- operation="delete"-->
                      <vlan-id>1</vlan-id> <!-- operation="delete"-->
                      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                </config>
             </mac>
          </acl-entry>
       </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) host (XX-XX-XX-XX-XX-
       XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
       console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)|)
       (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

Configure mac inner-vlan-id

Use this attribute to set the inner-vlan-id

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: source-mac-address

Attribute Type: string

Attribute Name: source-mac-mask

Attribute Type: string

Attribute Name: destination-mac-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: ethertype

Attribute Type: enum (ipv4|vines-echo|etype-6000|mop-dump|mop-console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)

Attribute Name: cos-value

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <mac>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <source-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-address> <!-- operation="delete"-->
                     <source-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</source-mac-mask> <!-- operation="delete"-->
                     <destination-mac-address>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-address> <!-- operation="delete"--
>
                     <destination-mac-mask>XX-XX-XX-XX-XX-
XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX</destination-mac-mask> <!-- operation="delete"-->
                     <ethertype>ipv4</ethertype> <!-- operation="delete"-->
                     <cos-value>0</cos-value> <!-- operation="delete"-->
```

```
                    <vlan-id>1</vlan-id> <!-- operation="delete"-->
                    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                </config>
            </mac>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) ((ipv4|vines-echo|etype-6000|mop-dump|mop-
  console|decnet-iv|lat|diagnostic|lavc-sca|etype-8042|appletalk|aarp|ipv6|mpls)|)
  (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
```

IPI-ACL-PORTS

Configure acl name

The name of the access-list set applied on the interface

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <ingress-acl-sets>
    <ingress-acl-set>
        <acl-type>ip</acl-type>
        <config>
            <acl-type>ip</acl-type>
        </config>
        <access-groups>
        <access-group> <!-- operation="delete"-->
            <acl-name>WORD</acl-name>
            <config>
                <acl-name>WORD</acl-name>
            </config>
        </access-group>
```

```
    </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
ip access-group NAME in
```

Configure name

The name of the access-list set applied on the interface

Attribute Name: acl-name

Attribute Type: string

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <ingress-acl-sets>
    <ingress-acl-set>
        <acl-type>mac</acl-type>
        <config>
            <acl-type>mac</acl-type>
        </config>
        <access-groups>
        <access-group>
            <acl-name>WORD</acl-name>
            <config>
                <acl-name>WORD</acl-name>
                <time-range>WORD</time-range>
            </config>
        </access-group>
    </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
ip access-group NAME in time-range WORD
```

Configure acl type

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <ingress-acl-sets>
   <ingress-acl-set>
      <acl-type>ipv6</acl-type>
      <access-groups>
      <access-group>
         <acl-name>WORD</acl-name>
      </access-group>
   </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
ipv6 access-group NAME in
```

Configure time range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <ingress-acl-sets>
   <ingress-acl-set>
      <acl-type>mac</acl-type>
      <config>
         <acl-type>mac</acl-type>
      </config>
      <access-groups>
      <access-group>
         <acl-name>WORD</acl-name>
         <config>
            <acl-name>WORD</acl-name>
         </config>
            <time-range>WORD</time-range> <!-- operation="delete"-->
      </access-group>
   </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
ipv6 access-group NAME in time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
    <ingress-acl-sets>
    <ingress-acl-set>
       <acl-type>arp</acl-type>
       <access-groups>
       <access-group>
          <acl-name>WORD</acl-name>
       </access-group>
    </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
 arp access-group NAME in
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface> <!-- operation="delete"-->
    <name>WORD</name>
    <config>
       <name>WORD</name>
    </config>
    <ingress-acl-sets>
    <ingress-acl-set>
       <acl-type>mac</acl-type>
       <access-groups>
       <access-group>
          <acl-name>WORD</acl-name>
       </access-group>
    </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
mac access-group NAME in
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <ingress-acl-sets>
   <ingress-acl-set>
      <acl-type>mac</acl-type>
      <config>
         <acl-type>mac</acl-type>
      </config>
      <access-groups>
      <access-group>
         <acl-name>WORD</acl-name>
         <config>
            <acl-name>WORD</acl-name>
         </config>
            <time-range>WORD</time-range> <!-- operation="delete"-->
      </access-group>
   </access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
mac access-group NAME in time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <egress-acl-sets>
   <egress-acl-set>
      <acl-type>ip</acl-type>
      <access-groups>
      <access-group>
         <acl-name>WORD</acl-name>
      </access-group>
   </access-groups>
</egress-acl-set>
</egress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
 ip access-group NAME out
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <egress-acl-sets>
   <egress-acl-set>
      <acl-type>mac</acl-type>
      <config>
         <acl-type>mac</acl-type>
```

```
        </config>
        <access-groups>
        <access-group>
           <acl-name>WORD</acl-name>
           <config>
              <acl-name>WORD</acl-name>
           </config>
              <time-range>WORD</time-range> <!-- operation="delete"-->
        </access-group>
     </access-groups>
  </egress-acl-set>
  </egress-acl-sets>
  </interface>
  </interfaces>
  </acl>
```

Command Syntax

```
ip access-group NAME out time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
  <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
  <interfaces>
  <interface> <!-- operation="delete"-->
     <name>WORD</name>
     <config>
        <name>WORD</name>
     </config>
     <egress-acl-sets>
     <egress-acl-set>
        <acl-type>ipv6</acl-type>
        <access-groups>
        <access-group>
           <acl-name>WORD</acl-name>
        </access-group>
     </access-groups>
  </egress-acl-set>
  </egress-acl-sets>
  </interface>
```

```
</interfaces>
</acl>
```

Command Syntax

```
ipv6 access-group NAME out
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <egress-acl-sets>
   <egress-acl-set>
      <acl-type>mac</acl-type>
      <config>
         <acl-type>mac</acl-type>
      </config>
      <access-groups>
      <access-group>
         <acl-name>WORD</acl-name>
         <config>
            <acl-name>WORD</acl-name>
         </config>
            <time-range>WORD</time-range> <!-- operation="delete"-->
      </access-group>
   </access-groups>
</egress-acl-set>
</egress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
ipv6 access-group NAME out time-range WORD
```

Configure interfaces name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp|copp|ipv6-copp)

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <egress-acl-sets>
   <egress-acl-set>
      <acl-type>mac</acl-type>
      <access-groups>
      <access-group>
         <acl-name>WORD</acl-name>
      </access-group>
   </access-groups>
</egress-acl-set>
</egress-acl-sets>
</interface>
</interfaces>
</acl>
```

Command Syntax

```
 mac access-group NAME out
```

Configure access-group time-range

The time-range associated with this access-group

Attribute Name: time-range

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <ingress-acl-sets>
   <ingress-acl-set>
```

```
        <acl-type>mac</acl-type>
        <config>
           <acl-type>mac</acl-type>
        </config>
        <access-groups>
        <access-group>
           <acl-name>WORD</acl-name>
           <config>
              <acl-name>WORD</acl-name>
           </config>
              <time-range>WORD</time-range> <!-- operation="delete"-->
        </access-group>
     </access-groups>
  </ingress-acl-set>
  </ingress-acl-sets>
  </interface>
  </interfaces>
  </acl>
```

Command Syntax

```
mac access-group NAME out time-range WORD
```

Configure ingress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<vty-line>
<ingress-acl-sets>
<ingress-acl-set>
   <acl-type>ip</acl-type>
   <config>
      <acl-type>ip</acl-type>
   </config>
      <acl-name>NAME</acl-name> <!-- operation="delete"-->
</ingress-acl-set>
</ingress-acl-sets>
</vty-line>
</acl>
```

Command Syntax

```
ip access-group NAME in
```

Configure ingress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<vty-line>
<ingress-acl-sets>
<ingress-acl-set>
   <acl-type>ip</acl-type>
   <config>
      <acl-type>ip</acl-type>
   </config>
      <acl-name>NAME</acl-name> <!-- operation="delete"-->
</ingress-acl-set>
</ingress-acl-sets>
</vty-line>
</acl>
```

Command Syntax

```
ipv6 access-group NAME in
```

Configure egress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<vty-line>
<egress-acl-sets>
<egress-acl-set>
   <acl-type>ip</acl-type>
   <config>
      <acl-type>ip</acl-type>
   </config>
      <acl-name>NAME</acl-name> <!-- operation="delete"-->
</egress-acl-set>
</egress-acl-sets>
</vty-line>
</acl>
```

Command Syntax

```
ip access-group NAME out
```

Configure egress-acl-set acl-name

The name of the access-list set applied on vty line

Attribute Name: acl-name

Attribute Type: string

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<vty-line>
<egress-acl-sets>
<egress-acl-set>
   <acl-type>ip</acl-type>
   <config>
      <acl-type>ip</acl-type>
   </config>
      <acl-name>NAME</acl-name> <!-- operation="delete"-->
</egress-acl-set>
</egress-acl-sets>
</vty-line>
</acl>
```

Command Syntax

```
ipv6 access-group NAME out
```

clear access-list counters

Netconf RPC payload

```
<ipi-acl-ports_clear-access-list-counters-all xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear access-list counters
```

clear access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
<ipi-acl-ports_clear-access-list-counters xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-acl">
<name>NAME</name>
</ipi-acl-ports_clear-access-list-counters>
```

Command Syntax

```
clear access-list NAME counters
```

clear ip access-list counters

Netconf RPC payload

```
      <ipi-acl-ports_clear-ip-access-list-counters-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear ip access-list counters
```

clear ip access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
      <ipi-acl-ports_clear-ip-access-list-counters xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-acl">
      <name>NAME</name>
      </ipi-acl-ports_clear-ip-access-list-counters>
```

Command Syntax

```
clear ip access-list NAME counters
```

clear ipv6 access-list counters

Netconf RPC payload

```
      <ipi-acl-ports_clear-ipv6-access-list-counters-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear ipv6 access-list counters
```

clear ipv6 access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
      <ipi-acl-ports_clear-ipv6-access-list-counters xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-acl">
      <name>NAME</name>
      </ipi-acl-ports_clear-ipv6-access-list-counters>
```

Command Syntax

```
clear ipv6 access-list NAME counters
```

clear mac access-list counters

Netconf RPC payload

```
      <ipi-acl-ports_clear-mac-access-list-counters-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear mac access-list counters
```

clear mac access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
      <ipi-acl-ports_clear-mac-access-list-counters xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-acl">
      <name>NAME</name>
      </ipi-acl-ports_clear-mac-access-list-counters>
```

Command Syntax

```
clear mac access-list NAME counters
```

clear arp access-list counters

Netconf RPC payload

```
      <ipi-acl-ports_clear-arp-access-list-counters-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-acl"/>
```

Command Syntax

```
clear arp access-list counters
```

clear arp access-list NAME counters

Attribute Name: name

Attribute Type: string

Netconf RPC payload

```
      <ipi-acl-ports_clear-arp-access-list-counters xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-acl">
      <name>NAME</name>
      </ipi-acl-ports_clear-arp-access-list-counters>
```

Command Syntax

```
clear arp access-list NAME counters
```

IPI-ACL-COPP

Configure log action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
```

```
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D)
      (any|host A.B.C.D|A.B.C.D/M|A.B.C.D A.B.C.D) (fragments|)
      ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
      16777215>|)|)
```

Configure name

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
```

```
                    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
  65535>) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure type

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535>
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure sequence id

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
      65535>) (any) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
      255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure forwarding action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any)
       (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
       options|) (log (<1-16777215>|)|)
```

Configure protocol tcp

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
```

```
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
      options|) (log (<1-16777215>|)|)
```

Configure source address

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
```

```
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) range <0-65535> <0-65535> (fragments|)
      ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
      16777215>|)|)
```

Configure lower source port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
      65535> <0-65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
      255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure upper source port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

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Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
```

```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)
```

Configure source prefix group

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
```

```
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (fragments|)
      ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
      16777215>|)|)
```

Configure destination address

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
```

```
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure lower destination port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
```

```
                    </fragments><!-- operation="delete"-->
                    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) range <0-65535> <0-
  65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure source port operator

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
```

```
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (any) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure fragments

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  (any) (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure tcp source port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure upper destination port in range

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
```

```
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (any) range <0-65535> <0-65535> (fragments|)
  ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure tcp flags

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
```

```
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  (any) range <0-65535> <0-65535> (fragments|)
  ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure destination port operator

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
```

```
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure destination prefix group

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (fragments|)
  ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure tcp destination port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
      options|) (log (<1-16777215>|)|)
```

Configure ttl

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
```

```
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-tcp><!-- operation="delete"-->
                       <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                       <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                       <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                       <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                       </fragments><!-- operation="delete"-->
                       <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                       <ttl>0</ttl> <!-- operation="delete"-->
                       </ip-options><!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD range <0-
  65535> <0-65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
  255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ip options

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
```

```
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      prefix-group WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
      255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
```

```
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
  255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <copp>
```

```
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
```

```
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      prefix-group WORD range <0-65535> <0-65535> (fragments|)
      ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
      16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD range <0-65535> <0-65535> (fragments|)
  ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (fragments|)
      ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
      16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
```

```
                </config>
                <copp>
                <ipv4>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
      options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD range <0-65535> <0-
  65535> (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
```

```
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  prefix-group WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-
  255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
  WORD (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
```

```
    </acl-entry>
  </acl-entries>
  </acl-set>
  </acl-sets>
  </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
```

```
                    </fragments><!-- operation="delete"-->
                    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  prefix-group WORD range <0-65535> <0-65535> (fragments|)
  ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
```

```
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
  WORD range <0-65535> <0-65535> (fragments|)
  ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: tcp-flags

Attribute Type: bits (ack|established|fin|psh|rst|syn|urg)

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```

```
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
  WORD (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (fragments|) ({ack|established|fin|psh|rst|syn|urg}|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure protocol udp

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (fragments|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure udp destination port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
```

```
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (fragments|) (ttl <0-
      255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
```

```
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535>
      (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure udp source port

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (fragments|)
  (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
```

```
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any)
      (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
```

```
                </config>
                <copp>
                <ipv4>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
      (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
```

```
                </config>
                <copp>
                <ipv4>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
      (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
```

```
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
      65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
```

```
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
  (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (fragments|) (ttl <0-
  255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
```

```
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
      (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv4>
```

```
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-udp><!-- operation="delete"-->
                       <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                       <destination-address>any</destination-address> <!--
operation="delete"-->
                       <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                       <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                       </fragments><!-- operation="delete"-->
                       <ttl>0</ttl> <!-- operation="delete"-->
                       </ip-options><!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (any) range <0-65535> <0-
      65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
```

```
            </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (fragments|) (ttl <0-
  255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  (any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)
```

```
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
```

```
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
(fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)||)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  (any) range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log
  (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
      (any) (eq)
```

```
(echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
```

```
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (fragments|)
      (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
```

```
                    </fragments><!-- operation="delete"-->
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
  (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD range <0-
  65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (fragments|)
      (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
```

```
                </config>
                <copp>
                <ipv4>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
      (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
```

```
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
      65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
```

```
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                      <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
      prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
      (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
```

```
                    </fragments><!-- operation="delete"-->
                    <ttl>0</ttl> <!-- operation="delete"-->
                    </ip-options><!-- operation="delete"-->
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv4>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (fragments|) (ttl <0-
  255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
```

```
s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
(ip-options|) (log (<1-16777215>|)||)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
```

```
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-udp><!-- operation="delete"-->
                       <source-address>any</source-address> <!-- operation="delete"-->
                       <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                       <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                       <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                       </fragments><!-- operation="delete"-->
                       <ttl>0</ttl> <!-- operation="delete"-->
                       </ip-options><!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) prefix-group WORD range <0-65535> <0-
      65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)||)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
```

```
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (fragments|)
      (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
```

```
            </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
  WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
  (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
  65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
  WORD range <0-65535> <0-65535> (fragments|) (ttl <0-255>|) (ip-options|) (log
  (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
  WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (fragments|) (ttl <0-255>|)
  (ip-options|) (log (<1-16777215>|)|)
```

Configure protocol icmp

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
```

```
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-icmp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <icmp-type>0</icmp-type> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> (fragments|) (ttl <0-255>|)
      (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-icmp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) (fragments|) (ttl <0-255>|) (ip-
  options|) (log (<1-16777215>|)|)
```

Configure icmp type

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
```

```
          <name>NAME</name>
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-icmp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <icmp-type>0</icmp-type> <!-- operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmp prefix-group WORD (any) <0-255> (fragments|)
      (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-icmp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
```

```
            </config>
          </ipv4>
        </copp>
      </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp prefix-group WORD (any) (fragments|) (ttl <0-
  255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-icmp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <icmp-type>0</icmp-type> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmp prefix-group WORD prefix-group WORD <0-255>
      (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-icmp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
```

```
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        </fragments><!-- operation="delete"-->
                        <ttl>0</ttl> <!-- operation="delete"-->
                        </ip-options><!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv4>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmp prefix-group WORD prefix-group WORD
      (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: icmp-type

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-icmp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <icmp-type>0</icmp-type> <!-- operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmp (any) prefix-group WORD <0-255> (fragments|)
      (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
            <type>mac</type>
        <acl-entries>
            <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                    <sequence-id>1</sequence-id>
                </config>
                <copp>
```

```
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-icmp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmp (any) prefix-group WORD (fragments|) (ttl <0-
      255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure protocol name

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit)
      (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any|<0-255>) (any)
      (any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
            <type>mac</type>
        <acl-entries>
            <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                    <sequence-id>1</sequence-id>
                </config>
                <copp>
```

```
                <ipv4>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      </fragments><!-- operation="delete"-->
                      <ttl>0</ttl> <!-- operation="delete"-->
                      </ip-options><!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv4>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit)
      (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) prefix-group
      WORD (any) (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit)
  (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) prefix-group
  WORD prefix-group WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-
  16777215>|)|)
```

Configure ipv4 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: fragments

Attribute Type: empty

Attribute Name: ttl

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: ip-options

Attribute Type: empty

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
```

```
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv4>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <protocol-name>igmp</protocol-name> <!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     </fragments><!-- operation="delete"-->
                     <ttl>0</ttl> <!-- operation="delete"-->
                     </ip-options><!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv4>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit)
      (igmp|ipip|ipv6ip|rsvp|gre|esp|ahp|eigrp|ospf|pim|ipcomp|vrrp|any) (any) prefix-
      group WORD (fragments|) (ttl <0-255>|) (ip-options|) (log (<1-16777215>|)|)
```

Configure hop limit

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: union

Attribute Name: destination-address

Attribute Type: union

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any|X:X::X:X/M) (any|X:X::X:X/M) (hop-limit <0-
      255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: union

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
            <config>
```

```
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
  65535>) (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) range <0-65535> <0-65535> (hop-limit
  <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
```

```
                    <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls|<0-
  65535>) (any) (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (hop-limit
  <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
```

```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
```

```
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
            <type>mac</type>
        <acl-entries>
            <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                    <sequence-id>1</sequence-id>
```

```
                </config>
                <copp>
                <ipv6>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
```

```
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> (any) (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)||)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (hop-limit <0-255>|)
      (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
```

```
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) (eq
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (any) range <0-65535> <0-
      65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
```

```
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
```

```
        </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  (any) (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
```

```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(any) (eq) (echo|discard|daytime|chargen|ftp-
data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
(hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

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Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
```

```
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
      (any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
```

```
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (hop-limit
  <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
```

```
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
```

```
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD prefix-group WORD range <0-
  65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
      (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
```

```
rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
```

```
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
      prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
```

```
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
```

```
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
```

```
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
```

```
        </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (hop-limit <0-255>|)
       (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD (eq)
  (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
```

```
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) prefix-group WORD range <0-65535> <0-
      65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
```

```
                        <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
      WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-tcp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                      <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      prefix-group WORD (eq) (echo|discard|daytime|chargen|ftp-
      data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
      2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
      rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
      (hop-limit <0-255>|) (log (<1-16777215>|)||)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-source-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
```

```
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-tcp><!-- operation="delete"-->
                       <source-address>any</source-address> <!-- operation="delete"-->
                       <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                       <tcp-source-port>echo</tcp-source-port> <!--
operation="delete"-->
                       <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                       <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                       <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                       <hop-limit>0</hop-limit> <!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
            <config>
```

```
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-tcp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
  WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-tcp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: tcp-destination-port

Attribute Type: enum (echo|discard|daytime|chargen|ftp-data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-tcp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
```

```
                        <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) range <0-65535> <0-65535> prefix-group
  WORD (eq) (echo|discard|daytime|chargen|ftp-
  data|ftp|ssh|telnet|smtp|time|whois|tacacs|domain|gopher|finger|www|hostname|pop
  2|pop3|sunrpc|ident|nntp|bgp|irc|pim-auto-
  rp|exec|login|cmd|lpd|talk|uucp|klogin|kshell|netconf-ssh|drip|netconf-tls)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
    <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
    <acl-sets>
        <acl-set>
```

```
          <name>NAME</name>
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <destination-address>any</destination-address> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
```

```
    </acl-entry>
  </acl-entries>
  </acl-set>
  </acl-sets>
  </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) (eq
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (hop-limit <0-255>|)
  (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
```

```
       <acl-set>
          <name>NAME</name>
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-udp><!-- operation="delete"-->
                       <source-address>any</source-address> <!-- operation="delete"-->
                       <destination-address>any</destination-address> <!--
operation="delete"-->
                       <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                       <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                       <hop-limit>0</hop-limit> <!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
     (<1-268435453>|) (deny|permit) udp (any) (any) range <0-65535> <0-65535> (hop-limit
       <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: union

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
```

```
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv6>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp|<0-65535>) (any) (hop-limit <0-
  255>|) (log (<1-16777215>|)||)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (hop-limit
      <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
            <config>
```

```
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
```

```
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
  (hop-limit <0-255>|) (log (<1-16777215>|)||)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
```

```
            </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) range <0-
  65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
      16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
```

```
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (hop-limit <0-255>|)
  (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (any) (eq
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
      16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
            <type>mac</type>
        <acl-entries>
            <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                    <sequence-id>1</sequence-id>
```

```
                </config>
                <copp>
                <ipv6>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-udp><!-- operation="delete"-->
                       <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                       <destination-address>any</destination-address> <!--
operation="delete"-->
                       <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                       <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                       <hop-limit>0</hop-limit> <!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (any) range <0-65535> <0-
      65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (hop-limit <0-255>|) (log
  (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
```

```
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
      (any) (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
```

```
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
```

```
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (any) range <0-65535> <0-65535>
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
```

```
                    <log-action>1</log-action> <!-- operation="delete"-->
                </config>
            </ipv6>
        </copp>
    </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  (any) range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  (any) (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
```

```
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-udp><!-- operation="delete"-->
                       <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                       <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                       <hop-limit>0</hop-limit> <!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (hop-limit
      <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
```

```
          <name>NAME</name>
          <config>
             <name>WORD</name>
             <type>mac</type>
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD prefix-group WORD range <0-
      65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
```

```
                        <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (hop-limit
  <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
      prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>||)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
```

```
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
      16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
```

```
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       </protocol-udp><!-- operation="delete"-->
                       <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                       <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                       <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                       <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                       <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                       <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                       <hop-limit>0</hop-limit> <!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
      65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
            <copp>
            <ipv6>
```

```
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                      <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
```

```
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp prefix-group WORD range <0-65535> <0-65535>
  prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (hop-limit <0-255>|)
      (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
```

```
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) prefix-group WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                     <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) prefix-group WORD range <0-65535> <0-
      65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
               <sequence-id>1</sequence-id>
            </config>
```

```
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (hop-limit
      <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
  WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
```

```
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                     <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                     <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
      16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: source-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
```

```
          </config>
             <type>mac</type>
          <acl-entries>
             <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-udp><!-- operation="delete"-->
                      <source-address>any</source-address> <!-- operation="delete"-->
                      <source-port-operator>eq</source-port-operator> <!--
operation="delete"-->
                      <udp-source-port>echo</udp-source-port> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                      <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) udp (any) (eq)
      (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
      s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
      rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) prefix-group WORD range <0-
      65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: lower-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-destination-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
    <acl-set>
        <name>NAME</name>
        <config>
            <name>WORD</name>
            <type>mac</type>
        </config>
            <type>mac</type>
        <acl-entries>
            <acl-entry>
                <sequence-id>1</sequence-id>
                <config>
                    <sequence-id>1</sequence-id>
```

```
                </config>
                <copp>
                <ipv6>
                <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-udp><!-- operation="delete"-->
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                        <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <lower-destination-port-in-range>0</lower-destination-port-in-
range> <!-- operation="delete"-->
                        <upper-destination-port-in-range>0</upper-destination-port-in-
range> <!-- operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
  WORD range <0-65535> <0-65535> (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-udp

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: lower-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: upper-source-port-in-range

Attribute Type: uint16

Attribute Range: 0-65535

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-port-operator

Attribute Type: enum (eq)

Attribute Name: udp-destination-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbios-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-udp><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <lower-source-port-in-range>0</lower-source-port-in-range> <!--
operation="delete"-->
                     <upper-source-port-in-range>0</upper-source-port-in-range> <!--
operation="delete"-->
```

```
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
                        <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                    </config>
                </ipv6>
            </copp>
        </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) range <0-65535> <0-65535> prefix-group
  WORD (eq)
  (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|tftp|sunrpc|ntp|netbio
  s-ns|netbios-dgm|netbios-ss|snmp|snmptrap|xdmcp|dnsix|mobile-ip|pim-auto-
  rp|isakmp|biff|who|syslog|talk|rip|non500-isakmp) (hop-limit <0-255>|) (log (<1-
  16777215>|)|)
```

Configure protocol icmpv6

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-icmpv6><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmpv6 (any) (any) (hop-limit <0-255>|) (log (<1-
      16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                        <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                        </protocol-icmpv6><!-- operation="delete"-->
                        <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                        <destination-address>any</destination-address> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
```

```
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmpv6 prefix-group WORD (any) (hop-limit <0-255>|)
  (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
            <config>
```

```
                    <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                      <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                      </protocol-icmpv6><!-- operation="delete"-->
                      <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                      <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                      <hop-limit>0</hop-limit> <!-- operation="delete"-->
                      <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
    </acl-entries>
    </acl-set>
    </acl-sets>
    </acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmpv6 prefix-group WORD prefix-group WORD (hop-
  limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-icmpv6

Attribute Type: empty

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     </protocol-icmpv6><!-- operation="delete"-->
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) icmpv6 (any) prefix-group WORD (hop-limit <0-255>|)
      (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: union

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
                     <source-address>any</source-address> <!-- operation="delete"-->
                     <destination-address>any</destination-address> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
```

```
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
  header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any|<0-255>) (any) (any)
  (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (ipipv6|ipv6ipv6|ipv6-route-header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
<acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
<acl-sets>
   <acl-set>
      <name>NAME</name>
      <config>
         <name>WORD</name>
         <type>mac</type>
      </config>
         <type>mac</type>
      <acl-entries>
         <acl-entry>
            <sequence-id>1</sequence-id>
```

```
                <config>
                   <sequence-id>1</sequence-id>
                </config>
                <copp>
                <ipv6>
                <config>
                       <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                       <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
                       <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                       <destination-address>any</destination-address> <!--
operation="delete"-->
                       <hop-limit>0</hop-limit> <!-- operation="delete"-->
                       <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
      header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any) prefix-group WORD
      (any) (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (ipipv6|ipv6ipv6|ipv6-route-header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
                     <source-prefix-group>WORD</source-prefix-group> <!--
operation="delete"-->
                     <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                     <hop-limit>0</hop-limit> <!-- operation="delete"-->
                     <log-action>1</log-action> <!-- operation="delete"-->
               </config>
            </ipv6>
         </copp>
      </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
      header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any) prefix-group WORD
      prefix-group WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

Configure ipv6 log-action

Use this attribute to enable logging of the packets on which the match occurred. The sampling rate in number of packets, meaning 1 sample per X packets. By default 1 log pkt per each matching packet is sent to CPU.

This command is supported when following feature are enabled IPV6 feature,Control Plane Policing (CoPP) feature

Attribute Name: log-action

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (ipipv6|ipv6ipv6|ipv6-route-header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-prefix-group

Attribute Type: string

Default Value: ?

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 0-255

Netconf edit-config payload

```
   <acl xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-acl">
   <acl-sets>
      <acl-set>
         <name>NAME</name>
         <config>
            <name>WORD</name>
            <type>mac</type>
         </config>
            <type>mac</type>
         <acl-entries>
            <acl-entry>
               <sequence-id>1</sequence-id>
               <config>
                  <sequence-id>1</sequence-id>
               </config>
               <copp>
               <ipv6>
               <config>
                     <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
                     <protocol-name>ipipv6</protocol-name> <!-- operation="delete"--
>
```

```
                        <source-address>any</source-address> <!-- operation="delete"-->
                        <destination-prefix-group>WORD</destination-prefix-group> <!--
operation="delete"-->
                        <hop-limit>0</hop-limit> <!-- operation="delete"-->
                        <log-action>1</log-action> <!-- operation="delete"-->
                </config>
             </ipv6>
          </copp>
       </acl-entry>
   </acl-entries>
   </acl-set>
   </acl-sets>
   </acl>
```

Command Syntax

```
    (<1-268435453>|) (deny|permit) (ipipv6|ipv6ipv6|ipv6-route-
      header|rsvp|gre|esp|ahp|ipv6-opts|ospf|pim|ipcomp|vrrp|any) (any) prefix-group
      WORD (hop-limit <0-255>|) (log (<1-16777215>|)|)
```

IPI-DHCP-SNOOPING

Configure options

Use this attribute to debug the DHCP snooping feature.

Attribute Name: options

Attribute Type: bits (event|rx|tx|packet|all)

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <snooping>
   <debug>
   <config>
          <options>event</options> <!-- operation="delete"-->
   </config>
   </debug>
   </snooping>
   </dhcp>
```

Command Syntax

```
    debug ip dhcp snooping (event|rx|tx|packet|all)
```

Configure snooping enable

Enable DHCP snooping feature

Attribute Name: snooping-enable

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
      </snooping-enable>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping bridge <1-32>
```

Configure verify mac address

Use this command to enable MAC address verification.

Attribute Name: verify-mac-address

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
      </verify-mac-address><!-- operation="delete"-->
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping verify mac-address bridge <1-32>
```

Configure option 82 enable

Use this command to insert interface and VLAN name in the option 82 field in DHCP packets.

Attribute Name: option-82-enable

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
      </option-82-enable><!-- operation="delete"-->
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping information option bridge <1-32>
```

Configure write delay

Configure DHCP snooping database write delay in multiples of 10 seconds

Attribute Name: write-delay

Attribute Type: uint32

Default Value: 300

Attribute Range: 20-86400

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
      <write-delay>20</write-delay> <!-- operation="delete"-->
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping database write-delay <20-86400> bridge <1-32>
```

Configure strict validation

Use this command to enable strict validation of DHCP packets.

Attribute Name: strict-validation

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
      </strict-validation><!-- operation="delete"-->
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp packet strict-validation bridge <1-32>
```

Configure enable

Use this command to enable/disable arp-inspection on the bridge.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
   <arp-inspection>
   <config>
         </enable>
   </config>
</arp-inspection>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping arp-inspection bridge <1-32>
```

Configure validate mac

Use this command to enable validation of the source-mac, destination-mac, or IP address field in the ARP packet payload.

Attribute Name: validate-mac

Attribute Type: enum (src-mac|dst-mac|ip)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
   <arp-inspection>
   <config>
          <validate-mac>src-mac</validate-mac> <!-- operation="delete"-->
   </config>
</arp-inspection>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping arp-inspection validate (src-mac|dst-mac|ip) bridge <1-32>
```

Configure vlan range

Use this command to enable ARP inspection on the VLAN in a bridge.

Attribute Name: vlan-range

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
   <arp-inspection>
   <config>
          <vlan-range>VLAN_RANGE</vlan-range> <!-- operation="delete"-->
```

```
      </config>
   </arp-inspection>
   </snooping-bridge>
   </snooping-bridges>
   </snooping>
   </dhcp>
```

Command Syntax

```
    ip dhcp snooping arp-inspection vlan VLAN_RANGE bridge <1-32>
```

Configure option82 template name

option82 template name to map to vlan.

Attribute Name: option82-template-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
   <snooping>
   <snooping-bridges>
   <snooping-bridge>
      <bridge-id>1</bridge-id>
      <config>
         <bridge-id>1</bridge-id>
      </config>
      <vlan-option82-template-mappings>
      <vlan-option82-template-mapping>
         <vlan-range>VLAN_RANGE</vlan-range>
         <config>
            <vlan-range>VLAN_RANGE</vlan-range>
         </config>
            <option82-template-name>TEMPLATE_NAME</option82-template-name> <!--
operation="delete"-->
      </vlan-option82-template-mapping>
   </vlan-option82-template-mappings>
   </snooping-bridge>
   </snooping-bridges>
   </snooping>
   </dhcp>
```

Command Syntax

```
    ip dhcp snooping vlan VLAN_RANGE bridge <1-32> option82-template TEMPLATE_NAME
```

Configure bridge id

vlan-range on which DHCP snooping needs to be enabled..

Attribute Name: vlan-range

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
   <vlan-option82-template-mappings>
   <vlan-option82-template-mapping>
      <vlan-range>VLAN_RANGE</vlan-range>
      <config>
         <vlan-range>VLAN_RANGE</vlan-range>
      </config>
   </vlan-option82-template-mapping>
</vlan-option82-template-mappings>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
 ip dhcp snooping vlan VLAN_RANGE bridge <1-32>
```

Configure if name

Use this attribute to set the interface name

Attribute Name: if-name

Attribute Type: string

Attribute Name: ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
   <vlans>
   <vlan>
      <vlan-id>1</vlan-id>
```

```
        <config>
           <vlan-id>1</vlan-id>
        </config>
        <mac-addresses-ipv4>
        <mac-address-ipv4>
           <mac-address>XXXX.XXXX.XXXX</mac-address>
           <config>
              <mac-address>XXXX.XXXX.XXXX</mac-address>
              <ipv4-address>A.B.C.D</ipv4-address>
           </config>
              <if-name>IFNAME</if-name>
        </mac-address-ipv4>
    </mac-addresses-ipv4>
</vlan>
</vlans>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping binding bridge <1-32> XXXX.XXXX.XXXX <1-4094> ipv4 A.B.C.D IFNAME
```

Configure mac address

Use this attribute to set the interface name

This command is supported when following feature are enabled HAVE_IPV6 feature enabled

Attribute Name: if-name

Attribute Type: string

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
<snooping-bridges>
<snooping-bridge>
   <bridge-id>1</bridge-id>
   <config>
      <bridge-id>1</bridge-id>
   </config>
   <vlans>
   <vlan>
      <vlan-id>1</vlan-id>
      <config>
         <vlan-id>1</vlan-id>
      </config>
      <mac-addresses-ipv6>
```

```
          <mac-address-ipv6>
             <mac-address>XXXX.XXXX.XXXX</mac-address>
             <config>
                <mac-address>XXXX.XXXX.XXXX</mac-address>
                <ipv6-address>X:X::X:X</ipv6-address>
             </config>
                <if-name>IFNAME</if-name>
          </mac-address-ipv6>
       </mac-addresses-ipv6>
    </vlan>
    </vlans>
    </snooping-bridge>
    </snooping-bridges>
    </snooping>
    </dhcp>
```

Command Syntax

```
ip dhcp snooping binding bridge <1-32> XXXX.XXXX.XXXX <1-4094> ipv6 X:X::X:X IFNAME
```

ip dhcp snooping database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-write-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <bridge-id>WORD</bridge-id>
       </ipi-dhcp-snooping_dhcp-snooping-write-database>
```

Command Syntax

```
ip dhcp snooping database bridge WORD
```

renew ip dhcp snooping binding database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-renew-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <bridge-id>WORD</bridge-id>
       </ipi-dhcp-snooping_dhcp-snooping-renew-database>
```

Command Syntax

```
renew ip dhcp snooping binding database bridge WORD
```

ip dhcp snooping source database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-write-source-binding-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <bridge-id>WORD</bridge-id>
       </ipi-dhcp-snooping_dhcp-snooping-write-source-binding-database>
```

Command Syntax

```
    ip dhcp snooping source database bridge WORD
```

renew ip dhcp snooping source binding database bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-renew-source-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <bridge-id>WORD</bridge-id>
       </ipi-dhcp-snooping_dhcp-snooping-renew-source-database>
```

Command Syntax

```
    renew ip dhcp snooping source binding database bridge WORD
```

clear ip dhcp snooping source binding bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-clear-source-binding-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <bridge-id>WORD</bridge-id>
       </ipi-dhcp-snooping_dhcp-snooping-clear-source-binding-database>
```

Command Syntax

```
    clear ip dhcp snooping source binding bridge WORD
```

clear ip dhcp snooping binding bridge WORD

Attribute Name: bridge-id

Attribute Type: string

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-clear-database xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <bridge-id>WORD</bridge-id>
       </ipi-dhcp-snooping_dhcp-snooping-clear-database>
```

Command Syntax

```
    clear ip dhcp snooping binding bridge WORD
```

debug ip dhcp snooping (event|rx|tx|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|packet|all)

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-terminal-debug-on xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <terminal-debug-options>event</terminal-debug-options>
       </ipi-dhcp-snooping_dhcp-snooping-terminal-debug-on>
```

Command Syntax

```
    debug ip dhcp snooping (event|rx|tx|packet|all)
```

no debug ip dhcp snooping (event|rx|tx|packet|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|packet|all)

Netconf RPC payload

```
       <ipi-dhcp-snooping_dhcp-snooping-terminal-debug-off xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-dhcp">
       <terminal-debug-options>event</terminal-debug-options>
       </ipi-dhcp-snooping_dhcp-snooping-terminal-debug-off>
```

Command Syntax

```
    no debug ip dhcp snooping (event|rx|tx|packet|all)
```

IPI-DHCP-SNOOPING-INTERFACE

Configure snooping trust

Use this command to enable the snooping trust on the interface level.

Attribute Name: snooping-trust

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <trust>
      <config>
            </snooping-trust><!-- operation="delete"-->
      </config>
   </trust>
</interface>
</interfaces>
</snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping trust
```

Configure verify snooping vlan

Use this command to enable the IPSG feature at the interface level.

Attribute Name: verify-snooping-vlan

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <verify>
      <config>
            </verify-snooping-vlan>
      </config>
   </verify>
</interface>
</interfaces>
</snooping>
</dhcp>
```

Command Syntax

```
ip verify source dhcp-snooping-vlan
```

Configure verify access group mode

Use this command to enable the snooping access-group on the interface level.

Attribute Name: verify-access-group-mode

Attribute Type: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
<snooping>
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <verify>
      <config>
             </verify-access-group-mode><!-- operation="delete"-->
      </config>
   </verify>
</interface>
</interfaces>
</snooping>
</dhcp>
```

Command Syntax

```
ip verify source access-group mode merge
```

clear hsl ipc-stat VALUE VALUE

Attribute Name: start-value

Attribute Type: uint16

Attribute Name: end-value

Attribute Type: uint16

Netconf RPC payload

```
      <platform-clear-hsl-ipc-stat-values xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-ras">
      <start-value>VALUE</start-value>
      <end-value>VALUE</end-value>
      </platform-clear-hsl-ipc-stat-values>
```

Command Syntax

```
clear hsl ipc-stat VALUE VALUE
```

clear hsl ipc-stat

Netconf RPC payload

```
      <platform-clear-hsl-ipc-stat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl ipc-stat
```

clear hsl mlag mac-sync-count

Netconf RPC payload

```
      <platform-clear-hsl-mlag-mac-sync xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl mlag mac-sync-count
```

clear hardware-discard-counters

Netconf RPC payload

```
      <platform-clear-hardware-discard-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hardware-discard-counters
```

clear hsl fdb debug-counters

Netconf RPC payload

```
      <platform-clear-hsl-fdb-debug-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl fdb debug-counters
```

clear hsl system-cpu-stats

Netconf RPC payload

```
      <platform-clear-hsl-system-cpu-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ras"/>
```

Command Syntax

```
clear hsl system-cpu-stats
```

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IPI-UNICAST-RPF

Configure enable route lookup

Use this attribute to enable uRPF globally on the system

This command is supported when following feature are enabled Unicast Reverse Path Forwarding feature

Attribute Name: enable-route-lookup

Attribute Type: empty

Netconf edit-config payload

```
<unicast-rpf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-unicast-rpf">
<global>
<config>
   </enable-route-lookup><!-- operation="delete"-->
</config>
</global>
</unicast-rpf>
```

Command Syntax

```
ip urpf enable
```

Configure enable default route check

Use this attribute to enable default route to match when checking source IP address

This command is supported when following feature are enabled Unicast Reverse Path Forwarding feature

Attribute Name: enable-default-route-check

Attribute Type: empty

Netconf edit-config payload

```
<unicast-rpf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-unicast-rpf">
<global>
<config>
   </enable-default-route-check><!-- operation="delete"-->
</config>
</global>
</unicast-rpf>
```

Command Syntax

```
ip urpf allow-default
```

Configure source reachability mode

Use this attribute to enable uRPF for an interface with specified reachability mode

This command is supported when following feature are enabled Unicast Reverse Path Forwarding feature

Attribute Name: source-reachability-mode

Attribute Type: enum (any|rx)

Netconf edit-config payload

```
   <unicast-rpf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-unicast-rpf">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <source-reachability-mode>any</source-reachability-mode> <!--
operation="delete"-->
   </interface>
   </interfaces>
   </unicast-rpf>
```

Command Syntax

```
    ip verify unicast source reachable-via (any|rx)
```

IPI-OSPF-INTERFACE-TRACKING

Configure event name

Attribute used to specify the event-name for OSPF interface tracking.

Attribute Name: event-name

Attribute Type: string

Attribute Name: event-match-criteria

Attribute Type: enum (all|any)

Netconf edit-config payload

```
   <ospf-interfaces-events-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ospf-interface-tracking">
   <ospf-interface-events-tracking> <!-- operation="delete"-->
      <event-name>NAME</event-name>
      <config>
         <event-name>NAME</event-name>
         <event-match-criteria>all</event-match-criteria>
      </config>
   </ospf-interface-events-tracking>
   </ospf-interfaces-events-tracking>
```

Command Syntax

```
    if-event-track ospf event NAME match (all|any)
```

Configure event neighbor ip address

Attribute used to specify the event neighbor IP address for OSPF interface tracking event.

Attribute Name: event-neighbor-ip-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
    <ospf-interfaces-events-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ospf-interface-tracking">
    <ospf-interface-events-tracking>
        <event-name>NAME</event-name>
        <config>
            <event-name>NAME</event-name>
        </config>
        <event-neighbor-ip-address>A.B.C.D</event-neighbor-ip-address> <!--
operation="delete"-->
    </ospf-interface-events-tracking>
    </ospf-interfaces-events-tracking>
```

Command Syntax

```
     event nbr A.B.C.D down
```

Configure name

Attribute used to specify the interface name for OSPF interface tracking event action.

Attribute Name: name

Attribute Type: string

Attribute Name: cost

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
    <ospf-interfaces-events-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ospf-interface-tracking">
    <ospf-interface-events-tracking>
        <event-name>NAME</event-name>
        <config>
            <event-name>NAME</event-name>
        </config>
    <actions>
    <interfaces>
    <interface> <!-- operation="delete"-->
        <name>IFNAME</name>
        <config>
            <name>IFNAME</name>
            <cost>1</cost>
        </config>
    </interface>
```

```
</interfaces>
</actions>
</ospf-interface-events-tracking>
</ospf-interfaces-events-tracking>
```

Command Syntax

```
action interface IFNAME cost <1-65535>
```

IPI-PORT-MIRROR

Configure description

Use this attribute to add a description to port-mirror session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
   <id>1</id>
   <config>
      <id>1</id>
   </config>
   <description>LINE</description> <!-- operation="delete"-->
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
description LINE
```

Configure interface name

Use this attribute to configure port mirror local interface

This command is supported when following feature are enabled advance mirror feature

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
```

```
    <id>1</id>
    <config>
        <id>1</id>
    </config>
<destination>
<local>
<config>
       <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
</config>
</local>
</destination>
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
 destination interface IFNAME
```

Configure reflector interface name

Use this attribute to configure port mirror remote reflector interface

This command is supported when following feature are enabled advance mirror feature

Attribute Name: reflector-interface-name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
    <id>1</id>
    <config>
        <id>1</id>
    </config>
<destination>
<remote>
<config>
       <vlan-id>2</vlan-id>
       <reflector-interface-name>IFNAME</reflector-interface-name>
</config>
</remote>
</destination>
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
destination remote vlan <2-4094> reflector-port IFNAME
```

Configure name

Configure ERSPAN destination name

This command is supported when following feature are enabled advance mirror feature

Attribute Name: name

Attribute Type: string

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
   <id>1</id>
   <config>
      <id>1</id>
   </config>
<destination>
<erspan>
<config>
      <name>WORD</name> <!-- operation="delete"-->
</config>
</erspan>
</destination>
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
destination erspan WORD
```

Configure direction

Source interface direction

This command is supported when following feature are enabled advance mirror feature

Attribute Name: direction

Attribute Type: bits (rx|tx|both)

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
   <id>1</id>
   <config>
      <id>1</id>
   </config>
```

```
<source-interfaces>
<source-interface>
   <name>IFNAME</name>
   <config>
      <name>IFNAME</name>
   </config>
      <direction>rx</direction>
</source-interface>
</source-interfaces>
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
source interface IFNAME ((rx|tx|both)|)
```

Configure source vlan

Use this attribute to add VLAN monitor source

This command is supported when following feature are enabled advance mirror feature

Attribute Name: source-vlan

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
   <id>1</id>
   <config>
      <id>1</id>
   </config>
<source-vlans>
<config>
      <source-vlan>VLAN_RANGE</source-vlan> <!-- operation="delete"-->
</config>
</source-vlans>
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
source vlan VLAN_RANGE
```

Configure enabled

Use this attribute to shut/unshut a port-mirror session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: enabled

Attribute Type: uint8

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
   <id>1</id>
   <config>
      <id>1</id>
   </config>
<session-enabled>
<config>
      </enabled><!-- operation="delete"-->
</config>
</session-enabled>
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
 no shut
```

Configure id

Use this attribute to shut/unshut a port-mirror session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: enabled

Attribute Type: uint8

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<sessions>
<session>
   <id>1</id>
   <config>
      <id>1</id>
   </config>
<session-enabled>
<config>
      </enabled><!-- operation="delete"-->
</config>
</session-enabled>
</session>
</sessions>
</port-mirror>
```

Command Syntax

```
no monitor session <1-18> shut
```

Configure erspan-destinations name

Sets the ERSPAN destination name

This command is supported when following feature are enabled advance mirror feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination> <!-- operation="delete"-->
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
monitor destination erspan NAME
```

Configure dest ip

Set the destination IP of the GRE tunnel

This command is supported when following feature are enabled advance mirror feature

Attribute Name: dest-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <dest-ip>A.B.C.D/X:X::X:X</dest-ip> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
dest-ip A.B.C.D/X:X::X:X
```

Configure vrf name

Use this attribute to set the connection VRF name

This command is supported when following feature are enabled advance mirror feature

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
vrf WORD
```

Configure erspan id

ERSPAN session id

This command is supported when following feature are enabled advance mirror feature

Attribute Name: erspan-id

Attribute Type: uint32

Attribute Range: 1-1023

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <erspan-id>1</erspan-id> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
erspan-id <1-1023>
```

Configure origin ip

Set the origin IP of the GRE tunnel

This command is supported when following feature are enabled advance mirror feature

Attribute Name: origin-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <origin-ip>A.B.C.D/X:X::X:X</origin-ip> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
origin-ip A.B.C.D/X:X::X:X
```

Configure ttl

This attribute is used to set time to live

This command is supported when following feature are enabled advance mirror feature

Attribute Name: ttl

Attribute Type: uint16

Attribute Range: 1-255

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <ttl>1</ttl> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
ttl <1-255>
```

Configure dscp

Use this attribute to set the DSCP value used for the GRE tunnel

This command is supported when following feature are enabled advance mirror feature

Attribute Name: dscp

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <dscp>0</dscp> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
dscp <0-63>
```

Configure enable truncate

Enable/Disable packet truncate on the ERSPAN sender session

This command is supported when following feature are enabled advance mirror feature

Attribute Name: enable-truncate

Attribute Type: boolean

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <enable-truncate>true</enable-truncate> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
enable-truncate
```

Configure erspan type

Use this attribute to set the ERSPAN type

This command is supported when following feature are enabled advance mirror feature

Attribute Name: erspan-type

Attribute Type: enum (1|3)

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <erspan-type>1</erspan-type> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
erspan-type (1|3)
```

Configure hardware id

Unique identifier of an ERSPAN engine within a system.

This command is supported when following feature are enabled advance mirror feature

Attribute Name: hardware-id

Attribute Type: uint8

Attribute Range: 0-63

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <hardware-id>0</hardware-id> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
hardware-id <0-63>
```

Configure switch id

Use this attribute to set the switch ID (platform specific info)

This command is supported when following feature are enabled advance mirror feature

Attribute Name: switch-id

Attribute Type: uint16

Attribute Range: 0-511

Netconf edit-config payload

```
<port-mirror xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-mirror">
<erspan-destinations>
<erspan-destination>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <switch-id>0</switch-id> <!-- operation="delete"-->
</erspan-destination>
</erspan-destinations>
</port-mirror>
```

Command Syntax

```
switch-id <0-511>
```

IPI-RIPNG

Configure options

This attribute enables debugging for RIPng

Attribute Name: options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib)

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<debug>
<config>
   <options>all</options> <!-- operation="delete"-->
</config>
</debug>
</ripng>
```

Command Syntax

```
debug ipv6 rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib|)
```

Configure split horizon

Use this attribute to perform the split-horizon action on the interface. Deleting this attribute would set the split-horizon to poisoned reverse which is the default value.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <split-horizon>true</split-horizon> <!-- operation="delete"-->
</interface>
</interfaces>
</ripng>
```

Command Syntax

```
ipv6 rip split-horizon
```

Configure name

Use this attribute to perform the split-horizon action on the interface. Deleting this attribute would set the split-horizon to poisoned reverse which is the default value.

Attribute Name: split-horizon

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <split-horizon>true</split-horizon> <!-- operation="delete"-->
</interface>
</interfaces>
</ripng>
```

Command Syntax

```
no ipv6 rip split-horizon
```

Configure enabled

Use this attribute to perform the router rip action on the interface

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enabled><!-- operation="delete"-->
</interface>
</interfaces>
</ripng>
```

Command Syntax

```
ipv6 router rip
```

Configure metric offset

Use this attribute to perform the metric-offset action on the interface

Attribute Name: metric-offset

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <metric-offset>1</metric-offset> <!-- operation="delete"-->
</interface>
</interfaces>
</ripng>
```

Command Syntax

```
ipv6 rip metric-offset <1-16>
```

Configure ripng enabled

Use this attribute to enable the router instance

Attribute Name: ripng-enabled

Attribute Type: uint8

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
   </ripng-enabled>
</config>
</instance>
</ripng>
```

Command Syntax

```
 router ipv6 rip
```

Configure enable cisco metric behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
   <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
</config>
</instance>
</ripng>
```

Command Syntax

```
 cisco-metric-behavior enable
```

Configure instance enable-cisco-metric-behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
```

```
      <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
   </config>
   </instance>
   </ripng>
```

Command Syntax

```
    cisco-metric-behavior disable
```

Configure passive interfaces

Use this attribute to block RIP broadcast on the interface

Attribute Name: passive-interfaces

Attribute Type: string

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
   <config>
      <passive-interfaces>IFNAME</passive-interfaces> <!-- operation="delete"-->
   </config>
   </instance>
   </ripng>
```

Command Syntax

```
    passive-interface IFNAME
```

Configure distance

Use this attribute to set the administrative distance. The administrative distance is a feature used by the routers to select the path when there are two or more different routes to the same destination from two different routing protocols. A smaller administrative distance indicating a more reliable protocol

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
   <config>
      <distance>1</distance> <!-- operation="delete"-->
   </config>
   </instance>
   </ripng>
```

Command Syntax

```
distance <1-255>
```

Configure static routes

Use this attribute to configure static RIP routes

Attribute Name: static-routes

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
   <static-routes>X:X::X:X/M</static-routes> <!-- operation="delete"-->
</config>
</instance>
</ripng>
```

Command Syntax

```
route X:X::X:X/M
```

Configure aggregate prefixes

Use this attribute to configure aggregate prefixes

Attribute Name: aggregate-prefixes

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
   <aggregate-prefixes>X:X::X:X/M</aggregate-prefixes> <!-- operation="delete"-->
</config>
</instance>
</ripng>
```

Command Syntax

```
aggregate-address X:X::X:X/M
```

Configure default metric

Use this attribute to specify the metrics to be assigned to redistributed routers

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
   <default-metric>1</default-metric> <!-- operation="delete"-->
</config>
</instance>
</ripng>
```

Command Syntax

```
default-metric <1-15>
```

Configure originate default route

Use this attribute to add default routes to the RIP updates

Attribute Name: originate-default-route

Attribute Type: empty

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
   </originate-default-route><!-- operation="delete"-->
</config>
</instance>
</ripng>
```

Command Syntax

```
default-information originate
```

Configure receive buffer size

Use this attribute to run-time configure the RIP UDP receive-buffer size

Attribute Name: receive-buffer-size

Attribute Type: uint32

Default Value: 8192

Attribute Range: 8192-2147483647

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<config>
   <receive-buffer-size>8192</receive-buffer-size> <!-- operation="delete"-->
</config>
</instance>
</ripng>
```

Command Syntax

```
recv-buffer-size <8192-2147483647>
```

Configure route type

Use this attribute to redistribute information from other routing protocols

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf6|isis|bgp)

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<redistribute-policies>
<redistribute-policy> <!-- operation="delete"-->
   <route-type>connected</route-type>
   <config>
      <route-type>connected</route-type>
   </config>
</redistribute-policy>
</redistribute-policies>
</instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp)
```

Configure route map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<redistribute-policies>
<redistribute-policy>
   <route-type>connected</route-type>
   <config>
      <route-type>connected</route-type>
      <metric>0</metric>
   </config>
   <route-map>WORD</route-map>
```

```
</redistribute-policy>
</redistribute-policies>
</instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp) metric <0-16> route-map WORD
```

Configure metric

Use this attribute to redistribute metric information from other routing protocols

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<redistribute-policies>
<redistribute-policy>
   <route-type>connected</route-type>
   <config>
      <route-type>connected</route-type>
   </config>
   <metric>0</metric>
</redistribute-policy>
</redistribute-policies>
</instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<redistribute-policies>
<redistribute-policy>
   <route-type>connected</route-type>
   <config>
      <route-type>connected</route-type>
```

```
    </config>
    <route-map>WORD</route-map>
</redistribute-policy>
</redistribute-policies>
</instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|isis|bgp) route-map WORD
```

Configure route table update interval

Use this attribute to adjust basic routing protocol update timer interval

Attribute Name: route-table-update-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: route-info-timeout-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: garbage-collection-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<timers>
<config>
    <route-info-timeout-interval>5</route-info-timeout-interval>
    <garbage-collection-interval>5</garbage-collection-interval>
    <route-table-update-interval>5</route-table-update-interval>
</config>
</timers>
</instance>
</ripng>
```

Command Syntax

```
timers basic <5-2147483647> <5-2147483647> <5-2147483647>
```

Configure address

Use this attribute to specify a link local address of neighbor router. It is used for each connected point-to-point link. This command exchanges non-broadcast routing information. It can be used multiple times for additional neighbors

Attribute Name: address

Attribute Type: inet:ipv6-address

Attribute Name: if-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<neighbors>
<neighbor> <!-- operation="delete"-->
   <address>X:X::X:X</address>
   <config>
      <address>X:X::X:X</address>
      <if-name>IFNAME</if-name>
   </config>
</neighbor>
</neighbors>
</instance>
</ripng>
```

Command Syntax

```
 neighbor X:X::X:X IFNAME
```

Configure type

Use this attribute to decide the type of packets to which the filtering is applied

Attribute Name: type

Attribute Type: enum (in|out)

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
<filtering-route-maps>
<filtering-route-map>
   <type>in</type>
   <config>
      <type>in</type>
      <route-map-name>WORD</route-map-name>
   </config>
</filtering-route-map>
```

```
</filtering-route-maps>
</interface>
</interfaces>
</instance>
</ripng>
```

Command Syntax

```
route-map WORD (in|out) IFNAME
```

Configure access list name

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
<offset-lists>
<offset-list>
   <direction>in</direction>
   <config>
      <direction>in</direction>
      <access-list-name>WORD</access-list-name>
   </config>
      <metric>0</metric>
</offset-list>
</offset-lists>
</interface>
</interfaces>
</instance>
</ripng>
```

Command Syntax

```
offset-list WORD (in|out) <0-16> IFNAME
```

Configure direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
   </config>
<distribute-lists>
<distribute-list>
   <direction>in</direction>
   <config>
      <direction>in</direction>
      <access-list-name>WORD</access-list-name>
   </config>
</distribute-list>
</distribute-lists>
</interface>
</interfaces>
</instance>
</ripng>
```

Command Syntax

```
 distribute-list WORD (in|out) IFNAME
```

Configure list name

Use this attribute to decide the type of packets to which the distribute list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<interfaces>
<interface>
   <name>IFNAME</name>
   <config>
      <name>WORD</name>
```

```
    </config>
<distribute-prefix-lists>
<distribute-prefix-list>
    <direction>in</direction>
    <config>
        <direction>in</direction>
        <list-name>WORD</list-name>
    </config>
</distribute-prefix-list>
</distribute-prefix-lists>
</interface>
</interfaces>
</instance>
</ripng>
```

Command Syntax

```
distribute-list prefix WORD (in|out) IFNAME
```

Configure offset-list metric

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<offset-lists>
<offset-list>
    <direction>in</direction>
    <config>
        <direction>in</direction>
        <access-list-name>WORD</access-list-name>
    </config>
    <metric>0</metric>
</offset-list>
</offset-lists>
</instance>
</ripng>
```

Command Syntax

```
offset-list WORD (in|out) <0-16>
```

Configure distribute-list direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<distribute-lists>
<distribute-list>
   <direction>in</direction>
   <config>
      <direction>in</direction>
      <access-list-name>WORD</access-list-name>
   </config>
</distribute-list>
</distribute-lists>
</instance>
</ripng>
```

Command Syntax

```
 distribute-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to decide the type of packets to which the distribute list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
<distribute-prefix-lists>
<distribute-prefix-list>
   <direction>in</direction>
   <config>
      <direction>in</direction>
      <list-name>WORD</list-name>
   </config>
</distribute-prefix-list>
</distribute-prefix-lists>
```

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```
</instance>
</ripng>
```

Command Syntax

```
distribute-list prefix WORD (in|out)
```

debug ipv6 rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib)

Netconf RPC payload

```
<ripng-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<terminal-debug-options>all</terminal-debug-options>
</ripng-terminal-debug-on>
```

Command Syntax

```
debug ipv6 rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib)
```

no debug ipv6 rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|events|packet send|packet recv|packet|packet detail|nsm|rib)

Netconf RPC payload

```
<ripng-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ripng">
<terminal-debug-options>all</terminal-debug-options>
</ripng-terminal-debug-off>
```

Command Syntax

```
no debug ipv6 rip (all|events|packet send|packet recv|packet|packet detail|nsm|rib)
```

clear ipv6 rip route (connected|static|isis|ospf6|bgp|rip|all)

Attribute Name: type

Attribute Type: enum (connected|static|isis|ospf6|bgp|rip|all)

Netconf RPC payload

```
<ripng-clear-route xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<type>connected</type>
</ripng-clear-route>
```

Command Syntax

```
clear ipv6 rip route (connected|static|isis|ospf6|bgp|rip|all)
```

clear ipv6 rip route X:X::X:X/M

Attribute Name: prefix

Attribute Type: string

Netconf RPC payload

```
       <ripng-clear-route-prefix xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
ripng">
       <prefix>X:X::X:X/M</prefix>
       </ripng-clear-route-prefix>
```

Command Syntax

```
     clear ipv6 rip route X:X::X:X/M
```

IPI-RIPNG-VRF

Configure vrf name

VRF Name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf> <!-- operation="delete"-->
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
      </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
     address-family ipv6 vrf NAME
```

Configure enable cisco metric behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
      </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
    cisco-metric-behavior enable
```

Configure vrf enable-cisco-metric-behavior

Use this attribute to enable the metric update consistent with Cisco

Attribute Name: enable-cisco-metric-behavior

Attribute Type: boolean

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <enable-cisco-metric-behavior>true</enable-cisco-metric-behavior> <!--
operation="delete"-->
      </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
    cisco-metric-behavior disable
```

Configure passive interfaces

Use this attribute to block RIP broadcast on the interface

Attribute Name: passive-interfaces

Attribute Type: string

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <passive-interfaces>IFNAME</passive-interfaces> <!-- operation="delete"--
>
      </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
    passive-interface IFNAME
```

Configure distance

Use this attribute to set the administrative distance. The administrative distance is a feature used by the routers to select the path when there are two or more different routes to the same destination from two different routing protocols. A smaller administrative distance indicating a more reliable protocol

Attribute Name: distance

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <distance>1</distance> <!-- operation="delete"-->
      </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
    distance <1-255>
```

Configure static routes

Use this attribute to configure static RIP routes

Attribute Name: static-routes

Attribute Type: string

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <static-routes>X:X::X:X/M</static-routes> <!-- operation="delete"-->
      </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
    route X:X::X:X/M
```

Configure aggregate prefixes

Use this attribute to configure aggregate prefixes

Attribute Name: aggregate-prefixes

Attribute Type: string

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
            <aggregate-prefixes>X:X::X:X/M</aggregate-prefixes> <!--
operation="delete"-->
      </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
    aggregate-address X:X::X:X/M
```

Configure default metric

Use this attribute to specify the metrics to be assigned to redistributed routers

Attribute Name: default-metric

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-15

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
         <default-metric>1</default-metric> <!-- operation="delete"-->
   </vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
 default-metric <1-15>
```

Configure originate default route

Use this attribute to add default routes to the RIP updates

Attribute Name: originate-default-route

Attribute Type: empty

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
         </originate-default-route><!-- operation="delete"-->
   </vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
default-information originate
```

Configure receive buffer size

Use this attribute to run-time configure the RIP UDP receive-buffer size

Attribute Name: receive-buffer-size

Attribute Type: uint32

Default Value: 8192

Attribute Range: 8192-2147483647

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
         <receive-buffer-size>8192</receive-buffer-size> <!-- operation="delete"--
>
   </vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
recv-buffer-size <8192-2147483647>
```

Configure route type

Use this attribute to redistribute information from other routing protocols

Attribute Name: route-type

Attribute Type: enum (connected|static|ospf6|bgp)

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <redistribute-policies>
      <redistribute-policy> <!-- operation="delete"-->
```

```
            <route-type>connected</route-type>
            <config>
               <route-type>connected</route-type>
            </config>
         </redistribute-policy>
      </redistribute-policies>
   </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|bgp)
```

Configure route map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
         <redistribute-policies>
         <redistribute-policy>
            <route-type>connected</route-type>
            <config>
               <route-type>connected</route-type>
               <metric>0</metric>
            </config>
               <route-map>WORD</route-map>
         </redistribute-policy>
      </redistribute-policies>
   </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|bgp) metric <0-16> route-map WORD
```

Configure metric

Use this attribute to redistribute metric information from other routing protocols

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <redistribute-policies>
      <redistribute-policy>
         <route-type>connected</route-type>
         <config>
            <route-type>connected</route-type>
         </config>
            <metric>0</metric>
      </redistribute-policy>
   </redistribute-policies>
</vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
redistribute (connected|static|ospf6|bgp) metric <0-16>
```

Configure redistribute-policy route-map

Use this attribute to redistribute route-map from other routing protocols

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
```

```
        <vrf-name>NAME</vrf-name>
        <config>
           <vrf-name>WORD</vrf-name>
        </config>
        <redistribute-policies>
        <redistribute-policy>
           <route-type>connected</route-type>
           <config>
              <route-type>connected</route-type>
           </config>
              <route-map>WORD</route-map>
        </redistribute-policy>
     </redistribute-policies>
  </vrf>
  </vrfs>
  </instance>
  </ripng>
```

Command Syntax

```
 redistribute (connected|static|ospf6|bgp) route-map WORD
```

Configure route table update interval

Use this attribute to adjust basic routing protocol update timer interval

Attribute Name: route-table-update-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: route-info-timeout-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Attribute Name: garbage-collection-interval

Attribute Type: uint32

Attribute Range: 5-2147483647

Netconf edit-config payload

```
  <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
     <vrfs>
     <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
           <vrf-name>WORD</vrf-name>
        </config>
        <timers>
        <config>
              <route-info-timeout-interval>5</route-info-timeout-interval>
```

```
                <garbage-collection-interval>5</garbage-collection-interval>
                <route-table-update-interval>5</route-table-update-interval>
        </config>
    </timers>
</vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
timers basic <5-2147483647> <5-2147483647> <5-2147483647>
```

Configure address

Use this attribute to specify a link local address of neighbor router. It is used for each connected point-to-point link. This command exchanges non-broadcast routing information. It can be used multiple times for additional neighbors

Attribute Name: address

Attribute Type: inet:ipv6-address

Attribute Name: if-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
    <vrfs>
    <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
            <vrf-name>WORD</vrf-name>
        </config>
        <neighbors>
        <neighbor> <!-- operation="delete"-->
            <address>X:X::X:X</address>
            <config>
                <address>X:X::X:X</address>
                <if-name>IFNAME</if-name>
            </config>
        </neighbor>
    </neighbors>
</vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
neighbor X:X::X:X IFNAME
```

Configure type

Use this attribute to decide the type of packets to which the filtering is applied

Attribute Name: type

Attribute Type: enum (in|out)

Attribute Name: route-map-name

Attribute Type: string

Attribute Range: 1-63

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
            <name>WORD</name>
         </config>
         <filtering-route-maps>
         <filtering-route-map>
            <type>in</type>
            <config>
               <type>in</type>
               <route-map-name>WORD</route-map-name>
            </config>
         </filtering-route-map>
      </filtering-route-maps>
   </interface>
</interfaces>
</vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
 route-map WORD (in|out) IFNAME
```

Configure access list name

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
            <name>WORD</name>
         </config>
         <offset-lists>
         <offset-list>
            <direction>in</direction>
            <config>
               <direction>in</direction>
               <access-list-name>WORD</access-list-name>
            </config>
               <metric>0</metric>
         </offset-list>
      </offset-lists>
   </interface>
</interfaces>
</vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
offset-list WORD (in|out) <0-16> IFNAME
```

Configure direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <interfaces>
      <interface>
         <name>IFNAME</name>
         <config>
            <name>WORD</name>
         </config>
         <distribute-lists>
         <distribute-list>
            <direction>in</direction>
            <config>
               <direction>in</direction>
               <access-list-name>WORD</access-list-name>
            </config>
         </distribute-list>
      </distribute-lists>
   </interface>
</interfaces>
</vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
distribute-list WORD (in|out) IFNAME
```

Configure list name

Use this attribute to decide the type of packets to which the distribute list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
```

```
        <config>
           <vrf-name>WORD</vrf-name>
        </config>
        <interfaces>
        <interface>
           <name>IFNAME</name>
           <config>
              <name>WORD</name>
           </config>
           <distribute-prefix-lists>
           <distribute-prefix-list>
              <direction>in</direction>
              <config>
                 <direction>in</direction>
                 <list-name>WORD</list-name>
              </config>
           </distribute-prefix-list>
        </distribute-prefix-lists>
     </interface>
  </interfaces>
  </vrf>
  </vrfs>
  </instance>
  </ripng>
```

Command Syntax

```
distribute-list prefix WORD (in|out) IFNAME
```

Configure offset-list metric

This attribute describes the metric used for offset list

Attribute Name: metric

Attribute Type: uint8

Attribute Range: 0-16

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
  <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
  <instance>
     <vrfs>
     <vrf>
        <vrf-name>NAME</vrf-name>
        <config>
           <vrf-name>WORD</vrf-name>
        </config>
        <offset-lists>
        <offset-list>
```

```
            <direction>in</direction>
            <config>
               <direction>in</direction>
               <access-list-name>WORD</access-list-name>
            </config>
               <metric>0</metric>
         </offset-list>
      </offset-lists>
   </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
offset-list WORD (in|out) <0-16>
```

Configure distribute-list direction

Use this attribute to decide the type of packets to which the distribute list is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: access-list-name

Attribute Type: string

Netconf edit-config payload

```
   <ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
   <instance>
      <vrfs>
      <vrf>
         <vrf-name>NAME</vrf-name>
         <config>
            <vrf-name>WORD</vrf-name>
         </config>
         <distribute-lists>
         <distribute-list>
            <direction>in</direction>
            <config>
               <direction>in</direction>
               <access-list-name>WORD</access-list-name>
            </config>
         </distribute-list>
      </distribute-lists>
   </vrf>
   </vrfs>
   </instance>
   </ripng>
```

Command Syntax

```
distribute-list WORD (in|out)
```

Configure distribute-prefix-list direction

Use this attribute to decide the type of packets to which the distribute list prefix is applied

Attribute Name: direction

Attribute Type: enum (in|out)

Attribute Name: list-name

Attribute Type: string

Netconf edit-config payload

```
<ripng xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ripng">
<instance>
   <vrfs>
   <vrf>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>WORD</vrf-name>
      </config>
      <distribute-prefix-lists>
      <distribute-prefix-list>
         <direction>in</direction>
         <config>
            <direction>in</direction>
            <list-name>WORD</list-name>
         </config>
      </distribute-prefix-list>
   </distribute-prefix-lists>
</vrf>
</vrfs>
</instance>
</ripng>
```

Command Syntax

```
distribute-list prefix WORD (in|out)
```

IPI-ARP

Configure ip address

Use this attribute to create a static ARP entry

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<entries>
<entry> <!-- operation="delete"-->
   <ip-address>A.B.C.D</ip-address>
   <config>
      <ip-address>A.B.C.D</ip-address>
      <vrf-name>NAME</vrf-name>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
   </config>
   <vrf-name>NAME</vrf-name>
</entry>
</entries>
</arp>
```

Command Syntax

```
ip arp (vrf NAME|) A.B.C.D XXXX.XXXX.XXXX
```

Configure respond to arp request

Use this attribute to set the response to ARP requests for the IP address

Attribute Name: respond-to-arp-request

Attribute Type: empty

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<entries>
<entry>
   <ip-address>A.B.C.D</ip-address>
   <config>
      <ip-address>A.B.C.D</ip-address>
      <vrf-name>NAME</vrf-name>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
   </config>
   <vrf-name>NAME</vrf-name>
   </respond-to-arp-request>
</entry>
</entries>
</arp>
```

Command Syntax

```
ip arp (vrf NAME|) A.B.C.D XXXX.XXXX.XXXX alias
```

Configure icmp redirect

Use this attribute to trap ICMP redirect packets to the CPU

This command is supported when following feature are enabled custom2 cli for DUNE board

Attribute Name: icmp-redirect

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<global>
<config>
   </icmp-redirect><!-- operation="delete"-->
</config>
</global>
</arp>
```

Command Syntax

```
ip redirects
```

Configure enable

Enable/Disable arp event debug

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<debug>
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
</arp>
```

Command Syntax

```
debug ip arp event
```

Configure enable proxy arp

Use this attribute to enable the proxy ARP feature

Attribute Name: enable-proxy-arp

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<interfaces>
```

```
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-proxy-arp><!-- operation="delete"-->
</interface>
</interfaces>
</arp>
```

Command Syntax

```
 ip proxy-arp
```

Configure enable local proxy arp

Use this attribute to enable the local proxy ARP feature

Attribute Name: enable-local-proxy-arp

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   </enable-local-proxy-arp><!-- operation="delete"-->
</interface>
</interfaces>
</arp>
```

Command Syntax

```
 ip local-proxy-arp
```

Configure enable ip redirects

Use this attribute to enable ICMP redirects in kernel

Attribute Name: enable-ip-redirects

Attribute Type: empty

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
```

```
    </config>
    </enable-ip-redirects><!-- operation="delete"-->
</interface>
</interfaces>
</arp>
```

Command Syntax

```
ip redirects
```

Configure arp ageing timeout

Use this attribute to set the ARP aging timeout. The bridge aging time affects the ARP entries which are dependent upon the MAC addresses in hardware. If a MAC address ages out, it causes the corresponding ARP entry to refresh.

Attribute Name: arp-ageing-timeout

Attribute Type: uint16

Default Value: 1500

Attribute Range: 60-36000

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
    <arp-ageing-timeout>60</arp-ageing-timeout> <!-- operation="delete"-->
</interface>
</interfaces>
</arp>
```

Command Syntax

```
arp-ageing-timeout <60-36000>
```

Configure arp reachable time

Use this attribute to set the ARP reachable time.

Attribute Name: arp-reachable-time

Attribute Type: uint16

Default Value: 60

Attribute Range: 10-36000

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
<interfaces>
<interface>
```

```
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <arp-reachable-time>10</arp-reachable-time> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </arp>
```

Command Syntax

```
arp-reachable-time <10-36000>
```

debug ip arp event

Netconf RPC payload

```
      <arp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp"/>
```

Command Syntax

```
debug ip arp event
```

no debug ip arp event

Netconf RPC payload

```
      <arp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp"/>
```

Command Syntax

```
no debug ip arp event
```

clear arp (A.B.C.D|) (vrf (all|VRFNAME|default)|)

Attribute Name: ip-address

Attribute Type: inet:ipv4-address

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
      <clear-arp-entry xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
      <ip-address>A.B.C.D</ip-address>
      <vrf-name>all</vrf-name>
      </clear-arp-entry>
```

Command Syntax

```
clear arp (A.B.C.D|) (vrf (all|VRFNAME|default)|)
```

clear arp IFNAME (vrf (all|VRFNAME|default)|)

Attribute Name: if-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <clear-arp-entry-per-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
arp">
       <if-name>IFNAME</if-name>
       <vrf-name>all</vrf-name>
       </clear-arp-entry-per-interface>
```

Command Syntax

```
     clear arp IFNAME (vrf (all|VRFNAME|default)|)
```

IPI-NEIGHBOR-DISCOVERY

Configure interface name

Use this attribute to add a static neighbor entry of the interface name

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mac-address

Attribute Type: string

Netconf edit-config payload

```
    <neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
    <entries>
    <entry> <!-- operation="delete"-->
       <interface-name>IFNAME</interface-name>
       <config>
          <interface-name>IFNAME</interface-name>
          <ipv6-address>X:X::X:X</ipv6-address>
          <mac-address>XXXX.XXXX.XXXX</mac-address>
       </config>
       <ipv6-address>X:X::X:X</ipv6-address>
    </entry>
    </entries>
    </neighbor-discovery>
```

Command Syntax

```
     ipv6 neighbor X:X::X:X IFNAME XXXX.XXXX.XXXX
```

Configure enable

Use this attribute to enable debugging for neighbor events.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
   <debug>
   <config>
      </enable><!-- operation="delete"-->
   </config>
   </debug>
   </neighbor-discovery>
```

Command Syntax

```
    debug ipv6 nd event
```

Configure nd ageing timeout

Use this attribute to set the neighbor ageing timeout value.

Attribute Name: nd-ageing-timeout

Attribute Type: uint16

Default Value: 1500

Attribute Range: 60-36000

Netconf edit-config payload

```
   <neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <nd-ageing-timeout>60</nd-ageing-timeout> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </neighbor-discovery>
```

Command Syntax

```
    nd-ageing-timeout <60-36000>
```

Configure nd reachable time

Use this attribute to set neighbor reachable time value.

Attribute Name: nd-reachable-time

Attribute Type: uint32

Default Value: 60

Attribute Range: 10-36000

Netconf edit-config payload

```
   <neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <nd-reachable-time>10</nd-reachable-time> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </neighbor-discovery>
```

Command Syntax

```
    nd-reachable-time <10-36000>
```

Configure no ip unreachable

Use this attribute to set ip unreachable.

Attribute Name: no-ip-unreachable

Attribute Type: empty

Netconf edit-config payload

```
   <neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      </no-ip-unreachable><!-- operation="delete"-->
   </interface>
   </interfaces>
   </neighbor-discovery>
```

Command Syntax

```
    no ip unreachable
```

Configure no ipv6 unreachable

Use this attribute to set ipv6 unreachable.

Attribute Name: no-ipv6-unreachable

Attribute Type: empty

Netconf edit-config payload

```
   <neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      </no-ipv6-unreachable><!-- operation="delete"-->
   </interface>
   </interfaces>
   </neighbor-discovery>
```

Command Syntax

```
    no ipv6 unreachable
```

debug ipv6 nd event

Netconf RPC payload

```
      <nd-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery"/>
```

Command Syntax

```
    debug ipv6 nd event
```

no debug ipv6 nd event

Netconf RPC payload

```
      <nd-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery"/>
```

Command Syntax

```
    no debug ipv6 nd event
```

clear ipv6 neighbors (X:X::X:X/M|) (vrf (all|VRFNAME|default)|)

Attribute Name: ipv6-address

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <clear-ipv6-nd-entry xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
       <ipv6-address>X:X::X:X/M</ipv6-address>
       <vrf-name>all</vrf-name>
       </clear-ipv6-nd-entry>
```

Command Syntax

```
    clear ipv6 neighbors (X:X::X:X/M|) (vrf (all|VRFNAME|default)|)
```

clear ipv6 neighbors IFNAME (vrf (all|VRFNAME|default)|)

Attribute Name: if-name

Attribute Type: string

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <clear-ipv6-nd-entry-per-interface xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-neighbor-discovery">
       <if-name>IFNAME</if-name>
       <vrf-name>all</vrf-name>
       </clear-ipv6-nd-entry-per-interface>
```

Command Syntax

```
    clear ipv6 neighbors IFNAME (vrf (all|VRFNAME|default)|)
```

IPI-USER-SESSION-MANAGEMENT

Configure console id

Attribute used to set line console identifcation.

Attribute Name: console-id

Attribute Type: enum (0)

Netconf edit-config payload

```
   <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
   <line-console>
   <console> <!-- operation="delete"-->
      <console-id>0</console-id>
      <config>
         <console-id>0</console-id>
      </config>
   </console>
   </line-console>
```

```
   </user-session>
```

Command Syntax

```
    line console <0-0>
```

Configure privilege level

Attribute used to set line privilege level.

Attribute Name: privilege-level

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```
   <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
   <line-console>
   <console>
      <console-id>0</console-id>
      <config>
         <console-id>0</console-id>
      </config>
      <privilege-level>1</privilege-level> <!-- operation="delete"-->
   </console>
   </line-console>
   </user-session>
```

Command Syntax

```
    privilege level <1-16>
```

Configure command history max limit

Attribute used to set line maximum limit to history commands.

Attribute Name: command-history-max-limit

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
   <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
   <line-console>
   <console>
      <console-id>0</console-id>
      <config>
         <console-id>0</console-id>
      </config>
      <command-history-max-limit>0</command-history-max-limit> <!--
operation="delete"-->
   </console>
```

```
   </line-console>
   </user-session>
```

Command Syntax

```
    history max <0-2147483647>
```

Configure seconds

Attribute used to set line timeout in seconds. The default is 0.

Attribute Name: seconds

Attribute Type: uint32

Attribute Range: 0-2147483

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
   <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
   <line-console>
   <console>
      <console-id>0</console-id>
      <config>
         <console-id>0</console-id>
      </config>
   <timeout>
   <config>
         <minutes>0</minutes> <!-- operation="delete"-->
         <seconds>0</seconds> <!-- operation="delete"-->
   </config>
   </timeout>
   </console>
   </line-console>
   </user-session>
```

Command Syntax

```
    exec-timeout <0-35791> <0-2147483>
```

Configure minutes

Attribute used to set line timeout in minutes. The default is 10 minutes.

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
   <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
   <line-console>
   <console>
      <console-id>0</console-id>
      <config>
         <console-id>0</console-id>
      </config>
   <timeout>
   <config>
         <minutes>0</minutes>
   </config>
   </timeout>
   </console>
   </line-console>
   </user-session>
```

Command Syntax

```
    exec-timeout <0-35791>
```

Configure vty id

Attribute used to set line privilege level.

Attribute Name: privilege-level

Attribute Type: uint8

Attribute Range: 1-16

Netconf edit-config payload

```
   <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
   <line-vty>
   <vty>
      <vty-id>0</vty-id>
      <config>
         <vty-id>0</vty-id>
      </config>
      <privilege-level>1</privilege-level> <!-- operation="delete"-->
   </vty>
   </line-vty>
   </user-session>
```

Command Syntax

```
    privilege level <1-16>
```

Configure vty command-history-max-limit

Attribute used to set line maximum limit to history commands.

Attribute Name: command-history-max-limit

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```
    <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
    <line-vty>
    <vty>
       <vty-id>0</vty-id>
       <config>
          <vty-id>0</vty-id>
       </config>
       <command-history-max-limit>0</command-history-max-limit> <!--
operation="delete"-->
    </vty>
    </line-vty>
    </user-session>
```

Command Syntax

```
     history max <0-2147483647>
```

Configure timeout seconds

Attribute used to set line timeout in seconds. The default is 0.

Attribute Name: seconds

Attribute Type: uint32

Attribute Range: 0-2147483

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
    <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
    <line-vty>
    <vty>
       <vty-id>0</vty-id>
       <config>
          <vty-id>0</vty-id>
       </config>
    <timeout>
    <config>
          <minutes>0</minutes> <!-- operation="delete"-->
          <seconds>0</seconds> <!-- operation="delete"-->
    </config>
    </timeout>
```

```
</vty>
</line-vty>
</user-session>
```

Command Syntax

```
exec-timeout <0-35791> <0-2147483>
```

Configure timeout minutes

Attribute used to set line timeout in minutes. The default is 10 minutes.

Attribute Name: minutes

Attribute Type: uint32

Attribute Range: 0-35791

Netconf edit-config payload

```
<user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
<line-vty>
<vty>
   <vty-id>0</vty-id>
   <config>
      <vty-id>0</vty-id>
   </config>
<timeout>
<config>
      <minutes>0</minutes>
</config>
</timeout>
</vty>
</line-vty>
</user-session>
```

Command Syntax

```
exec-timeout <0-35791>
```

clear line WORD

Attribute Name: line-name

Attribute Type: string

Attribute Range: 1-64

Netconf RPC payload

```
      <clear-line xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
      <line-name>WORD</line-name>
      </clear-line>
```

Command Syntax

```
clear line WORD
```

mem-info imi monitor-start

Attribute Name: mem-info-imi

Attribute Type: boolean

Netconf RPC payload

```
<mem-info-monitor-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-management">
<mem-info-imi>true</mem-info-imi/>
</mem-info-monitor-start>
```

Command Syntax

```
mem-info imi monitor-start
```

mem-info imi monitor-stop

Attribute Name: mem-info-imi

Attribute Type: boolean

Netconf RPC payload

```
<mem-info-monitor-stop xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-management">
<mem-info-imi>true</mem-info-imi/>
</mem-info-monitor-stop>
```

Command Syntax

```
mem-info imi monitor-stop
```

IPI-IPV6-ROUTER-ADV

Configure suppress ra

Use this attribute to suppress IPv6 Router Advertisements

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: suppress-ra

Attribute Type: uint8

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-adv">
<interfaces>
<interface>
<name>WORD</name>
```

```
      <config>
         <name>WORD</name>
      </config>
      </suppress-ra><!-- operation="delete"-->
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd suppress-ra
```

Configure suppress ra mtu

Use this attribute to disable sending MTU in Router Advertisement messages

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: suppress-ra-mtu

Attribute Type: uint8

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      </suppress-ra-mtu><!-- operation="delete"-->
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd suppress-ra mtu
```

Configure managed flag

Use this attribute to use DHCP for address config by host

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: managed-flag

Attribute Type: empty

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
```

```
      <config>
         <name>WORD</name>
      </config>
      </managed-flag><!-- operation="delete"-->
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
ipv6 nd managed-config-flag
```

Configure other config flag

Use this attribute to use DHCP for non-address config by host

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: other-config-flag

Attribute Type: empty

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      </other-config-flag><!-- operation="delete"-->
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
ipv6 nd other-config-flag
```

Configure current hop limit

Use this attribute to set advertised current hop limit

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: current-hop-limit

Attribute Type: uint8

Default Value: 64

Attribute Range: 0-255

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
```

```
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <current-hop-limit>0</current-hop-limit> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd current-hoplimit <0-255>
```

Configure link mtu

Use this attribute to set advertised link-mtu option

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: link-mtu

Attribute Type: uint32

Default Value: 1500

Attribute Range: 1280-65535

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <link-mtu>1280</link-mtu> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd link-mtu <1280-65535>
```

Configure dad attempts

Use this attribute to set number of attempts for duplicate address detection

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: dad-attempts

Attribute Type: uint16

Default Value: 1

Attribute Range: 0-600

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
      <dad-attempts>0</dad-attempts> <!-- operation="delete"-->
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
 ipv6 nd dad attempts <0-600>
```

Configure off link

The IPV6 Router Advertisement prefix off-link flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: off-link

Attribute Type: empty

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
   <config>
         </off-link><!-- operation="delete"-->
   </config>
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
 ipv6 nd prefix offlink
```

Configure no auto configuration

The IPV6 Router Advertisement prefix no auto-configuration flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: no-auto-configuration

Attribute Type: empty

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
   <config>
         </no-auto-configuration><!-- operation="delete"-->
   </config>
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd prefix no-autoconf
```

Configure valid lifetime

The IPV6 Router Advertisement prefix valid lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
```

```
   <config>
          <valid-lifetime>0</valid-lifetime> <!-- operation="delete"-->
   </config>
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd prefix valid-lifetime <0-4294967295>
```

Configure preferred lifetime

The IPV6 Router Advertisement prefix preferred lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
   <config>
          <preferred-lifetime>0</preferred-lifetime> <!-- operation="delete"-->
   </config>
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd prefix preferred-lifetime <0-4294967295>
```

Configure ipv6 address

The IPV6 Router Advertisement prefix address

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: ipv6-address

Attribute Type: string

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
   <ipv6-prefix> <!-- operation="delete"-->
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
         <ipv6-address>X:X::X:X/M</ipv6-address>
      </config>
   </ipv6-prefix>
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
 ipv6 nd prefix X:X::X:X/M
```

Configure name

The IPV6 Router Advertisement prefix address preferred lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
```

```
   <ipv6-prefix>
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
         <ipv6-address>X:X::X:X/M</ipv6-address>
         <valid-lifetime>0</valid-lifetime>
      </config>
         <preferred-lifetime>0</preferred-lifetime>
   </ipv6-prefix>
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
 ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295>
```

Configure ipv6-prefix off-link

The IPV6 Router Advertisement prefix off-link flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: off-link

Attribute Type: empty

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
   <ipv6-prefix>
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
         <ipv6-address>X:X::X:X/M</ipv6-address>
         <valid-lifetime>0</valid-lifetime>
```

```
          <preferred-lifetime>0</preferred-lifetime>
       </config>
          </off-link>
   </ipv6-prefix>
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295> off-link
```

Configure ipv6-prefix no-auto-configuration

The IPV6 Router Advertisement prefix no auto-configuration flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: no-auto-configuration

Attribute Type: empty

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <ipv6-prefixes>
   <ipv6-prefix>
      <ipv6-address>X:X::X:X/M</ipv6-address>
      <config>
         <ipv6-address>X:X::X:X/M</ipv6-address>
         <valid-lifetime>0</valid-lifetime>
         <preferred-lifetime>0</preferred-lifetime>
      </config>
         </no-auto-configuration>
   </ipv6-prefix>
```

```
</ipv6-prefixes>
</interface>
</interfaces>
</router-advertisement>
```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295> no-autoconfig
```

Configure ipv6-prefix no-auto-configuration

The IPV6 Router Advertisement prefix no auto-configuration flag

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: no-auto-configuration

Attribute Type: empty

Attribute Name: valid-lifetime

Attribute Type: uint32

Default Value: 2592000

Attribute Range: 0-4294967295

Attribute Name: preferred-lifetime

Attribute Type: uint32

Default Value: 604800

Attribute Range: 0-4294967295

Attribute Name: off-link

Attribute Type: empty

Netconf edit-config payload

```
<router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
<interfaces>
<interface>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<ipv6-prefixes>
<ipv6-prefix>
    <ipv6-address>X:X::X:X/M</ipv6-address>
    <config>
        <ipv6-address>X:X::X:X/M</ipv6-address>
        <valid-lifetime>0</valid-lifetime>
        <preferred-lifetime>0</preferred-lifetime>
        </off-link>
    </config>
        </no-auto-configuration>
</ipv6-prefix>
```

```
   </ipv6-prefixes>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295> off-link no-autoconfig
```

Configure reachable time

Use this attribute to set advertised reachability time

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: reachable-time

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-3600000

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <timers>
   <config>
         <reachable-time>0</reachable-time> <!-- operation="delete"-->
   </config>
   </timers>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
    ipv6 nd reachable-time <0-3600000>
```

Configure retransmission time

Use this attribute to set advertised retransmission timer

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: retransmission-time

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-4294967295

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <timers>
   <config>
         <retransmission-time>0</retransmission-time> <!-- operation="delete"-->
   </config>
   </timers>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
 ipv6 nd retransmission-time <0-4294967295>
```

Configure router lifetime

Use this attribute to set IPv6 router advertisement lifetime

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: router-lifetime

Attribute Type: uint16

Default Value: 1800

Attribute Range: 0-9000

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <timers>
   <config>
         <router-lifetime>0</router-lifetime> <!-- operation="delete"-->
   </config>
   </timers>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
ipv6 nd ra-lifetime <0-9000>
```

Configure max ra interval

Use this attribute to set maximum IPv6 router advertisement interval (min-ra-interval must be no greater than 0.75*max-ra-interval)

This command is supported when following feature are enabled IPv6 Router Advertisement

Attribute Name: max-ra-interval

Attribute Type: uint32

Attribute Range: 4-1800

Attribute Name: min-ra-interval

Attribute Type: uint32

Attribute Range: 3-1350

Netconf edit-config payload

```
   <router-advertisement xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipv6-router-
adv">
   <interfaces>
   <interface>
      <name>WORD</name>
      <config>
         <name>WORD</name>
      </config>
   <timers>
   <ra-interval>
   <config>
         <min-ra-interval>3</min-ra-interval>
         <max-ra-interval>4</max-ra-interval>
   </config>
   </ra-interval>
   </timers>
   </interface>
   </interfaces>
   </router-advertisement>
```

Command Syntax

```
ipv6 nd ra-interval <4-1800> (<3-1350>|)
```

IPI-ERPSV2

Configure ring name

G.8032 ring name. This attribute uniquely identifies a ring on the network device.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<rings>
<ring> <!-- operation="delete"-->
   <ring-name>RINGNAME</ring-name>
   <config>
      <ring-name>RINGNAME</ring-name>
   </config>
</ring>
</rings>
</erpsv2>
```

Command Syntax

```
g8032 ring RINGNAME
```

Configure east interface

East port associated to the protection ring

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: east-interface

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<rings>
<ring>
   <ring-name>RINGNAME</ring-name>
   <config>
      <ring-name>RINGNAME</ring-name>
   </config>
   <east-interface>IFNAME</east-interface> <!-- operation="delete"-->
</ring>
</rings>
</erpsv2>
```

Command Syntax

```
east-interface IFNAME
```

Configure west interface

West port associated to the protection ring

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: west-interface

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<rings>
<ring>
   <ring-name>RINGNAME</ring-name>
   <config>
      <ring-name>RINGNAME</ring-name>
   </config>
   <west-interface>IFNAME</west-interface> <!-- operation="delete"-->
</ring>
</rings>
</erpsv2>
```

Command Syntax

```
 west-interface IFNAME
```

Configure description

Textual description of the ring.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<rings>
<ring>
   <ring-name>RINGNAME</ring-name>
   <config>
      <ring-name>RINGNAME</ring-name>
   </config>
   <description>1</description> <!-- operation="delete"-->
</ring>
</rings>
</erpsv2>
```

Command Syntax

```
 description LINE
```

Configure profile name

G.8032 ring profile name

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<profiles>
<profile> <!-- operation="delete"-->
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
</profile>
</profiles>
</erpsv2>
```

Command Syntax

```
g8032 profile PROFILENAME
```

Configure wait to restore timer

In revertive mode the ’wait to restore’ (WTR) timer is used to prevent frequent operation of the protection switching due to intermittent signal failure defects. When recovering from a Signal fail, the delay timer must be long enough to allow the recovering network to become stable. WTR timer is activated on RPL owner node. When WTR timer is expired RPL owner node initiates the reversion process by transmitting an R-APS (NR, RB) message.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: wait-to-restore-timer

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-12

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<profiles>
<profile>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
   <wait-to-restore-timer>1</wait-to-restore-timer> <!-- operation="delete"-->
</profile>
</profiles>
</erpsv2>
```

Command Syntax

```
timer wait-to-restore <1-12>
```

Configure hold off timer

The hold-off timer is used to coordinate the timing of protection switches. When a new defect or more severe defect occurs (new SF), this event is not to be reported immediately to protection switching if the provisioned hold-off timer value is non-zero. Instead, the hold-off timer is started. When the hold-off timer expires, the trail that started the timer is checked as to whether a defect still exists. If one does exist, that defect is reported to protection switching. Hold off timer values SHOULD be specified in multiple of 100.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: hold-off-timer

Attribute Type: uint16

Default Value: 0

Attribute Range: 0-10000

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<profiles>
<profile>
   <profile-name>PROFILENAME</profile-name>
   <config>
      <profile-name>PROFILENAME</profile-name>
   </config>
   <hold-off-timer>0</hold-off-timer> <!-- operation="delete"-->
</profile>
</profiles>
</erpsv2>
```

Command Syntax

```
 timer hold-off <0-10000>
```

Configure guard time

The guard time is used to prevent Ethernet ring nodes from acting upon outdated R-APS messages and prevents the possibility of forming a closed loop. This timer period SHOULD be greater than the maximum expected forwarding delay in which an R-APS message traverses the entire ring. The period of the guard timer MAY be configured by the operator in 10 ms steps between 10 ms and 2 seconds.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: guard-time

Attribute Type: uint16

Default Value: 500

Attribute Range: 10-2000

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<profiles>
<profile>
   <profile-name>PROFILENAME</profile-name>
```

```
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
      <guard-time>10</guard-time> <!-- operation="delete"-->
   </profile>
   </profiles>
   </erpsv2>
```

Command Syntax

```
timer guard-time <10-2000>
```

Configure protection mode

This leaf defines G.8032 ring protection mode. A ring may operate in revertive or non-revertive mode. In revertive operation, after the condition(s) causing a switch has cleared, the traffic channel is restored to the working transport entity, i.e., blocked on the RPL. In non-revertive operation, the traffic channel continues to use the RPL, if it has not failed, after a switch condition has cleared.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: protection-mode

Attribute Type: enum (revertive|non-revertive)

Default Value: revertive

Netconf edit-config payload

```
   <erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
   <profiles>
   <profile>
      <profile-name>PROFILENAME</profile-name>
      <config>
         <profile-name>PROFILENAME</profile-name>
      </config>
      <protection-mode>revertive</protection-mode> <!-- operation="delete"-->
   </profile>
   </profiles>
   </erpsv2>
```

Command Syntax

```
switching mode (revertive|non-revertive)
```

Configure name

ERPS instance identifier

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance> <!-- operation="delete"-->
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
g8032 erp-instance INSTANCENAME
```

Configure erp-instance ring-name

This parameter specifies the ring instance to associated with the ERPS instance

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
   <ring-name>RINGNAME</ring-name> <!-- operation="delete"-->
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
ring RINGNAME
```

Configure mapped profile name

G.8032 ring profile name. If this profile exists in the profile configuration list, profile parameters will be imported from it, default values will be used otherwise.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: mapped-profile-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
   <erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
   <erp-instances>
   <erp-instance>
      <name>INSTANCENAME</name>
      <config>
         <name>INSTANCENAME</name>
      </config>
      <mapped-profile-name>PROFILENAME</mapped-profile-name> <!-- operation="delete"--
>
   </erp-instance>
   </erp-instances>
   </erpsv2>
```

Command Syntax

```
    g8032-profile PROFILENAME
```

Configure ring type

Defines type of a ethernet ring. A ring can be configured as major ring where ring nodes are connected in closed loop or as a sub-ring when a ring may not have a complete closed loop

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-type

Attribute Type: enum (major-ring|sub-ring|sub-ring-vc)

Default Value: major-ring

Netconf edit-config payload

```
   <erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
   <erp-instances>
   <erp-instance>
      <name>INSTANCENAME</name>
      <config>
         <name>INSTANCENAME</name>
      </config>
      <ring-type>major-ring</ring-type> <!-- operation="delete"-->
   </erp-instance>
   </erp-instances>
   </erpsv2>
```

Command Syntax

```
    ring-type (major-ring|sub-ring|sub-ring-vc)
```

Configure enable tcn propagation

Allows topology change notification (TCN) propagation to the ERPS ring if it is enabled

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: enable-tcn-propagation

Attribute Type: empty

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
   </enable-tcn-propagation><!-- operation="delete"-->
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 enable-tcn-propagation
```

Configure tcn to instances

List of Instance that are to be notified when TCN occurs for this instance if topology change notification (TCN) propagation is enabled

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: tcn-to-instances

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
   <tcn-to-instances>INSTANCENAME</tcn-to-instances> <!-- operation="delete"-->
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 tcn-to-instance INSTANCENAME
```

Configure non virtual channel

Creates a non-virtual channel

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: non-virtual-channel

Attribute Type: empty

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
   </non-virtual-channel><!-- operation="delete"-->
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 non-virtual-channel
```

Configure ring id

G.8032 ring instance identifier (Ring ID).

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: ring-id

Attribute Type: uint8

Attribute Range: 1-239

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
   <ring-id>1</ring-id> <!-- operation="delete"-->
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 ring-id <1-239>
```

Configure erp-instance description

Textual description of the erps-instance.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
   <description>1</description> <!-- operation="delete"-->
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 description LINE
```

Configure associate ring name

G.8032 ring name to be associate with.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: associate-ring-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
<associate-rings>
<associate-ring> <!-- operation="delete"-->
   <associate-ring-name>RINGNAME</associate-ring-name>
   <config>
      <associate-ring-name>RINGNAME</associate-ring-name>
   </config>
</associate-ring>
</associate-rings>
</erp-instance>
</erp-instances>
```

```
</erpsv2>
```

Command Syntax

```
 associate-ring RINGNAME
```

Configure owner port id

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: owner-port-id

Attribute Type: enum (east-interface|west-interface)

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
<instance-role>
<config>
      <owner-port-id>east-interface</owner-port-id> <!-- operation="delete"-->
</config>
</instance-role>
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 rpl role owner (east-interface|west-interface)
```

Configure neighbor port id

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: neighbor-port-id

Attribute Type: enum (east-interface|west-interface)

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
```

```
   <instance-role>
   <config>
          <neighbor-port-id>east-interface</neighbor-port-id> <!-- operation="delete"--
>
   </config>
   </instance-role>
   </erp-instance>
   </erp-instances>
   </erpsv2>
```

Command Syntax

```
    rpl role neighbor (east-interface|west-interface)
```

Configure next neighbor port id

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: next-neighbor-port-id

Attribute Type: enum (east-interface|west-interface)

Netconf edit-config payload

```
   <erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
   <erp-instances>
   <erp-instance>
      <name>INSTANCENAME</name>
      <config>
         <name>INSTANCENAME</name>
      </config>
   <instance-role>
   <config>
          <next-neighbor-port-id>east-interface</next-neighbor-port-id> <!--
operation="delete"-->
   </config>
   </instance-role>
   </erp-instance>
   </erp-instances>
   </erpsv2>
```

Command Syntax

```
    rpl role next-neighbor (east-interface|west-interface)
```

Configure non owner

This identifies the ring port for which role is configured

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: non-owner

Attribute Type: empty

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
<instance-role>
<config>
      </non-owner><!-- operation="delete"-->
</config>
</instance-role>
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
rpl role non-owner
```

Configure level

Maintainance Endpoint Level (MEL) at which R-APS PDU is transmitted. All nodes in the ring must be configured with same APS level value.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
<aps-channel>
<config>
      <level>0</level> <!-- operation="delete"-->
</config>
</aps-channel>
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
aps-channel level <0-7>
```

Configure vlan id

ERPS instance identifier

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: name

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance> <!-- operation="delete"-->
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
<aps-channel-vlans>
<aps-channel-vlan>
   <vlan-id>2</vlan-id>
   <config>
      <inner-vlan-id>2</inner-vlan-id>
   </config>
</aps-channel-vlan>
</aps-channel-vlans>
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 aps-channel vlan <2-4094> (inner-vlan <2-4094>|)
```

Configure data vlan

List of VLAN-IDs, protected by ring instance. For example ’2, 3-7, 9, 10-100’ VLAN-IDs MUST not overlap with VLAN-IDs of any other instance of the same ring.

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: data-vlan

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
<data>
<config>
       <data-vlan>VLAN_RANGE</data-vlan> <!-- operation="delete"-->
</config>
</data>
</erp-instance>
</erp-instances>
</erpsv2>
```

Command Syntax

```
 data vlan VLAN_RANGE
```

Configure attached instance

This parameter specifies the ERPS instance on major ring which allows the RAPS messages of Sub-ring, so RAPS message will be sent to other nodes in the sub-ring

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: attached-instance

Attribute Type: string

Attribute Range: 1-31

Attribute Name: channel-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<erp-instances>
<erp-instance>
   <name>INSTANCENAME</name>
   <config>
      <name>INSTANCENAME</name>
   </config>
<virtual-channel>
<config>
       <channel-id>2</channel-id>
       <attached-instance>INSTANCENAME</attached-instance>
</config>
</virtual-channel>
</erp-instance>
```

```
</erp-instances>
</erpsv2>
```

Command Syntax

```
virtual-channel (<2-4094>|) attached-to-instance INSTANCENAME
```

Configure options

Supported debug options for G.8032

This command is supported when following feature are enabled ERPS V2 feature

Attribute Name: options

Attribute Type: bits (all|tx|rx|fsm|timers|events|external|hal)

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<debug>
<config>
   <options>all</options> <!-- operation="delete"-->
</config>
</debug>
</erpsv2>
```

Command Syntax

```
debug g8032 (all|tx|rx|fsm|timers|events|external|hal)
```

Configure instance name

This parameter specifies the ERPS instance being configured in the subinterface

This command is supported when following feature are enabled SUBINTERFACE feature,ERPS V2 feature

Attribute Name: instance-name

Attribute Type: union

Netconf edit-config payload

```
<erpsv2 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-erpsv2">
<subinterfaces>
<subinterface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <instance-name>ERPSV2_SUBINTERFACE_INSTANCE_TYPE_T</instance-name>
</subinterface>
</subinterfaces>
</erpsv2>
```

Command Syntax

```
erps-instance (WORD)
```

g8032 erp-instance (INSTANCENAME|all) (force-switch|manual-switch) (east-interface|west-interface)

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-255

Attribute Name: operation

Attribute Type: enum (force-switch|manual-switch)

Attribute Name: port-id

Attribute Type: enum (east-interface|west-interface)

Netconf RPC payload

```
       <erpsv2-switch-erp-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
erpsv2">
       <instance-name>INSTANCENAME</instance-name>
       <operation>force-switch</operation>
       <port-id>east-interface</port-id>
       </erpsv2-switch-erp-instance>
```

Command Syntax

```
    g8032 erp-instance (INSTANCENAME|all) (force-switch|manual-switch) (east-
      interface|west-interface)
```

clear g8032 erp-instance (INSTANCENAME|all)

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
       <erpsv2-clear-ring-erp-instance xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
erpsv2">
       <instance-name>INSTANCENAME</instance-name>
       </erpsv2-clear-ring-erp-instance>
```

Command Syntax

```
    clear g8032 erp-instance (INSTANCENAME|all)
```

clear g8032 aps-statistics INSTANCENAME

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-255

Netconf RPC payload

```
       <erpsv2-clear-aps-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
erpsv2">
       <instance-name>INSTANCENAME</instance-name>
       </erpsv2-clear-aps-statistics>
```

Command Syntax

```
    clear g8032 aps-statistics INSTANCENAME
```

debug g8032 (all|tx|rx|fsm|timers|events|external|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|tx|rx|fsm|timers|events|external|hal)

Netconf RPC payload

```
       <erpsv2-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
erpsv2">
       <terminal-debug-options>all</terminal-debug-options>
       </erpsv2-terminal-debug-on>
```

Command Syntax

```
    debug g8032 (all|tx|rx|fsm|timers|events|external|hal)
```

no debug g8032 (all|tx|rx|fsm|timers|events|external|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|tx|rx|fsm|timers|events|external|hal)

Netconf RPC payload

```
       <erpsv2-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
erpsv2">
       <terminal-debug-options>all</terminal-debug-options>
       </erpsv2-terminal-debug-off>
```

Command Syntax

```
    no debug g8032 (all|tx|rx|fsm|timers|events|external|hal)
```

IPI-G8031

Configure working port

port for the working EPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: working-port

Attribute Type: string

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
<instance>
   <eps-id>1</eps-id>
   <config>
      <eps-id>1</eps-id>
   </config>
   <working-port>IFNAME</working-port> <!-- operation="delete"-->
</instance>
</instances>
</g8031>
```

Command Syntax

```
 working-port IFNAME
```

Configure protection port

port for the protection EPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: protection-port

Attribute Type: string

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
<instance>
   <eps-id>1</eps-id>
   <config>
      <eps-id>1</eps-id>
   </config>
   <protection-port>IFNAME</protection-port> <!-- operation="delete"-->
</instance>
</instances>
</g8031>
```

Command Syntax

```
 protection-port IFNAME
```

Configure elps instance id

MSTP Instance Identifier

This command is supported when following feature are enabled ELPS feature

Attribute Name: elps-instance-id

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
<instance>
   <eps-id>1</eps-id>
   <config>
      <eps-id>1</eps-id>
   </config>
   <elps-instance-id>1</elps-instance-id> <!-- operation="delete"-->
</instance>
</instances>
</g8031>
```

Command Syntax

```
 instance <1-63>
```

Configure data vlans

VLAN Identifier

This command is supported when following feature are enabled ELPS feature

Attribute Name: data-vlans

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
<instance>
   <eps-id>1</eps-id>
   <config>
      <eps-id>1</eps-id>
   </config>
   <data-vlans>VLAN_RANGE</data-vlans> <!-- operation="delete"-->
</instance>
</instances>
</g8031>
```

Command Syntax

```
 vlan VLAN_RANGE
```

Configure primary vlan

Indicates if the given VLAN is primary VLAN of protection group

This command is supported when following feature are enabled ELPS feature

Attribute Name: primary-vlan

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
<instance>
   <eps-id>1</eps-id>
   <config>
      <eps-id>1</eps-id>
   </config>
   <primary-vlan>2</primary-vlan> <!-- operation="delete"-->
</instance>
</instances>
</g8031>
```

Command Syntax

```
 primary-vlan <2-4094>
```

IPI-G8031-ELPS

Configure wait to restore

EPS wait-to-restore timer

Attribute Name: wait-to-restore

Attribute Type: uint16

Attribute Range: 300-720

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
   <instance>
      <eps-id>1</eps-id>
      <config>
         <eps-id>1</eps-id>
      </config>
      <elps>
      <timers>
      <config>
             <wait-to-restore>300</wait-to-restore> <!-- operation="delete"-->
      </config>
   </timers>
</elps>
</instance>
</instances>
</g8031>
```

Command Syntax

```
timer wait-to-restore <300-720>
```

Configure hold off

EPS hold-off timer

Attribute Name: hold-off

Attribute Type: uint8

Attribute Range: 0-10

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
   <instance>
      <eps-id>1</eps-id>
      <config>
         <eps-id>1</eps-id>
      </config>
      <elps>
      <timers>
      <config>
            <hold-off>0</hold-off> <!-- operation="delete"-->
      </config>
   </timers>
</elps>
</instance>
</instances>
</g8031>
```

Command Syntax

```
timer hold-off-time <0-10>
```

Configure local freeze

Freezes the state of the protection group.

Attribute Name: local-freeze

Attribute Type: empty

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
   <instance>
      <eps-id>1</eps-id>
      <config>
         <eps-id>1</eps-id>
      </config>
      <elps>
```

```
          <traffic-switch>
          <config>
                 </local-freeze><!-- operation="delete"-->
          </config>
       </traffic-switch>
   </elps>
   </instance>
   </instances>
   </g8031>
```

Command Syntax

```
    local-freeze
```

Configure protection type

protection bridge mode

Attribute Name: protection-type

Attribute Type: enum (one-plus-one-bidirectional|one-plus-one-unidirectional|one-and-one-bidirectional)

Netconf edit-config payload

```
   <g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
   <instances>
      <instance>
         <eps-id>1</eps-id>
         <config>
            <eps-id>1</eps-id>
         </config>
         <elps>
         <config>
                <protection-type>one-plus-one-bidirectional</protection-type> <!--
operation="delete"-->
         </config>
      </elps>
   </instance>
   </instances>
   </g8031>
```

Command Syntax

```
    mode (one-plus-one-bidirectional|one-plus-one-unidirectional|one-and-one-
      bidirectional)
```

Configure enable revertive mode

protection restoration mode

Attribute Name: enable-revertive-mode

Attribute Type: empty

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
   <instance>
      <eps-id>1</eps-id>
      <config>
         <eps-id>1</eps-id>
      </config>
      <elps>
      <config>
             </enable-revertive-mode><!-- operation="delete"-->
      </config>
   </elps>
</instance>
</instances>
</g8031>
```

Command Syntax

```
 revertive
```

Configure level identifier

Ethernet Linear Protection switching level

Attribute Name: level-identifier

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<instances>
   <instance>
      <eps-id>1</eps-id>
      <config>
         <eps-id>1</eps-id>
      </config>
      <elps>
      <config>
             <level-identifier>0</level-identifier> <!-- operation="delete"-->
      </config>
   </elps>
</instance>
</instances>
</g8031>
```

Command Syntax

```
 level <0-7>
```

Configure name

G.8031 profile name

This command is supported when following feature are enabled ELPS feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<profiles>
<profile> <!-- operation="delete"-->
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
</profile>
</profiles>
</g8031-elps>
</g8031>
```

Command Syntax

```
 g8031 profile WORD
```

Configure mode

G.8031 mode

This command is supported when following feature are enabled ELPS feature

Attribute Name: mode

Attribute Type: enum (one-and-one-bidirectional|one-plus-one-bidirectional|one-plus-one-unidirectional)

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<profiles>
<profile>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <mode>one-and-one-bidirectional</mode> <!-- operation="delete"-->
</profile>
</profiles>
</g8031-elps>
</g8031>
```

Command Syntax

```
mode (one-and-one-bidirectional|one-plus-one-bidirectional|one-plus-one-
  unidirectional)
```

Configure switching mode

Use this attribute to set/unset switching mode

This command is supported when following feature are enabled ELPS feature

Attribute Name: switching-mode

Attribute Type: enum (non-revertive|revertive)

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<profiles>
<profile>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
      <switching-mode>non-revertive</switching-mode> <!-- operation="delete"-->
</profile>
</profiles>
</g8031-elps>
</g8031>
```

Command Syntax

```
switching mode (non-revertive|revertive)
```

Configure timer hold off

The hold-off timer is used to coordinate the timing of protection switches

This command is supported when following feature are enabled ELPS feature

Attribute Name: timer-hold-off

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<profiles>
<profile>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
```

```
        <timer-hold-off>1</timer-hold-off> <!-- operation="delete"-->
    </profile>
    </profiles>
    </g8031-elps>
    </g8031>
```

Command Syntax

```
 timer hold-off <1-10>
```

Configure timer wait to restore

Use this attribute to set/unset the timer wait to restore

This command is supported when following feature are enabled ELPS feature

Attribute Name: timer-wait-to-restore

Attribute Type: uint32

Attribute Range: 300-720

Netconf edit-config payload

```
    <g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
    <g8031-elps>
    <profiles>
    <profile>
       <name>WORD</name>
       <config>
          <name>WORD</name>
       </config>
          <timer-wait-to-restore>300</timer-wait-to-restore> <!-- operation="delete"-->
    </profile>
    </profiles>
    </g8031-elps>
    </g8031>
```

Command Syntax

```
 timer wait-to-restore <300-720>
```

Configure group name

G.8031 ELPS protection group name

This command is supported when following feature are enabled ELPS feature

Attribute Name: group-name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
    <g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
    <g8031-elps>
```

```
<protections>
<protection> <!-- operation="delete"-->
   <group-name>WORD</group-name>
   <config>
      <group-name>WORD</group-name>
   </config>
</protection>
</protections>
</g8031-elps>
</g8031>
```

Command Syntax

```
g8031 eps-protection group WORD
```

Configure working port

Port for working ELPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: working-port

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<protections>
<protection>
   <group-name>WORD</group-name>
   <config>
      <group-name>WORD</group-name>
   </config>
      <working-port>IFNAME</working-port> <!-- operation="delete"-->
</protection>
</protections>
</g8031-elps>
</g8031>
```

Command Syntax

```
working-port IFNAME
```

Configure protection port

Port for the protection ELPS path

This command is supported when following feature are enabled ELPS feature

Attribute Name: protection-port

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<protections>
<protection>
   <group-name>WORD</group-name>
   <config>
      <group-name>WORD</group-name>
   </config>
      <protection-port>IFNAME</protection-port> <!-- operation="delete"-->
</protection>
</protections>
</g8031-elps>
</g8031>
```

Command Syntax

```
protection-port IFNAME
```

Configure eps-instances name

Instance name to identify the EPS protection group

Attribute Name: name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<eps-instances>
<eps-instance> <!-- operation="delete"-->
   <name>INSTANCE-NAME</name>
   <config>
      <name>WORD</name>
   </config>
</eps-instance>
</eps-instances>
</g8031-elps>
</g8031>
```

Command Syntax

```
g8031 eps-instance INSTANCE-NAME
```

Configure eps protection group

Group name for protection EPS

Attribute Name: eps-protection-group

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<eps-instances>
<eps-instance>
   <name>INSTANCE-NAME</name>
   <config>
      <name>WORD</name>
   </config>
      <eps-protection-group>WORD</eps-protection-group> <!-- operation="delete"-->
</eps-instance>
</eps-instances>
</g8031-elps>
</g8031>
```

Command Syntax

```
eps-protection-group WORD
```

Configure g8031 profile name

G8031 profile name

Attribute Name: g8031-profile-name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<eps-instances>
<eps-instance>
   <name>INSTANCE-NAME</name>
   <config>
      <name>WORD</name>
   </config>
      <g8031-profile-name>WORD</g8031-profile-name> <!-- operation="delete"-->
</eps-instance>
</eps-instances>
</g8031-elps>
</g8031>
```

Command Syntax

```
g8031-profile WORD
```

Configure level

APS level value.

Attribute Name: level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<eps-instances>
<eps-instance>
   <name>INSTANCE-NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <aps-channel>
   <config>
         <level>0</level> <!-- operation="delete"-->
   </config>
</aps-channel>
</eps-instance>
</eps-instances>
</g8031-elps>
</g8031>
```

Command Syntax

```
 aps-channel level <0-7>
```

Configure inner vlan id

Control inner VLAN-ID used by ELPS instance to send and receive the RAPS messages

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<g8031-elps>
<eps-instances>
<eps-instance>
   <name>INSTANCE-NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <control-vlans>
   <control-vlan>
```

```
        <vlan-id>2</vlan-id>
        <config>
           <vlan-id>2</vlan-id>
        </config>
           <inner-vlan-id>2</inner-vlan-id>
     </control-vlan>
  </control-vlans>
  </eps-instance>
  </eps-instances>
  </g8031-elps>
  </g8031>
```

Command Syntax

```
control vlan <2-4094> (inner-vlan <2-4094>|)
```

Configure data vlan

List of VLAN-IDs, protected by ring instance. For example ’2, 3-7, 9, 10-100’ VLAN-IDs MUST not overlap with VLAN-IDs of any other instance of the same ring.

Attribute Name: data-vlan

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
  <g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
  <g8031-elps>
  <eps-instances>
  <eps-instance>
     <name>INSTANCE-NAME</name>
     <config>
        <name>WORD</name>
     </config>
     <data>
     <config>
           <data-vlan>VLAN_RANGE</data-vlan> <!-- operation="delete"-->
     </config>
  </data>
  </eps-instance>
  </eps-instances>
  </g8031-elps>
  </g8031>
```

Command Syntax

```
data vlan VLAN_RANGE
```

Configure options

Supported debug options for g8031

Attribute Name: options

Attribute Type: bits (all|rx|tx|fsm|events|hal)

Netconf edit-config payload

```
<g8031 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-g8031">
<debug>
<config>
       <options>all</options> <!-- operation="delete"-->
</config>
</debug>
</g8031>
```

Command Syntax

```
debug g8031 (all|rx|tx|fsm|events|hal)
```

lockout g8031 eps-instance INSTANCENAME

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Netconf RPC payload

```
       <ipi-g8031-elps_g8031-lockout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
g8031">
       <instance-name>INSTANCENAME</instance-name>
       </ipi-g8031-elps_g8031-lockout>
```

Command Syntax

```
lockout g8031 eps-instance INSTANCENAME
```

exercise g8031 eps-instance INSTANCENAME

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Netconf RPC payload

```
       <ipi-g8031-elps_g8031-exercise xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
g8031">
       <instance-name>INSTANCENAME</instance-name>
       </ipi-g8031-elps_g8031-exercise>
```

Command Syntax

```
exercise g8031 eps-instance INSTANCENAME
```

debug g8031 (all|rx|tx|fsm|events|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|rx|tx|fsm|events|hal)

Netconf RPC payload

```
       <ipi-g8031-elps_g8031-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-g8031">
       <terminal-debug-options>all</terminal-debug-options>
       </ipi-g8031-elps_g8031-terminal-debug-on>
```

Command Syntax

```
    debug g8031 (all|rx|tx|fsm|events|hal)
```

no debug g8031 (all|rx|tx|fsm|events|hal)

Attribute Name: terminal-debug-options

Attribute Type: bits (all|rx|tx|fsm|events|hal)

Netconf RPC payload

```
       <ipi-g8031-elps_g8031-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-g8031">
       <terminal-debug-options>all</terminal-debug-options>
       </ipi-g8031-elps_g8031-terminal-debug-off>
```

Command Syntax

```
    no debug g8031 (all|rx|tx|fsm|events|hal)
```

g8031 eps-instance (INSTANCENAME|all) (local-freeze|local-lockout|force-switch|manual-switch-working|manual-switch-protection|lockout|exercise)

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Attribute Name: operation

Attribute Type: enum (local-freeze|local-lockout|force-switch|manual-switch-working|manual-switch-protection|lockout|exercise)

Netconf RPC payload

```
       <ipi-g8031-elps_elps-switch-elp-instance xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-g8031">
       <instance-name>INSTANCENAME</instance-name>
       <operation>local-freeze</operation>
       </ipi-g8031-elps_elps-switch-elp-instance>
```

Command Syntax

```
g8031 eps-instance (INSTANCENAME|all) (local-freeze|local-lockout|force-
  switch|manual-switch-working|manual-switch-protection|lockout|exercise)
```

clear g8031 eps-instance (INSTANCENAME|all) ((local-freeze|local-lockout)|)

Attribute Name: instance-name

Attribute Type: string

Attribute Range: 1-100

Attribute Name: eps-type

Attribute Type: enum (local-freeze|local-lockout)

Netconf RPC payload

```
      <ipi-g8031-elps_eps-clear-ring-instance xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-g8031">
      <instance-name>INSTANCENAME</instance-name>
      <eps-type>local-freeze</eps-type>
      </ipi-g8031-elps_eps-clear-ring-instance>
```

Command Syntax

```
clear g8031 eps-instance (INSTANCENAME|all) ((local-freeze|local-lockout)|)
```

IPI-CFM

Configure cache enable

This attribute specifies the cache enable

This command is supported when following feature are enabled CFM feature

Attribute Name: cache-enable

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<global>
<linktrace>
<cache>
<config>
   </cache-enable>
</config>
</cache>
</linktrace>
</global>
</cfm>
```

Command Syntax

```
ethernet cfm traceroute cache
```

Configure cache size

This attribute specifies the cache size

This command is supported when following feature are enabled CFM feature

Attribute Name: cache-size

Attribute Type: uint16

Default Value: 100

Attribute Range: 1-4095

Attribute Name: cache-enable

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<global>
<linktrace>
<cache>
<config>
   </cache-enable><!-- operation="delete"-->
   <cache-size>1</cache-size> <!-- operation="delete"-->
</config>
</cache>
</linktrace>
</global>
</cfm>
```

Command Syntax

```
ethernet cfm traceroute cache size <1-4095>
```

Configure options

This attribute enables debugging for CFM

This command is supported when following feature are enabled CFM feature

Attribute Name: options

Attribute Type: bits (events|rx|tx|loopback|traceroute|all|pathtrace)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<debug>
<config>
   <options>events</options> <!-- operation="delete"-->
</config>
</debug>
```

```
</cfm>
```

Command Syntax

```
debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)
```

Configure type

Type discriminator for the value union described in the ’md-name’ leaf

This command is supported when following feature are enabled CFM feature

Attribute Name: type

Attribute Type: enum (no-name|character-string)

Attribute Name: level

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: mip-creation

Attribute Type: enum (none|default|explicit|static)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
      <level>0</level>
      <mip-creation>none</mip-creation>
   </config>
   <type>no-name</type>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm domain-type (no-name|character-string) domain-name DOMAIN_NAME level
  <0-7> (mip-creation (none|default|explicit|static)|)
```

Configure ma name

The value union for the Maintenance Association Name.

This command is supported when following feature are enabled CFM feature

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: type

Attribute Type: enum (string|integer|itu-t)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association> <!-- operation="delete"-->
   <ma-name>MA_NAME</ma-name>
   <config>
      <ma-name>MA_NAME</ma-name>
      <type>string</type>
   </config>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
 service ma-type (string|integer|itu-t) ma-name MA_NAME
```

Configure enable rmep auto discovery

This attribute tells whether remote MEPs can be learnt from the peer

This command is supported when following feature are enabled CFM feature

Attribute Name: enable-rmep-auto-discovery

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association>
   <ma-name>MA_NAME</ma-name>
   <config>
      <ma-name>MA_NAME</ma-name>
   </config>
      </enable-rmep-auto-discovery><!-- operation="delete"-->
</maintenance-association>
```

```
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
rmep auto-discovery enable
```

Configure bridge id

This parameter indicates which bridge this maintenance association will be augumented to.

This command is supported when following feature are enabled CFM feature

Attribute Name: bridge-id

Attribute Type: string

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association>
   <ma-name>MA_NAME</ma-name>
   <config>
      <ma-name>MA_NAME</ma-name>
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
   </config>
      <bridge-id>1</bridge-id> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
vlan <1-4095> (bridge <1-32>|)
```

Configure md name

This parameter indicates which bridge this maintenance association will be augumented to.

This command is supported when following feature are enabled CFM feature

Attribute Name: bridge-id

Attribute Type: string

Attribute Name: link-level-ma

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
        </link-level-ma><!-- operation="delete"-->
    </config>
        <bridge-id>1</bridge-id> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
 link-level (bridge <1-32>|)
```

Configure mip creation

This parameter indicates whether the management entity can create MIPs for this MA

This command is supported when following feature are enabled CFM feature

Attribute Name: mip-creation

Attribute Type: enum (none|default|explicit|defer)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
```

```
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
        <mip-creation>none</mip-creation> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
(mip-creation (none|default|explicit|defer)|)
```

Configure inner vlan id

The inner VLAN ID monitored by this MA

This command is supported when following feature are enabled CFM feature

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
    </config>
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
vlan <1-4095> (inner-vlan <1-4095>|)
```

Configure link level ma

Use this attribute to set the Service as Link Level MA

This command is supported when following feature are enabled CFM feature

Attribute Name: link-level-ma

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association>
   <ma-name>MA_NAME</ma-name>
   <config>
      <ma-name>MA_NAME</ma-name>
   </config>
      </link-level-ma><!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
link-level
```

Configure mip interface name

A list of static MIPs configured on the specified interfaces

This command is supported when following feature are enabled CFM feature

Attribute Name: mip-interface-name

Attribute Type: string

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
```

```
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
        <mip-interface-name>IFNAME</mip-interface-name> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mip interface IFNAME
```

Configure evpn id

Use this attribute to set the Service as EVPN MA

This command is supported when following feature are enabled CFM feature

Attribute Name: evpn-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
        <evpn-id>1</evpn-id> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
evpn <1-16777215>
```

Configure vpws vc name

This attribute uniquely identifies a VPWS circuit

This command is supported when following feature are enabled CFM feature

Attribute Name: vpws-vc-name

Attribute Type: string

Attribute Range: 1-30

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association>
   <ma-name>MA_NAME</ma-name>
   <config>
      <ma-name>MA_NAME</ma-name>
   </config>
      <vpws-vc-name>VCNAME</vpws-vc-name> <!-- operation="delete"-->
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
vpws VCNAME
```

Configure ccm interval

The interval between CCM transmissions to be used by all MEPs in the MA

This command is supported when following feature are enabled CFM feature

Attribute Name: ccm-interval

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
```

```
       <md-name>DOMAIN_NAME</md-name>
       <config>
          <md-name>DOMAIN_NAME</md-name>
       </config>
   <maintenance-associations>
   <maintenance-association>
       <ma-name>MA_NAME</ma-name>
       <config>
          <ma-name>MA_NAME</ma-name>
       </config>
          <ccm-interval>3ms</ccm-interval> <!-- operation="delete"-->
   </maintenance-association>
   </maintenance-associations>
   </maintenance-domain>
   </maintenance-domains>
   </cfm>
```

Command Syntax

```
 cc interval (3ms|10ms|100ms|1s|10s|1min|10min)
```

Configure static rmep identifiers

A list of static remote MEPs in a specified MA.

This command is supported when following feature are enabled CFM feature

Attribute Name: static-rmep-identifiers

Attribute Type: uint16

Attribute Range: 1-8191

Netconf edit-config payload

```
   <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
   <maintenance-domains>
   <maintenance-domain>
       <md-name>DOMAIN_NAME</md-name>
       <config>
          <md-name>DOMAIN_NAME</md-name>
       </config>
   <maintenance-associations>
   <maintenance-association>
       <ma-name>MA_NAME</ma-name>
       <config>
          <ma-name>MA_NAME</ma-name>
       </config>
          <static-rmep-identifiers>1</static-rmep-identifiers> <!-- operation="delete"-
->
   </maintenance-association>
   </maintenance-associations>
   </maintenance-domain>
   </maintenance-domains>
   </cfm>
```

Command Syntax

```
mep crosscheck mpid <1-8191>
```

Configure mep id

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point> <!-- operation="delete"-->
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
            <direction>down</direction>
            <administrative-state>false</administrative-state>
            <interface-name>IFNAME</interface-name>
        </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
```

```
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) IFNAME
```

Configure direction

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mep-outer-vlan

Attribute Type: uint16

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association>
   <ma-name>MA_NAME</ma-name>
   <config>
      <ma-name>MA_NAME</ma-name>
   </config>
   <maintenance-end-points>
   <maintenance-end-point> <!-- operation="delete"-->
      <mep-id>1</mep-id>
      <config>
         <mep-id>1</mep-id>
         <direction>down</direction>
         <administrative-state>false</administrative-state>
         <interface-name>IFNAME</interface-name>
```

```
            <mep-outer-vlan>1</mep-outer-vlan>
        </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) IFNAME vlan <1-4094>
```

Configure administrative state

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: interface-name

Attribute Type: string

Attribute Name: mep-outer-vlan

Attribute Type: uint16

Attribute Name: mep-inner-vlan

Attribute Type: uint16

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
```

```
    </config>
    <maintenance-end-points>
    <maintenance-end-point> <!-- operation="delete"-->
       <mep-id>1</mep-id>
       <config>
          <mep-id>1</mep-id>
          <direction>down</direction>
          <administrative-state>false</administrative-state>
          <interface-name>IFNAME</interface-name>
          <mep-outer-vlan>1</mep-outer-vlan>
          <mep-inner-vlan>1</mep-inner-vlan>
       </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) IFNAME vlan <1-4094>
  inner-vlan <1-4094>
```

Configure remote vpws vc name

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-vpws-vc-name

Attribute Type: string

Attribute Range: 1-30

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
   <md-name>DOMAIN_NAME</md-name>
   <config>
```

```
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point> <!-- operation="delete"-->
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
            <direction>down</direction>
            <administrative-state>false</administrative-state>
            <remote-vpws-vc-name>VCNAME</remote-vpws-vc-name>
        </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) vpws VCNAME
```

Configure remote evpn id

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-evpn-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
```

```
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point> <!-- operation="delete"-->
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
            <direction>down</direction>
            <administrative-state>false</administrative-state>
            <remote-evpn-id>1</remote-evpn-id>
        </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) evpn <1-16777215>
```

Configure maintenance-end-points mep-id

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-evpn-id

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point> <!-- operation="delete"-->
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
            <direction>down</direction>
            <administrative-state>false</administrative-state>
            <remote-evpn-id>1</remote-evpn-id>
        </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) evpn <1-16777215>
```

Configure remote vtep ip

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: direction

Attribute Type: enum (down|up)

Attribute Name: administrative-state

Attribute Type: enum (false|true)

Attribute Name: remote-vtep-ip

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point> <!-- operation="delete"-->
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
            <direction>down</direction>
            <administrative-state>false</administrative-state>
            <remote-vtep-ip>A.B.C.D</remote-vtep-ip>
        </config>
    </maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) remote-vtep A.B.C.D
```

Configure bw mapped interface

This attribute specifies interface where the bandwidth shapers are to be applied

This command is supported when following feature are enabled CFM feature

Attribute Name: bw-mapped-interface

Attribute Type: string

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
```

```
    <maintenance-domain>
        <md-name>DOMAIN_NAME</md-name>
        <config>
            <md-name>DOMAIN_NAME</md-name>
        </config>
    <maintenance-associations>
    <maintenance-association>
        <ma-name>MA_NAME</ma-name>
        <config>
            <ma-name>MA_NAME</ma-name>
        </config>
        <maintenance-end-points>
        <maintenance-end-point>
            <mep-id>1</mep-id>
            <config>
                <mep-id>1</mep-id>
            </config>
                <bw-mapped-interface>IFNAME</bw-mapped-interface> <!--
operation="delete"-->
        </maintenance-end-point>
    </maintenance-end-points>
    </maintenance-association>
    </maintenance-associations>
    </maintenance-domain>
    </maintenance-domains>
    </cfm>
```

Command Syntax

```
 bw-mapped-interface IFNAME
```

Configure enable cc multicast

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: enable-cc-multicast

Attribute Type: empty

Netconf edit-config payload

```
    <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
    <maintenance-domains>
    <maintenance-domain>
        <md-name>DOMAIN_NAME</md-name>
        <config>
            <md-name>DOMAIN_NAME</md-name>
        </config>
```

```
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point>
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
        </config>
        <continuity-check>
        <config>
            </enable-cc-multicast>
        </config>
    </continuity-check>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
 cc multicast state enable
```

Configure mep rmep auto discovery

Integer that is unique among all the MEPs in the same MA. Other definition is: a small integer, unique over a given Maintenance Association, identifying a specific Maintenance association End Point

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: mep-rmep-auto-discovery

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
```

```
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
    </config>
    <maintenance-end-points>
    <maintenance-end-point>
        <mep-id>1</mep-id>
        <config>
            <mep-id>1</mep-id>
        </config>
        <continuity-check>
        <config>
            </mep-rmep-auto-discovery>
        </config>
    </continuity-check>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
rmep auto-discovery enable
```

Configure lowest fault priority defect

The lowest priority defect that is allowed to generate a Fault Alarm. The non-existence of this leaf means that no defects are to be reported

This command is supported when following feature are enabled CFM feature

Attribute Name: lowest-fault-priority-defect

Attribute Type: enum (defRDICCM|defMACstatus|defRemoteCCM|defErrorCCM|defXconCCM)

Default Value: defMACstatus

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain>
    <md-name>DOMAIN_NAME</md-name>
    <config>
        <md-name>DOMAIN_NAME</md-name>
    </config>
<maintenance-associations>
<maintenance-association>
    <ma-name>MA_NAME</ma-name>
    <config>
        <ma-name>MA_NAME</ma-name>
```

```
       </config>
       <maintenance-end-points>
       <maintenance-end-point>
          <mep-id>1</mep-id>
          <config>
             <mep-id>1</mep-id>
          </config>
          <continuity-check>
          <config>
                <lowest-fault-priority-defect>defMACstatus</lowest-fault-priority-
defect> <!-- operation="delete"-->
          </config>
       </continuity-check>
   </maintenance-end-point>
   </maintenance-end-points>
   </maintenance-association>
   </maintenance-associations>
   </maintenance-domain>
   </maintenance-domains>
   </cfm>
```

Command Syntax

```
    mep lowest-priority-defect
      (defRDICCM|defMACstatus|defRemoteCCM|defErrorCCM|defXconCCM)
```

Configure mep rmep cross check

A list of static remote MEPs in a specified MA.

This command is supported when following feature are enabled CFM feature

Attribute Name: mep-rmep-cross-check

Attribute Type: uint16

Attribute Range: 1-8191

Netconf edit-config payload

```
   <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
   <maintenance-domains>
   <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
         <md-name>DOMAIN_NAME</md-name>
      </config>
   <maintenance-associations>
   <maintenance-association>
      <ma-name>MA_NAME</ma-name>
      <config>
         <ma-name>MA_NAME</ma-name>
      </config>
      <maintenance-end-points>
      <maintenance-end-point>
```

```
          <mep-id>1</mep-id>
          <config>
             <mep-id>1</mep-id>
          </config>
          <continuity-check>
          <config>
                <mep-rmep-cross-check>1</mep-rmep-cross-check> <!--
operation="delete"-->
          </config>
       </continuity-check>
    </maintenance-end-point>
    </maintenance-end-points>
    </maintenance-association>
    </maintenance-associations>
    </maintenance-domain>
    </maintenance-domains>
    </cfm>
```

Command Syntax

```
mep crosscheck mpid <1-8191>
```

clear ethernet cfm maintenance-points remote domain DOMAIN_NAME

Attribute Name: domain-name

Attribute Type: string

Netconf RPC payload

```
       <cfm-l2-clear-ethernet-remote-meps xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-cfm">
       <domain-name>DOMAIN_NAME</domain-name>
       </cfm-l2-clear-ethernet-remote-meps>
```

Command Syntax

```
clear ethernet cfm maintenance-points remote domain DOMAIN_NAME
```

clear ethernet cfm statistics

Netconf RPC payload

```
       <cfm-clear-all-mep-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm"/>
```

Command Syntax

```
clear ethernet cfm statistics
```

clear ethernet cfm statistics mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: domain-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<cfm-l2-clear-mep-stats xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<mep-id>1</mep-id>
<domain-name>DOMAIN_NAME</domain-name>
<ma-name>MA_NAME</ma-name>
</cfm-l2-clear-mep-stats>
```

Command Syntax

```
clear ethernet cfm statistics mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

cfm snmp restart

Netconf RPC payload

```
<cfm-snmp-restart xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm"/>
```

Command Syntax

```
cfm snmp restart
```

debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|rx|tx|loopback|traceroute|all|pathtrace)

Netconf RPC payload

```
<cfm-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<terminal-debug-options>events</terminal-debug-options>
</cfm-terminal-debug-on>
```

Command Syntax

```
debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)
```

no debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|rx|tx|loopback|traceroute|all|pathtrace)

Netconf RPC payload

```
<cfm-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<terminal-debug-options>events</terminal-debug-options>
```

```
      </cfm-terminal-debug-off>
```

Command Syntax

```
    no debug ethernet cfm (events|rx|tx|loopback|traceroute|all|pathtrace)
```

clear ethernet cfm traceroute-cache

Netconf RPC payload

```
      <cfm-l2-clear-linktrace-cache xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm"/>
```

Command Syntax

```
    clear ethernet cfm traceroute-cache
```

IPI-CFM-VXLAN-OAM

Configure mode

Use this attribute to set the VxLAN OAM mode of operation

Attribute Name: mode

Attribute Type: enum (leaf|spine)

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
   <global>
      <nvo3-oam>
      <config>
             </enable><!-- operation="delete"-->
             <mode>1</mode> <!-- operation="delete"-->
      </config>
   </nvo3-oam>
   </global>
   </cfm>
```

Command Syntax

```
    nvo vxlan-oam
```

Configure enable

Use this attribute to set the VxLAN OAM mode of operation

Attribute Name: mode

Attribute Type: enum (leaf|spine)

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<global>
   <nvo3-oam>
   <config>
          </enable><!-- operation="delete"-->
          <mode>leaf</mode> <!-- operation="delete"-->
   </config>
</nvo3-oam>
</global>
</cfm>
```

Command Syntax

```
 nvo vxlan-oam (spine)
```

IPI-CFM-Y1731

Configure enable receive

A unique identifier of a Maintenance Domain

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: md-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: enable-receive

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain> <!-- operation="delete"-->
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association>
   <ma-name>MA_NAME</ma-name>
```

```
    <maintenance-end-points>
    <maintenance-end-point>
        <mep-id>1</mep-id>
        <ethernet-bandwidth-notification>
        <config>
            </enable-receive>
        </config>
    </ethernet-bandwidth-notification>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
bn receive
```

Configure wait to restore timer

This attribute sets the time to wait before nominal bandwidth is set

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: wait-to-restore-timer

Attribute Type: uint32

Default Value: 10

Attribute Range: 0-86400

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
    <maintenance-domain>
        <md-name>DOMAIN_NAME</md-name>
        <config>
            <md-name>DOMAIN_NAME</md-name>
        </config>
        <maintenance-associations>
            <maintenance-association>
                <ma-name>MA_NAME</ma-name>
                <config>
                    <ma-name>MA_NAME</ma-name>
                </config>
                <maintenance-end-points>
                    <maintenance-end-point>
                        <mep-id>1</mep-id>
                        <config>
                            <mep-id>1</mep-id>
                        </config>
```

```
                        <ethernet-bandwidth-notification>
                        <config>
                              <wait-to-restore-timer>0</wait-to-restore-timer> <!--
operation="delete"-->
                        </config>
                     </ethernet-bandwidth-notification>
                  </maintenance-end-point>
               </maintenance-end-points>
            </maintenance-association>
         </maintenance-associations>
      </maintenance-domain>
      </maintenance-domains>
      </cfm>
```

Command Syntax

```
    wait-to-restore-timer <0-86400>
```

Configure peer port id

This attribute sets the peer port id used to map the received ETH-BN frame

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: peer-port-id

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
   <maintenance-domains>
      <maintenance-domain>
         <md-name>DOMAIN_NAME</md-name>
         <config>
            <md-name>DOMAIN_NAME</md-name>
         </config>
         <maintenance-associations>
            <maintenance-association>
               <ma-name>MA_NAME</ma-name>
               <config>
                  <ma-name>MA_NAME</ma-name>
               </config>
               <maintenance-end-points>
                  <maintenance-end-point>
                     <mep-id>1</mep-id>
                     <config>
                        <mep-id>1</mep-id>
                     </config>
                     <ethernet-bandwidth-notification>
                     <config>
                           <peer-port-id>1</peer-port-id> <!-- operation="delete"-->
                     </config>
```

```
                </ethernet-bandwidth-notification>
             </maintenance-end-point>
          </maintenance-end-points>
       </maintenance-association>
    </maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
 peer-port-id <1-4294967295>
```

Configure adaptive bandwidth disable

This attribute will disbale the adaptive bandwidth

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: adaptive-bandwidth-disable

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
   <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
         <md-name>DOMAIN_NAME</md-name>
      </config>
      <maintenance-associations>
         <maintenance-association>
            <ma-name>MA_NAME</ma-name>
            <config>
               <ma-name>MA_NAME</ma-name>
            </config>
            <maintenance-end-points>
               <maintenance-end-point>
                  <mep-id>1</mep-id>
                  <config>
                     <mep-id>1</mep-id>
                  </config>
                  <ethernet-bandwidth-notification>
                  <config>
                        </adaptive-bandwidth-disable><!-- operation="delete"-->
                  </config>
               </ethernet-bandwidth-notification>
            </maintenance-end-point>
         </maintenance-end-points>
      </maintenance-association>
   </maintenance-associations>
</maintenance-domain>
```

```
</maintenance-domains>
</cfm>
```

Command Syntax

```
adaptive bandwidth disable
```

Configure maintenance-domains md-name

A unique identifier of a Maintenance Domain

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: md-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Name: mep-id

Attribute Type: uint16

Attribute Name: enable-receive

Attribute Type: uint8

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
<maintenance-domain> <!-- operation="delete"-->
   <md-name>DOMAIN_NAME</md-name>
   <config>
      <md-name>DOMAIN_NAME</md-name>
   </config>
<maintenance-associations>
<maintenance-association>
   <ma-name>MA_NAME</ma-name>
   <maintenance-end-points>
   <maintenance-end-point>
      <mep-id>1</mep-id>
      <ethernet-client-signal-fail>
      <config>
         </enable-receive>
      </config>
   </ethernet-client-signal-fail>
</maintenance-end-point>
</maintenance-end-points>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
csf receive
```

Configure md name

This attribute sets the time to wait before nominal bandwidth is set

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: wait-to-restore-timer

Attribute Type: uint32

Default Value: 10

Attribute Range: 0-86400

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
   <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
         <md-name>DOMAIN_NAME</md-name>
      </config>
      <maintenance-associations>
         <maintenance-association>
            <ma-name>MA_NAME</ma-name>
            <config>
               <ma-name>MA_NAME</ma-name>
            </config>
            <maintenance-end-points>
               <maintenance-end-point>
                  <mep-id>1</mep-id>
                  <config>
                     <mep-id>1</mep-id>
                  </config>
                  <ethernet-client-signal-fail>
                  <config>
                        <wait-to-restore-timer>0</wait-to-restore-timer> <!--
operation="delete"-->
                  </config>
               </ethernet-client-signal-fail>
            </maintenance-end-point>
         </maintenance-end-points>
      </maintenance-association>
   </maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
wait-to-restore-timer <0-86400>
```

Configure lock state

This attribute specifies the locking state

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: lock-state

Attribute Type: enum (unlock|lock)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
   <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
         <md-name>DOMAIN_NAME</md-name>
      </config>
      <maintenance-associations>
         <maintenance-association>
            <ma-name>MA_NAME</ma-name>
            <config>
               <ma-name>MA_NAME</ma-name>
            </config>
            <maintenance-end-points>
               <maintenance-end-point>
                  <mep-id>1</mep-id>
                  <config>
                     <mep-id>1</mep-id>
                  </config>
                  <ethernet-locked-signal>
                  <config>
                        <lock-state>unlock</lock-state>
                  </config>
               </ethernet-locked-signal>
            </maintenance-end-point>
         </maintenance-end-points>
      </maintenance-association>
   </maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
 lck state (unlock|lock)
```

Configure client md level

The Maintenance Domain Level of the Client LCK PDU (transmitted level)

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: client-md-level

Attribute Type: uint8

Default Value: 0

Attribute Range: 0-7

Netconf edit-config payload

```
   <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
   <maintenance-domains>
      <maintenance-domain>
         <md-name>DOMAIN_NAME</md-name>
         <config>
            <md-name>DOMAIN_NAME</md-name>
         </config>
         <maintenance-associations>
            <maintenance-association>
               <ma-name>MA_NAME</ma-name>
               <config>
                  <ma-name>MA_NAME</ma-name>
               </config>
               <maintenance-end-points>
                  <maintenance-end-point>
                     <mep-id>1</mep-id>
                     <config>
                        <mep-id>1</mep-id>
                     </config>
                     <ethernet-locked-signal>
                     <config>
                           <client-md-level>0</client-md-level> <!--
operation="delete"-->
                     </config>
                  </ethernet-locked-signal>
               </maintenance-end-point>
            </maintenance-end-points>
         </maintenance-association>
      </maintenance-associations>
   </maintenance-domain>
   </maintenance-domains>
   </cfm>
```

Command Syntax

```
    message level <0-7>
```

Configure interval

This attribute specifies the ETH-LCK transmission period

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: interval

Attribute Type: enum (1s|1min)

Default Value: 1s

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
   <maintenance-domain>
      <md-name>DOMAIN_NAME</md-name>
      <config>
         <md-name>DOMAIN_NAME</md-name>
      </config>
      <maintenance-associations>
         <maintenance-association>
            <ma-name>MA_NAME</ma-name>
            <config>
               <ma-name>MA_NAME</ma-name>
            </config>
            <maintenance-end-points>
               <maintenance-end-point>
                  <mep-id>1</mep-id>
                  <config>
                     <mep-id>1</mep-id>
                  </config>
                  <ethernet-locked-signal>
                  <config>
                        <interval>1s</interval> <!-- operation="delete"-->
                  </config>
               </ethernet-locked-signal>
            </maintenance-end-point>
         </maintenance-end-points>
      </maintenance-association>
   </maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
 interval (1s|1min)
```

Configure priority

This attribute specifies the priority of frames with ETH-LCK information

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: priority

Attribute Type: uint8

Default Value: 3

Attribute Range: 0-7

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
```

```
    <maintenance-domain>
       <md-name>DOMAIN_NAME</md-name>
       <config>
          <md-name>DOMAIN_NAME</md-name>
       </config>
       <maintenance-associations>
          <maintenance-association>
             <ma-name>MA_NAME</ma-name>
             <config>
                <ma-name>MA_NAME</ma-name>
             </config>
             <maintenance-end-points>
                <maintenance-end-point>
                   <mep-id>1</mep-id>
                   <config>
                      <mep-id>1</mep-id>
                   </config>
                   <ethernet-locked-signal>
                   <config>
                          <priority>0</priority> <!-- operation="delete"-->
                   </config>
                </ethernet-locked-signal>
             </maintenance-end-point>
          </maintenance-end-points>
       </maintenance-association>
    </maintenance-associations>
 </maintenance-domain>
 </maintenance-domains>
 </cfm>
```

Command Syntax

```
 frame priority <0-7>
```

Configure enable status

This attribute specifies whether ETH-AIS transmission is enabled

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: enable-status

Attribute Type: uint8

Attribute Name: client-md-level

Attribute Type: uint8

Attribute Range: 0-7

Netconf edit-config payload

```
 <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
 <maintenance-domains>
    <maintenance-domain>
       <md-name>DOMAIN_NAME</md-name>
```

```
        <config>
           <md-name>DOMAIN_NAME</md-name>
        </config>
        <maintenance-associations>
           <maintenance-association>
              <ma-name>MA_NAME</ma-name>
              <config>
                 <ma-name>MA_NAME</ma-name>
              </config>
              <maintenance-end-points>
                 <maintenance-end-point>
                    <mep-id>1</mep-id>
                    <config>
                       <mep-id>1</mep-id>
                    </config>
                    <ethernet-alarm-indication-signal>
                    <config>
                          <client-md-level>0</client-md-level>
                          </enable-status>
                    </config>
                 </ethernet-alarm-indication-signal>
              </maintenance-end-point>
           </maintenance-end-points>
        </maintenance-association>
     </maintenance-associations>
  </maintenance-domain>
  </maintenance-domains>
  </cfm>
```

Command Syntax

```
 ais status enable level <0-7>
```

Configure ma name

This attribute specifies the ETH-AIS transmission period

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: interval

Attribute Type: enum (1s|1min)

Default Value: 1s

Netconf edit-config payload

```
  <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
     <maintenance-domain>
        <md-name>DOMAIN_NAME</md-name>
        <config>
           <md-name>DOMAIN_NAME</md-name>
        </config>
```

```
        <maintenance-associations>
           <maintenance-association>
              <ma-name>MA_NAME</ma-name>
              <config>
                 <ma-name>MA_NAME</ma-name>
              </config>
              <maintenance-end-points>
                 <maintenance-end-point>
                    <mep-id>1</mep-id>
                    <config>
                       <mep-id>1</mep-id>
                    </config>
                    <ethernet-alarm-indication-signal>
                    <config>
                          <interval>1s</interval> <!-- operation="delete"-->
                    </config>
                 </ethernet-alarm-indication-signal>
              </maintenance-end-point>
           </maintenance-end-points>
        </maintenance-association>
     </maintenance-associations>
  </maintenance-domain>
  </maintenance-domains>
  </cfm>
```

Command Syntax

```
ais interval (1s|1min)
```

Configure enable lm responder

Enable the MEP to respond for each Loss Measurement Message(LMM)

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: enable-lm-responder

Attribute Type: enum (lmm|slm)

Default Value: slm

Netconf edit-config payload

```
  <cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
  <maintenance-domains>
     <maintenance-domain>
        <md-name>DOMAIN_NAME</md-name>
        <config>
           <md-name>DOMAIN_NAME</md-name>
        </config>
        <maintenance-associations>
           <maintenance-association>
              <ma-name>MA_NAME</ma-name>
              <config>
```

```
                    <ma-name>MA_NAME</ma-name>
                </config>
                <maintenance-end-points>
                    <maintenance-end-point>
                        <mep-id>1</mep-id>
                        <config>
                            <mep-id>1</mep-id>
                        </config>
                        <y1731-responders>
                        <config>
                               <enable-lm-responder>slm</enable-lm-responder> <!--
operation="delete"-->
                        </config>
                    </y1731-responders>
                </maintenance-end-point>
            </maintenance-end-points>
        </maintenance-association>
    </maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm loss-measurement reply (lmm|slm)
```

Configure enable dm responder

Enable the MEP to respond with Delay Measurement Reply(DMR) for each Delay Measurement Message(DMM) of the peer

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: enable-dm-responder

Attribute Type: empty

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<maintenance-domains>
    <maintenance-domain>
        <md-name>DOMAIN_NAME</md-name>
        <config>
            <md-name>DOMAIN_NAME</md-name>
        </config>
        <maintenance-associations>
            <maintenance-association>
                <ma-name>MA_NAME</ma-name>
                <config>
                    <ma-name>MA_NAME</ma-name>
                </config>
                <maintenance-end-points>
                    <maintenance-end-point>
```

```
                    <mep-id>1</mep-id>
                    <config>
                       <mep-id>1</mep-id>
                    </config>
                    <y1731-responders>
                    <config>
                          </enable-dm-responder><!-- operation="delete"-->
                    </config>
                 </y1731-responders>
              </maintenance-end-point>
           </maintenance-end-points>
        </maintenance-association>
     </maintenance-associations>
  </maintenance-domain>
  </maintenance-domains>
  </cfm>
```

Command Syntax

```
ethernet cfm delay-measurement reply dmm
```

Configure profile name

This attribute contains the profile name for the ETH-TST Session

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile> <!-- operation="delete"-->
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
ethernet cfm test-signal profile-name WORD
```

Configure mode

This attribute indicates the MEP is acting in the role of a generator or receiver or both

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: mode

Attribute Type: enum (generator|receiver|both)

Default Value: receiver

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <mode>receiver</mode> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
mode (generator|receiver|both)
```

Configure test type

This attribute specifies whether it is service interrupting or not

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: test-type

Attribute Type: enum (in-service|out-of-service)

Default Value: in-service

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <test-type>in-service</test-type> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
test-type (in-service|out-of-service)
```

Configure frame size

This attribute specifies the ETH-Test Ethernet frame size.

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: frame-size

Attribute Type: enum (64|128|256|512|1024|1280|1518)

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <frame-size>64</frame-size> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
frame-size (64|128|256|512|1024|1280|1518)
```

Configure pattern type

This attribute specifies an arbitrary element to include in the Data TLV

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: pattern-type

Attribute Type: enum (null-sig|prbs)

Default Value: null-sig

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <pattern-type>null-sig</pattern-type> <!-- operation="delete"-->
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
pattern-type (null-sig|prbs)
```

Configure eir

Excess Information Rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware,Broadcom DNX (Q2) platform specific features

Attribute Name: eir

Attribute Type: uint64

Attribute Name: eir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: eir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: eir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
   <excess-information-rate>
   <config>
          <eir-unit>kbps</eir-unit> <!-- operation="delete"-->
          <eir-cos>0</eir-cos> <!-- operation="delete"-->
          <eir-dei>0</eir-dei> <!-- operation="delete"-->
          <eir>1</eir> <!-- operation="delete"-->
   </config>
</excess-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
 eir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir

commited information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
   <commited-information-rate>
   <config>
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <cir-cos>0</cir-cos> <!-- operation="delete"-->
          <cir-dei>0</cir-dei> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</commited-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
 cir <1-8000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir unit

commited information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
   <commited-information-rate>
   <config>
          <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
          <cir-cos>0</cir-cos> <!-- operation="delete"-->
          <cir-dei>0</cir-dei> <!-- operation="delete"-->
          <cir>1</cir> <!-- operation="delete"-->
   </config>
</commited-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
cir <1-19000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir cos

commited information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
```

```
    </config>
    <commited-information-rate>
    <config>
           <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
           <cir-cos>0</cir-cos> <!-- operation="delete"-->
           <cir-dei>0</cir-dei> <!-- operation="delete"-->
           <cir>1</cir> <!-- operation="delete"-->
    </config>
</commited-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
cir <1-23000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure cir dei

commited information rate

This command is supported when following feature are enabled CFM Y1731 Packets generated from hardware

Attribute Name: cir

Attribute Type: uint64

Attribute Name: cir-unit

Attribute Type: enum (kbps|mbps)

Attribute Name: cir-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cir-dei

Attribute Type: uint8

Attribute Range: 0-1

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-test-signal-profiles>
<ethernet-test-signal-profile>
    <profile-name>WORD</profile-name>
    <config>
       <profile-name>WORD</profile-name>
    </config>
    <commited-information-rate>
    <config>
           <cir-unit>kbps</cir-unit> <!-- operation="delete"-->
           <cir-cos>0</cir-cos> <!-- operation="delete"-->
           <cir-dei>0</cir-dei> <!-- operation="delete"-->
           <cir>1</cir> <!-- operation="delete"-->
    </config>
```

```
</commited-information-rate>
</ethernet-test-signal-profile>
</ethernet-test-signal-profiles>
</cfm>
```

Command Syntax

```
cir <1-400000> (kbps|mbps) cos <0-7> dei <0-1>
```

Configure ethernet-loss-measurement-profiles profile-name

This attribute specifies the profile name for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile> <!-- operation="delete"-->
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
ethernet cfm loss-measurement profile-name WORD
```

Configure message period

This attribute specifies the message period for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: message-period

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Default Value: 1s

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
```

```
    </config>
       <message-period>1s</message-period> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
message-period (3ms|10ms|100ms|1s|10s)
```

Configure ethernet-loss-measurement-profile message-period

This attribute specifies the message period for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: message-period

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Default Value: 1s

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <message-period>1s</message-period> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
message-period (3ms|10ms|100ms|1s|10s|1min|10min)
```

Configure measurement type

This attribute specifies the measurement type for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: measurement-type

Attribute Type: enum (lmm|slm|ccm)

Default Value: slm

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
   <profile-name>WORD</profile-name>
```

```
    <config>
       <profile-name>WORD</profile-name>
    </config>
       <measurement-type>slm</measurement-type> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
measurement-type (lmm|slm|ccm)
```

Configure measurement interval

This attribute specifies the measurement interval for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: measurement-interval

Attribute Type: uint32

Default Value: 15

Attribute Range: 1-525600

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <measurement-interval>1</measurement-interval> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
measurement-interval <1-525600>
```

Configure intervals stored

This attribute specifies the stored interval for the SOAM LM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: intervals-stored

Attribute Type: uint16

Default Value: 32

Attribute Range: 2-1000

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-loss-measurement-profiles>
<ethernet-loss-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <intervals-stored>2</intervals-stored> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
intervals-stored <2-1000>
```

Configure ethernet-delay-measurement-profiles profile-name

This attribute contains the profile name for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile> <!-- operation="delete"-->
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
ethernet cfm delay-measurement profile-name WORD
```

Configure ethernet-delay-measurement-profile message-period

This attribute specifies the message period for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: message-period

Attribute Type: enum (3ms|10ms|100ms|1s|10s|1min|10min)

Default Value: 1s

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <message-period>1s</message-period> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
message-period (100ms|1s|10s)
```

Configure ethernet-delay-measurement-profile measurement-interval

This attribute specifies the measurement interval for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: measurement-interval

Attribute Type: uint16

Default Value: 15

Attribute Range: 1-1440

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <measurement-interval>1</measurement-interval> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
measurement-interval <1-1440>
```

Configure ethernet-delay-measurement-profile intervals-stored

This attribute specifies the intervals stored for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: intervals-stored

Attribute Type: uint16

Default Value: 32

Attribute Range: 2-1000

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <intervals-stored>2</intervals-stored> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
intervals-stored <2-1000>
```

Configure bins per fd interval

This attribute specifies the bins per fd interval for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: bins-per-fd-interval

Attribute Type: uint8

Default Value: 3

Attribute Range: 2-10

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <bins-per-fd-interval>2</bins-per-fd-interval> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
bins-per-fd-interval <2-10>
```

Configure bins per ifdv interval

This attribute specifies the bins per ifdv interval for the SOAM DM Session

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: bins-per-ifdv-interval

Attribute Type: uint8

Default Value: 2

Attribute Range: 2-10

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
      <bins-per-ifdv-interval>2</bins-per-ifdv-interval> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
 bins-per-ifdv-interval <2-10>
```

Configure bin number

This object specifies the bin number for the configured boundary

This command is supported when following feature are enabled CFM Y1731 feature

Attribute Name: bin-number

Attribute Type: uint8

Attribute Range: 2-10

Attribute Name: threshold

Attribute Type: uint32

Attribute Range: 1-4294967294

Netconf edit-config payload

```
<cfm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<ethernet-delay-measurement-profiles>
<ethernet-delay-measurement-profile>
   <profile-name>WORD</profile-name>
   <config>
      <profile-name>WORD</profile-name>
   </config>
   <bin-thresholds>
```

```
      <bin-threshold> <!-- operation="delete"-->
         <bin-number>2</bin-number>
         <config>
            <bin-number>2</bin-number>
            <type>frame-delay</type>
            <threshold>1</threshold>
         </config>
            <type>frame-delay</type>
      </bin-threshold>
   </bin-thresholds>
   </ethernet-delay-measurement-profile>
   </ethernet-delay-measurement-profiles>
   </cfm>
```

Command Syntax

```
bin-type (frame-delay|inter-frame-delay-variation) bin <2-10> threshold <1-
  4294967294>
```

abort test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191>

Attribute Name: domain-name

Attribute Type: string

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Netconf RPC payload

```
      <ipi-cfm-y1731_cfm-l2-abort-eth-test-signal xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-cfm">
      <domain-name>DOMAIN_NAME</domain-name>
      <ma-name>MA_NAME</ma-name>
      <mep-id>1</mep-id>
      </ipi-cfm-y1731_cfm-l2-abort-eth-test-signal>
```

Command Syntax

```
abort test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191>
```

test-signal start-time (relative) <0-4294967295> stop-time (relative) <0-4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC|<1-8191>)

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <start-time-type>relative</start-time-type>
       <start-time>0</start-time>
       <stop-time-type>relative</stop-time-type>
       <stop-time>0</stop-time>
       <profile-name>WORD</profile-name>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       <mep-id>1</mep-id>
       <test-target>CFM_RMEP_TYPE_T</test-target>
       </ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-relative>
```

Command Syntax

```
    test-signal start-time (relative) <0-4294967295> stop-time (relative) <0-
      4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191>
      target (mac-address MAC|<1-8191>)
```

test-signal start-time (absolute) START-TIME stop-time (relative) <0-4294967295> tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC|<1-8191>)

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <start-time-type>absolute</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>relative</stop-time-type>
       <stop-time>0</stop-time>
       <profile-name>WORD</profile-name>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       <mep-id>1</mep-id>
       <test-target>CFM_RMEP_TYPE_T</test-target>
       </ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-relative>
```

Command Syntax

```
test-signal start-time (absolute) START-TIME stop-time (relative) <0-4294967295>
  tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-
  address MAC|<1-8191>)
```

test-signal start-time (relative) <0-4294967295> stop-time (absolute) STOP-TIME tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC|<1-8191>)

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: uint32

Attribute Range: 0-4294967295

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```
      <ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
      <start-time-type>relative</start-time-type>
      <start-time>0</start-time>
      <stop-time-type>absolute</stop-time-type>
      <stop-time>STOP-TIME</stop-time>
      <profile-name>WORD</profile-name>
```

```
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
<mep-id>1</mep-id>
<test-target>CFM_RMEP_TYPE_T</test-target>
</ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-relative-stop-absolute>
```

Command Syntax

```
test-signal start-time (relative) <0-4294967295> stop-time (absolute) STOP-TIME
  tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-
  address MAC|<1-8191>)
```

test-signal start-time (absolute) START-TIME stop-time (absolute) STOP-TIME tst-profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address MAC|<1-8191>)

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 1-64

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: test-target

Attribute Type: union

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
<start-time-type>absolute</start-time-type>
```

```
<start-time>START-TIME</start-time>
<stop-time-type>absolute</stop-time-type>
<stop-time>STOP-TIME</stop-time>
<profile-name>WORD</profile-name>
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
<mep-id>1</mep-id>
<test-target>CFM_RMEP_TYPE_T</test-target>
</ipi-cfm-y1731_cfm-l2-eth-test-on-demand-start-absolute-stop-absolute>
```

Command Syntax

```
test-signal start-time (absolute) START-TIME stop-time (absolute) STOP-TIME tst-
  profile-name WORD domain DOMAIN_NAME ma MA_NAME mep <1-8191> target (mac-address
  MAC|<1-8191>)
```

loss-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>) mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-eth-lm-start-proactive xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-cfm">
<profile-name>WORD</profile-name>
<rmep-id>CFM_RMEP_TYPE_T</rmep-id>
<mep-id>1</mep-id>
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-start-proactive>
```

Command Syntax

```
loss-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>)
  mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>immediate</start-time-type>
       <stop-time-type>none</stop-time-type>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-none>
```

Command Syntax

```
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
  start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep
  <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>immediate</start-time-type>
       <stop-time-type>relative</stop-time-type>
```

```
<stop-time>STOP-TIME</stop-time>
<repetition-period>6000</repetition-period>
<mep-id>1</mep-id>
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-relative>
```

Command Syntax

```
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
  start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-
  4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>immediate</start-time-type>
       <stop-time-type>absolute</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-immediate-stop-absolute>
```

Command Syntax

```
    loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-
      4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>relative</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>none</stop-time-type>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-none>
```

Command Syntax

```
    loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (relative) START-TIME stop-time (none) repetition-period <6000-
      4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>relative</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>relative</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-relative>
```

Command Syntax

```
     loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
       start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period
       <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>relative</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>absolute</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-relative-stop-absolute>
```

Command Syntax

```
    loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period
      <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>absolute</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>none</stop-time-type>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
```

```
</ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-none>
```

Command Syntax

```
loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
  start-time (absolute) START-TIME stop-time (none) repetition-period <6000-
  4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

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Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>absolute</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>relative</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-relative>
```

Command Syntax

```
    loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period
      <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>absolute</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>absolute</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-lm-on-demand-start-absolute-stop-absolute>
```

Command Syntax

```
    loss-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period
      <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

abort loss-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-abort-eth-lm-test xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-cfm">
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
```

```
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-abort-eth-lm-test>
```

Command Syntax

```
abort loss-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm loss-measurement history mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-lm-history-stats xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
<mep-id>1</mep-id>
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-clear-eth-lm-history-stats>
```

Command Syntax

```
clear ethernet cfm loss-measurement history mep <1-8191> domain DOMAIN_NAME ma
  MA_NAME
```

delay-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>) mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-start-proactive xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-start-proactive>
```

Command Syntax

```
    delay-measurement type proactive profile-name WORD rmep (mac-address MAC|<1-8191>)
      mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>immediate</start-time-type>
       <stop-time-type>none</stop-time-type>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-none>
```

Command Syntax

```
    delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (immediate) stop-time (none) repetition-period <6000-4294967295> mep
      <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>immediate</start-time-type>
       <stop-time-type>relative</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-relative>
```

Command Syntax

```
    delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (immediate) stop-time (relative) STOP-TIME repetition-period <6000-
      4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (immediate)

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>immediate</start-time-type>
       <stop-time-type>absolute</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-immediate-stop-absolute>
```

Command Syntax

```
    delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (immediate) stop-time (absolute) STOP-TIME repetition-period <6000-
      4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

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Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>relative</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>none</stop-time-type>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-none>
```

Command Syntax

```
    delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (relative) START-TIME stop-time (none) repetition-period <6000-
      4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (relative) STOP-

TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>relative</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>relative</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
```

```
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-relative>
```

Command Syntax

```
delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
  start-time (relative) START-TIME stop-time (relative) STOP-TIME repetition-period
  <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (relative)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

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Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>relative</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>absolute</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-relative-stop-absolute>
```

Command Syntax

```
    delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (relative) START-TIME stop-time (absolute) STOP-TIME repetition-period
      <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (none) repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (none)

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-none xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>absolute</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>none</stop-time-type>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-none>
```

Command Syntax

```
    delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (absolute) START-TIME stop-time (none) repetition-period <6000-
      4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (relative)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-relative
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>absolute</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>relative</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-relative>
```

Command Syntax

```
     delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
       start-time (absolute) START-TIME stop-time (relative) STOP-TIME repetition-period
       <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>) start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: profile-name

Attribute Type: string

Attribute Range: 0-64

Attribute Name: rmep-id

Attribute Type: union

Attribute Name: start-time-type

Attribute Type: enum (absolute)

Attribute Name: start-time

Attribute Type: string

Attribute Name: stop-time-type

Attribute Type: enum (absolute)

Attribute Name: stop-time

Attribute Type: string

Attribute Name: repetition-period

Attribute Type: yang:timeticks

Attribute Range: 6000-4294967295

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-absolute
xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <profile-name>WORD</profile-name>
       <rmep-id>CFM_RMEP_TYPE_T</rmep-id>
       <start-time-type>absolute</start-time-type>
       <start-time>START-TIME</start-time>
       <stop-time-type>absolute</stop-time-type>
       <stop-time>STOP-TIME</stop-time>
       <repetition-period>6000</repetition-period>
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-eth-dm-on-demand-start-absolute-stop-absolute>
```

Command Syntax

```
    delay-measurement type on-demand profile-name WORD rmep (mac-address MAC|<1-8191>)
      start-time (absolute) START-TIME stop-time (absolute) STOP-TIME repetition-period
      <6000-4294967295> mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

abort delay-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-abort-eth-dm-test xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-cfm">
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-abort-eth-dm-test>
```

Command Syntax

```
    abort delay-measurement mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm delay-measurement history mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-clear-eth-dm-history-stats xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
```

```
</ipi-cfm-y1731_cfm-l2-clear-eth-dm-history-stats>
```

Command Syntax

```
clear ethernet cfm delay-measurement history mep <1-8191> domain DOMAIN_NAME ma
  MA_NAME
```

clear ethernet cfm statistics csf mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
<ipi-cfm-y1731_cfm-l2-clear-eth-csf-stats xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-cfm">
<mep-id>1</mep-id>
<md-name>DOMAIN_NAME</md-name>
<ma-name>MA_NAME</ma-name>
</ipi-cfm-y1731_cfm-l2-clear-eth-csf-stats>
```

Command Syntax

```
clear ethernet cfm statistics csf mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm statistics bn mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

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Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-clear-eth-bn-stats xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-cfm">
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-clear-eth-bn-stats>
```

Command Syntax

```
    clear ethernet cfm statistics bn mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm statistics lck mep <1-8191> domain DOMAIN_NAME ma MA_NAME

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-clear-eth-lck-stats xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-cfm">
       <mep-id>1</mep-id>
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       </ipi-cfm-y1731_cfm-l2-clear-eth-lck-stats>
```

Command Syntax

```
    clear ethernet cfm statistics lck mep <1-8191> domain DOMAIN_NAME ma MA_NAME
```

clear ethernet cfm statistics test-signal domain DOMAIN_NAME ma MA_NAME mep <1-8191> stats (gtf|ctf)

Attribute Name: md-name

Attribute Type: string

Attribute Range: 5-7

Attribute Name: ma-name

Attribute Type: string

Attribute Range: 1-6

Attribute Name: mep-id

Attribute Type: uint16

Attribute Range: 1-8191

Attribute Name: stats-type

Attribute Type: enum (gtf|ctf)

Netconf RPC payload

```
       <ipi-cfm-y1731_cfm-l2-clear-eth-test-signal-stats xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-cfm">
       <md-name>DOMAIN_NAME</md-name>
       <ma-name>MA_NAME</ma-name>
       <mep-id>1</mep-id>
       <stats-type>gtf</stats-type>
       </ipi-cfm-y1731_cfm-l2-clear-eth-test-signal-stats>
```

Command Syntax

```
clear ethernet cfm statistics test-signal domain DOMAIN_NAME ma MA_NAME mep <1-
  8191> stats (gtf|ctf)
```

IPI-UDLD

Configure enable

Use this attribute to enable UDLD

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<global>
<config>
   </enable><!-- operation="delete"-->
</config>
</global>
</udld>
```

Command Syntax

```
udld enable
```

Configure message time

Use this attribute to set UDLD message interval value

Attribute Name: message-time

Attribute Type: uint8

Attribute Range: 7-90

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<global>
<config>
   <message-time>7</message-time> <!-- operation="delete"-->
</config>
</global>
</udld>
```

Command Syntax

```
udld message-time <7-90>
```

Configure options

Use this attribute to enable or disable UDLD debugging at various levels

Attribute Name: options

Attribute Type: bits (event|packet|timer|nsm|hal|all)

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<debug>
<config>
   <options>event</options> <!-- operation="delete"-->
</config>
</debug>
</udld>
```

Command Syntax

```
debug udld (event|packet|timer|nsm|hal|all)
```

Configure mode

Use this attribute to configure UDLD mode for an interface

Attribute Name: mode

Attribute Type: enum (normal|aggressive)

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <mode>normal</mode> <!-- operation="delete"-->
</interface>
```

```
</interfaces>
</udld>
```

Command Syntax

```
udld mode (normal|aggressive)
```

Configure administrative state

Use this attribute configure UDLD administrative state for an interface

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<udld xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <administrative-state>disable</administrative-state> <!-- operation="delete"-->
</interface>
</interfaces>
</udld>
```

Command Syntax

```
udld state (disable|enable)
```

debug udld (event|packet|timer|nsm|hal|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|packet|timer|nsm|hal|all)

Netconf RPC payload

```
<udld-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<terminal-debug-options>event</terminal-debug-options>
</udld-terminal-debug-on>
```

Command Syntax

```
debug udld (event|packet|timer|nsm|hal|all)
```

no debug udld (event|packet|timer|nsm|hal|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|packet|timer|nsm|hal|all)

Netconf RPC payload

```
<udld-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-udld">
<terminal-debug-options>event</terminal-debug-options>
</udld-terminal-debug-off>
```

Command Syntax

```
no debug udld (event|packet|timer|nsm|hal|all)
```

IPI-PTP

Configure instance type

PTP instance type

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: instance-type

Attribute Type: uint8

Attribute Range: 0-1

Attribute Name: profile

Attribute Type: enum (g8265.1|g8275.1|g8275.2|e2e-transparent|default|smpte)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance> <!-- operation="delete"-->
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
      <profile>g8265.1</profile>
   </config>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
ptp clock <0-1> profile (g8265.1|g8275.1|g8275.2|e2e-transparent|default|smpte)
```

Configure color frame

setting color-frame

This command is supported when following feature are enabled Precision Time Protocol (PTP) custom feature,Precision Time Protocol (PTP) feature

Attribute Name: color-frame

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<tlv>
<config>
      </color-frame><!-- operation="delete"-->
</config>
</tlv>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
sm-tlv time-address-flags color-frame
```

Configure drop frame

setting drop-frame

This command is supported when following feature are enabled Precision Time Protocol (PTP) custom feature,Precision Time Protocol (PTP) feature

Attribute Name: drop-frame

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<tlv>
<config>
      </drop-frame><!-- operation="delete"-->
</config>
</tlv>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
sm-tlv time-address-flags drop-frame
```

Configure denominator

Setting denominator for the default system frame rate

This command is supported when following feature are enabled Precision Time Protocol (PTP) custom feature,Precision Time Protocol (PTP) feature

Attribute Name: denominator

Attribute Type: uint32

Attribute Name: numerator

Attribute Type: uint32

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<tlv>
<config>
       <numerator>0</numerator>
       <denominator>0</denominator>
</config>
</tlv>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 sm-tlv default-frame-rates <0-4294967295> <0-4294967295>
```

Configure number ports

Number of ports

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: number-ports

Attribute Type: uint8

Default Value: 1

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
```

```
   </config>
<default-data-set>
<config>
       <number-ports>1</number-ports> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
number-ports <1-31>
```

Configure default-data-set number-ports

Number of ports

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: number-ports

Attribute Type: uint8

Default Value: 1

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <number-ports>1</number-ports> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
number-ports <1-128>
```

Configure l2 pkt forward

l2-pkt-forward

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: l2-pkt-forward

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       </l2-pkt-forward><!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
l2-pkt-forward
```

Configure domain

The domain number of the current domain

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: domain

Attribute Type: uint8

Default Value: 24

Attribute Range: 0-127

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <domain>0</domain> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
domain <0-127>
```

Configure servo config

servo config

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: servo-config

Attribute Type: enum (fts|fts-no-synce)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <servo-config>fts</servo-config> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 servo (fts|fts-no-synce)
```

Configure external clock holdover duration

External clock holdover duration

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: external-clock-holdover-duration

Attribute Type: uint16

Default Value: 120

Attribute Range: 0-10080

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
```

```
          <external-clock-holdover-duration>0</external-clock-holdover-duration> <!--
operation="delete"-->
   </config>
   </default-data-set>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    holdover <0-10080>
```

Configure system clock sync

External clock holdover duration

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: system-clock-sync

Attribute Type: uint16

Default Value: 30

Attribute Range: 5-600

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <default-data-set>
   <config>
          <system-clock-sync>5</system-clock-sync> <!-- operation="delete"-->
   </config>
   </default-data-set>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    system-clock-sync (<5-600>|)
```

Configure ptp clock sync

Initialise ptp clock from operating system clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: ptp-clock-sync

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       </ptp-clock-sync><!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
ptp-clock-sync
```

Configure ptsf wtr duration

External clock holdover duration

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: ptsf-wtr-duration

Attribute Type: uint16

Default Value: 5

Attribute Range: 1-1440

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <ptsf-wtr-duration>1</ptsf-wtr-duration> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
ptsf-wait-to-restore <1-1440>
```

Configure g8265p1 wtr duration

g8265.1 master wtr

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: g8265p1-wtr-duration

Attribute Type: uint64

Default Value: 0

Attribute Range: 0-3600

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
      <g8265p1-wtr-duration>0</g8265p1-wtr-duration> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 g8265.1-wtr <0-3600>
```

Configure g8265p1 option

g8265.1 option

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: g8265p1-option

Attribute Type: enum (1|2)

Default Value: 1

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
```

```
<config>
       <g8265p1-option>1</g8265p1-option> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
g8265.1-option (1|2)
```

Configure reserved vlan base

Reserved vlan base index

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: reserved-vlan-base

Attribute Type: uint16

Default Value: 4064

Attribute Range: 1-4064

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <reserved-vlan-base>1</reserved-vlan-base> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
reserved-vlan-base-id <1-4064>
```

Configure two step

two step

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: two-step

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
      </two-step><!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
two-step
```

Configure clock type tgm

clock type as tgm

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-type-tgm

Attribute Type: enum (tgm)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
      <clock-type-tgm>tgm</clock-type-tgm> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
clock-type (tgm)
```

Configure one way

For G.8265.1 one-way ptp

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: one-way

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       </one-way><!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 one-way
```

Configure pps pulse offset

1pps Out Pulse Offset in nanoseconds

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: pps-pulse-offset

Attribute Type: int16

Default Value: 0

Attribute Range: -2048-2048

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
```

```
        <pps-pulse-offset>-2048</pps-pulse-offset> <!-- operation="delete"-->
    </config>
    </default-data-set>
    </ptp-instance>
    </ptp-instances>
    </ptp>
```

Command Syntax

```
 1pps-out offset <-2048-2048>
```

Configure pps in smx tod type

1pps in SMX tod type

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: pps-in-smx-tod-type

Attribute Type: enum (smx|tod)

Default Value: tod

Netconf edit-config payload

```
    <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
    <ptp-instances>
    <ptp-instance>
       <instance-type>0</instance-type>
       <config>
          <instance-type>0</instance-type>
       </config>
    <default-data-set>
    <config>
          <pps-in-smx-tod-type>tod</pps-in-smx-tod-type> <!-- operation="delete"-->
    </config>
    </default-data-set>
    </ptp-instance>
    </ptp-instances>
    </ptp>
```

Command Syntax

```
 1pps-in (smx|tod)
```

Configure priority 1

The priority1 attribute of the local clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: priority-1

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <priority-1>0</priority-1> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
priority1 <0-255>
```

Configure priority 2

The priority2 attribute of the local clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: priority-2

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <priority-2>0</priority-2> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
priority2 <0-255>
```

Configure slave only

When set the clock is a slave-only clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: slave-only

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       </slave-only><!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 slave-only
```

Configure local priority

The local priority attribute of the local clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: local-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 1-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
```

```
       <local-priority>1</local-priority> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
local-priority <1-255>
```

Configure max steps removed

The maximum number of communication paths between the local clock and the grandmaster clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: max-steps-removed

Attribute Type: uint8

Default Value: 255

Attribute Range: 1-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
       <max-steps-removed>1</max-steps-removed> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
max-steps-removed <1-255>
```

Configure start boundary hops

The maximum number of communication paths between the local clock and the grandmaster clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: start-boundary-hops

Attribute Type: uint8

Default Value: 255

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<config>
      <start-boundary-hops>0</start-boundary-hops> <!-- operation="delete"-->
</config>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 start-boundary-hops <0-255>
```

Configure servo history interval

PTP servo history interval

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: servo-history-interval

Attribute Type: uint8

Attribute Range: 1-60

Attribute Name: servo-history-enabled

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<servo-history>
<config>
      </servo-history-enabled>
      <servo-history-interval>1</servo-history-interval>
</config>
</servo-history>
```

```
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
servo-history <1-60>
```

Configure clock class

The clock-class denotes the traceability of the time or frequency distributed by the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-class

Attribute Type: uint8

Default Value: 248

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<clock-quality>
<config>
      <clock-class>0</clock-class> <!-- operation="delete"-->
</config>
</clock-quality>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
clock-class <0-255>
```

Configure clock accuracy

The clock-accuracy indicates the expected accuracy of the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-accuracy

Attribute Type: uint8

Default Value: 254

Attribute Range: 0-255

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <default-data-set>
   <clock-quality>
   <config>
         <clock-accuracy>0</clock-accuracy> <!-- operation="delete"-->
   </config>
   </clock-quality>
   </default-data-set>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    clock-accuracy <0-255>
```

Configure offset scaled log variance

The offset-scaled-log-variance provides an estimate of the variations of the clock from a linear timescale when it is not synchronized to another clock using the protocol

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: offset-scaled-log-variance

Attribute Type: uint16

Default Value: 65535

Attribute Range: 0-65535

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <default-data-set>
   <clock-quality>
   <config>
         <offset-scaled-log-variance>0</offset-scaled-log-variance> <!--
operation="delete"-->
   </config>
```

```
</clock-quality>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
offset-log-variance <0-65535>
```

Configure offset nano seconds

GPS offset in ns

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: offset-nano-seconds

Attribute Type: int16

Attribute Range: -2048-2048

Attribute Name: offset-seconds

Attribute Type: int8

Attribute Range: -100-100

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<default-data-set>
<gps-offset>
<config>
       <offset-seconds>-100</offset-seconds>
       <offset-nano-seconds>-2048</offset-nano-seconds>
</config>
</gps-offset>
</default-data-set>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
gps-offset { sec <-100-100>| nsec <-2048-2048> }
```

Configure port number

PTP port clock number. Default value is 1.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: port-number

Attribute Type: uint16

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port> <!-- operation="delete"-->
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 clock-port <1-31>
```

Configure ports port-number

PTP port clock number. Default value is 1.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: port-number

Attribute Type: uint16

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port> <!-- operation="delete"-->
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
```

```
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
clock-port <1-128>
```

Configure port local-priority

The local priority attribute of the PTP port clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: local-priority

Attribute Type: uint8

Default Value: 128

Attribute Range: 1-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      <local-priority>1</local-priority> <!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
local-priority <1-255>
```

Configure description

This parameter is used to set port clock description

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: description

Attribute Type: string

Attribute Range: 1-64

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      <description>LINE</description> <!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 description LINE
```

Configure transport type

Set transport type

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: transport-type

Attribute Type: enum (ipv4|ipv6|ipv4-multicast|ipv6-multicast)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
```

```
        <transport-type>ipv4</transport-type> <!-- operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    transport (ipv4|ipv6|ipv4-multicast|ipv6-multicast)
```

Configure transport v6 multicast type

Set transport type Ipv6 multicast

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: transport-v6-multicast-type

Attribute Type: enum (site-local|interface-local|link-local|admin-local|organization-local|global-local)

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
         <transport-v6-multicast-type>site-local</transport-v6-multicast-type> <!--
operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    transport ipv6-multicast type (site-local|interface-local|link-local|admin-
      local|organization-local|global-local)
```

Configure non forwardable mac addr

Set dst mac as non forwardable mac 01:80:C2:00:00:0E

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: non-forwardable-mac-addr

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      </non-forwardable-mac-addr><!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 multicast-dst-mac non-forwardable
```

Configure log min delay req interval

The base-two logarithm of the minDelayReqInterval (the minimum permitted mean time interval between successive Delay_Req messages)

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: log-min-delay-req-interval

Attribute Type: int8

Default Value: -6

Attribute Range: -7-5

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
```

```
          <port-number>1</port-number>
       </config>
          <log-min-delay-req-interval>-7</log-min-delay-req-interval> <!--
operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    log-min-delay-req-interval <-7-5>
```

Configure log announce interval

The base-two logarithm of the mean announceInterval (mean time interval between successive Announce messages)

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: log-announce-interval

Attribute Type: int8

Default Value: -3

Attribute Range: -3-4

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
         <log-announce-interval>-3</log-announce-interval> <!-- operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    log-announce-interval <-3-4>
```

Configure announce receipt timeout

The number of announceInterval that have to pass without receipt of an Announce message before the occurrence of the event ANNOUNCE_RECEIPT_TIMEOUT_ EXPIRES

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: announce-receipt-timeout

Attribute Type: uint8

Default Value: 3

Attribute Range: 2-10

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
         <announce-receipt-timeout>2</announce-receipt-timeout> <!--
operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    announce-receipt-timeout <2-10>
```

Configure log sync interval

The base-two logarithm of the mean SyncInterval for multicast messages

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: log-sync-interval

Attribute Type: int8

Default Value: -6

Attribute Range: -7-4

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
```

```
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      <log-sync-interval>-7</log-sync-interval> <!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
log-sync-interval <-7-4>
```

Configure time to live

The ttl value for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: time-to-live

Attribute Type: uint8

Default Value: 64

Attribute Range: 1-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      <time-to-live>1</time-to-live> <!-- operation="delete"-->
</port>
</ports>
```

```
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
ttl <1-255>
```

Configure ip dscp

The ip-dscp value for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: ip-dscp

Attribute Type: uint8

Default Value: 56

Attribute Range: 0-63

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      <ip-dscp>0</ip-dscp> <!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
dscp <0-63>
```

Configure unicast grant duration

Unicast grant duration field in signalling messages

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: unicast-grant-duration

Attribute Type: uint16

Default Value: 300

Attribute Range: 60-1000

Netconf edit-config payload

```
    <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
    <ptp-instances>
    <ptp-instance>
       <instance-type>0</instance-type>
       <config>
          <instance-type>0</instance-type>
       </config>
    <ports>
    <port>
       <port-number>1</port-number>
       <config>
          <port-number>1</port-number>
       </config>
          <unicast-grant-duration>60</unicast-grant-duration> <!-- operation="delete"--
>
    </port>
    </ports>
    </ptp-instance>
    </ptp-instances>
    </ptp>
```

Command Syntax

```
     unicast-grant-duration <60-1000>
```

Configure master only

When set the port is a master-only port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-only

Attribute Type: empty

Netconf edit-config payload

```
    <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
    <ptp-instances>
    <ptp-instance>
       <instance-type>0</instance-type>
       <config>
          <instance-type>0</instance-type>
       </config>
    <ports>
    <port>
       <port-number>1</port-number>
       <config>
          <port-number>1</port-number>
```

```
      </config>
         </master-only><!-- operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
master-only
```

Configure grandmaster priority 2

The priority2 denotes priority2 attribute of grandmaster clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: grandmaster-priority-2

Attribute Type: uint8

Default Value: 128

Attribute Range: 0-255

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
         <grandmaster-priority-2>0</grandmaster-priority-2> <!-- operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
grandmaster-priority2 <0-255>
```

Configure append

Appending TLV

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: append

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      </append><!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 sm-tlv append disable
```

Configure process

Processing TLV

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: process

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
```

```
    </config>
       </process><!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
sm-tlv process disable
```

Configure source ipv6 link local address

When set the clock source addrress is a linklocal address

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv6-link-local-address

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      </source-ipv6-link-local-address><!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
source-address ipv6 linklocal
```

Configure source ipv6 interface address

When set the clock source addrress as ipv6

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv6-interface-address

Attribute Type: string

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
         <source-ipv6-interface-address>IFNAME</source-ipv6-interface-address> <!--
operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    source-address ipv6 interface IFNAME
```

Configure source ipv4 interface address

When set the clock source addrress as ipv4

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv4-interface-address

Attribute Type: string

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
```

```
          <source-ipv4-interface-address>IFNAME</source-ipv4-interface-address> <!--
operation="delete"-->
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    source-address ipv4 interface IFNAME
```

Configure source ipv6 address

set the absolute source addrress as ipv6 for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
         <source-ipv6-address>X:X::X:X</source-ipv6-address> <!-- operation="delete"--
>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    source-address ipv6 address X:X::X:X
```

Configure source ipv4 address

set the absolute source addrress as ipv4 for clock-port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: source-ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
      <source-ipv4-address>A.B.C.D</source-ipv4-address> <!-- operation="delete"-->
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
 source-address ipv4 address A.B.C.D
```

Configure clock-quality clock-class

The clock-class denotes the traceability of the time or frequency distributed by the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-class

Attribute Type: uint8

Default Value: 6

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
```

```
    </config>
    <clock-quality>
    <config>
           <clock-class>0</clock-class> <!-- operation="delete"-->
    </config>
</clock-quality>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
clock-class <0-255>
```

Configure clock-quality clock-accuracy

The clock-accuracy indicates the expected accuracy of the clock

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: clock-accuracy

Attribute Type: uint8

Default Value: 33

Attribute Range: 0-255

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
    <instance-type>0</instance-type>
    <config>
        <instance-type>0</instance-type>
    </config>
<ports>
<port>
    <port-number>1</port-number>
    <config>
        <port-number>1</port-number>
    </config>
    <clock-quality>
    <config>
           <clock-accuracy>0</clock-accuracy> <!-- operation="delete"-->
    </config>
</clock-quality>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
clock-accuracy <0-255>
```

Configure clock-quality offset-scaled-log-variance

The offset-scaled-log-variance provides an estimate of the variations of the clock from a linear timescale when it is not synchronized to another clock using the protocol

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: offset-scaled-log-variance

Attribute Type: uint16

Default Value: 20061

Attribute Range: 0-65535

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
      <clock-quality>
      <config>
            <offset-scaled-log-variance>0</offset-scaled-log-variance> <!--
operation="delete"-->
      </config>
   </clock-quality>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
offset-log-variance <0-65535>
```

Configure delay asymmetry nsec

Set delay-asymmetry in nanoseconds

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: delay-asymmetry-nsec

Attribute Type: int32

Attribute Range: -1000000-1000000

Attribute Name: delay-asymmetry-msec

Attribute Type: int8

Attribute Range: -100-100

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<ports>
<port>
   <port-number>1</port-number>
   <config>
      <port-number>1</port-number>
   </config>
   <asymmetry-delay>
   <config>
          <delay-asymmetry-msec>-100</delay-asymmetry-msec>
          <delay-asymmetry-nsec>-1000000</delay-asymmetry-nsec>
   </config>
</asymmetry-delay>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
delay-asymmetry (msec <-100-100>|) (nsec <-1000000-1000000>|)
```

Configure network interface

Reference to the configured underlying interface that is used by this PTP Port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: network-interface

Attribute Type: union

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
```

```
    <config>
       <instance-type>0</instance-type>
    </config>
<ports>
<port>
    <port-number>1</port-number>
    <config>
       <port-number>1</port-number>
    </config>
    <network-interfaces>
    <network-interface> <!-- operation="delete"-->
       <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
       <config>
          <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
       </config>
    </network-interface>
</network-interfaces>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
network-interface (IFNAME|gps|prc)
```

Configure vlan physical interface name

Reference to the configured underlying interface that is used by this vlan interface PTP Port

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: vlan-physical-interface-name

Attribute Type: string

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
    <instance-type>0</instance-type>
    <config>
       <instance-type>0</instance-type>
    </config>
<ports>
<port>
    <port-number>1</port-number>
    <config>
       <port-number>1</port-number>
    </config>
    <network-interfaces>
    <network-interface>
```

```
          <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
          <config>
             <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
          </config>
             <vlan-physical-interface-name>IFNAME</vlan-physical-interface-name> <!--
operation="delete"-->
       </network-interface>
    </network-interfaces>
    </port>
    </ports>
    </ptp-instance>
    </ptp-instances>
    </ptp>
```

Command Syntax

```
     network-interface port IFNAME
```

Configure vlan physical dot1q vlan id

Reference to the configured underlying interface that is used by this PTP Port. The valid range for this attribute vlan-id is related to the value configured in reserved-vlan-base which defines a range of 31 reserved vlans for PTP from the configured value in reserved-vlan-base. By default the range reserved vlan values are 4064-4095. By default the maximum valid value for vlan-id is 4063.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: vlan-physical-dot1q-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: vlan-physical-interface-name

Attribute Type: string

Netconf edit-config payload

```
    <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
    <ptp-instances>
    <ptp-instance>
       <instance-type>0</instance-type>
       <config>
          <instance-type>0</instance-type>
       </config>
    <ports>
    <port>
       <port-number>1</port-number>
       <config>
          <port-number>1</port-number>
       </config>
       <network-interfaces>
       <network-interface>
          <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
          <config>
```

```
            <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
            <vlan-physical-interface-name>IFNAME</vlan-physical-interface-name> <!--
operation="delete"-->
         </config>
            <vlan-physical-dot1q-vlan-id>1</vlan-physical-dot1q-vlan-id> <!--
operation="delete"-->
      </network-interface>
   </network-interfaces>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    network-interface port IFNAME (dot1q <1-4095>|)
```

Configure dot1q vlan id

Reference to the configured underlying interface that is used by this PTP Port. The valid range for this attribute vlan-id is related to the value configured in reserved-vlan-base which defines a range of 31 reserved vlans for PTP from the configured value in reserved-vlan-base. By default the range reserved vlan values are 4064-4095. By default the maximum valid value for vlan-id is 4063.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: dot1q-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
      <network-interfaces>
      <network-interface>
         <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
         <config>
            <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
         </config>
            <dot1q-vlan-id>1</dot1q-vlan-id> <!-- operation="delete"-->
```

```
    </network-interface>
</network-interfaces>
</port>
</ports>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
network-interface dot1q <1-4095>
```

Configure inner dot1q vlan id

Reference to the configured underlying interface that is used by this PTP Port. The valid range for this attribute vlan-id is related to the value configured in reserved-vlan-base which defines a range of 31 reserved vlans for PTP from the configured value in reserved-vlan-base. By default the range reserved vlan values are 4064-4095. By default the maximum valid value for vlan-id is 4063.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: inner-dot1q-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Attribute Name: dot1ad-vlan-id

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
    <instance-type>0</instance-type>
    <config>
        <instance-type>0</instance-type>
    </config>
<ports>
<port>
    <port-number>1</port-number>
    <config>
        <port-number>1</port-number>
    </config>
    <network-interfaces>
    <network-interface>
        <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
        <config>
            <network-interface>PTP_NETWORK_INTERFACE_T</network-interface>
            <dot1ad-vlan-id>1</dot1ad-vlan-id> <!-- operation="delete"-->
        </config>
            <inner-dot1q-vlan-id>1</inner-dot1q-vlan-id> <!-- operation="delete"-->
```

```
      </network-interface>
   </network-interfaces>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    network-interface dot1ad <1-4095> (inner-dot1q <1-4095>|)
```

Configure master clock source ipv4 address

Set master clock ipv4 source address

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-clock-source-ipv4-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
      <master-ipv4-addresses>
      <master-ipv4-address> <!-- operation="delete"-->
         <master-clock-source-ipv4-address>A.B.C.D</master-clock-source-ipv4-address>
         <config>
            <master-clock-source-ipv4-address>A.B.C.D</master-clock-source-ipv4-
address>
         </config>
      </master-ipv4-address>
   </master-ipv4-addresses>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    master ipv4 A.B.C.D
```

Configure master ipv4 address priority

Set master clock IPv4 source address priority

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-ipv4-address-priority

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
      <master-ipv4-addresses>
      <master-ipv4-address>
         <master-clock-source-ipv4-address>A.B.C.D</master-clock-source-ipv4-address>
         <config>
            <master-clock-source-ipv4-address>A.B.C.D</master-clock-source-ipv4-
address>
         </config>
            <master-ipv4-address-priority>0</master-ipv4-address-priority> <!--
operation="delete"-->
      </master-ipv4-address>
   </master-ipv4-addresses>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    master ipv4 A.B.C.D priority <0-15>
```

Configure master clock source ipv6 address

Set master clock IPv6 source address

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-clock-source-ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
         <instance-type>0</instance-type>
      </config>
   <ports>
   <port>
      <port-number>1</port-number>
      <config>
         <port-number>1</port-number>
      </config>
      <master-ipv6-addresses>
      <master-ipv6-address> <!-- operation="delete"-->
         <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-address>
         <config>
            <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-
address>
         </config>
      </master-ipv6-address>
   </master-ipv6-addresses>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    master ipv6 X:X::X:X
```

Configure master ipv6 address priority

Set master clock IPv6 source address priority

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: master-ipv6-address-priority

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
      <instance-type>0</instance-type>
      <config>
```

```
          <instance-type>0</instance-type>
       </config>
   <ports>
   <port>
       <port-number>1</port-number>
       <config>
          <port-number>1</port-number>
       </config>
       <master-ipv6-addresses>
       <master-ipv6-address>
          <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-address>
          <config>
             <master-clock-source-ipv6-address>X:X::X:X</master-clock-source-ipv6-
address>
          </config>
             <master-ipv6-address-priority>0</master-ipv6-address-priority> <!--
operation="delete"-->
       </master-ipv6-address>
   </master-ipv6-addresses>
   </port>
   </ports>
   </ptp-instance>
   </ptp-instances>
   </ptp>
```

Command Syntax

```
    master ipv6 X:X::X:X priority <0-15>
```

Configure io type

Type of tod input/output. Default: output

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: io-type

Attribute Type: enum (input|output)

Netconf edit-config payload

```
   <ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
   <ptp-instances>
   <ptp-instance>
       <instance-type>0</instance-type>
       <config>
          <instance-type>0</instance-type>
       </config>
   <time-of-day>
   <config>
          <io-type>input</io-type> <!-- operation="delete"-->
   </config>
   </time-of-day>
   </ptp-instance>
```

```
</ptp-instances>
</ptp>
```

Command Syntax

```
tod (input|output)
```

Configure utc date

UTC date when applying leap seconds

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: utc-date

Attribute Type: string

Attribute Name: offset-seconds

Attribute Type: uint8

Attribute Range: 0-99

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<utc-offset-dates>
<utc-offset-date> <!-- operation="delete"-->
   <utc-date>YYYY-MM-DD</utc-date>
   <config>
      <utc-date>WORD</utc-date>
      <offset-seconds>0</offset-seconds>
   </config>
</utc-offset-date>
</utc-offset-dates>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
utc-offset date YYYY-MM-DD <0-99>
```

Configure baseline seconds

UTC leap seconds baseline

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: baseline-seconds

Attribute Type: uint8

Attribute Range: 0-99

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<ptp-instances>
<ptp-instance>
   <instance-type>0</instance-type>
   <config>
      <instance-type>0</instance-type>
   </config>
<utc-offset-dates>
<baseline>
<config>
      <baseline-seconds>0</baseline-seconds> <!-- operation="delete"-->
</config>
</baseline>
</utc-offset-dates>
</ptp-instance>
</ptp-instances>
</ptp>
```

Command Syntax

```
utc-offset baseline <0-99>
```

Configure enable

Use this attribute to debug the ptp process.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<debug>
<config>
   </enable><!-- operation="delete"-->
</config>
</debug>
</ptp>
```

Command Syntax

```
debug ptp
```

Configure two step time stamp

Use this attribute to enable 2-step PTP FIFO timestamp.

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: two-step-time-stamp

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<global>
<config>
   </two-step-time-stamp><!-- operation="delete"-->
</config>
</global>
</ptp>
```

Command Syntax

```
twostep-ptp-fifo-timestamp
```

Configure hw timestamp

Use this attribute to set the Hardware timestamp

This command is supported when following feature are enabled Precision Time Protocol (PTP) feature

Attribute Name: hw-timestamp

Attribute Type: empty

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<interfaces>
<interface>
   <interface-name>IFNAME</interface-name>
   <config>
      <interface-name>WORD</interface-name>
   </config>
   </hw-timestamp><!-- operation="delete"-->
</interface>
</interfaces>
</ptp>
```

Command Syntax

```
hw-timestamp
```

clear ptp clock <0-1> stats

Attribute Name: clear-clock

Attribute Type: uint8

Attribute Range: 0-1

Netconf RPC payload

```
<ptp-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp">
<clear-clock>0</clear-clock>
```

```
</ptp-clear-statistics>
```

Command Syntax

```
clear ptp clock <0-1> stats
```

debug ptp

Netconf RPC payload

```
<ptp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp"/>
```

Command Syntax

```
debug ptp
```

no debug ptp

Netconf RPC payload

```
<ptp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ptp"/>
```

Command Syntax

```
no debug ptp
```

IPI-EVPN-MPLS

Configure enable evpn mpls

Use this attribute to enable EVPN-MPLS module. Without this attribute evpn mpls functionality can not be achieved

Attribute Name: enable-evpn-mpls

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<global>
<config>
   </enable-evpn-mpls>
</config>
</global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls enable
```

Configure vtep ipv4

Use this attribute to set source vtep global ip address. This will be treated at evpn mpls tunnel source address

Attribute Name: vtep-ipv4

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<global>
<config>
   <vtep-ipv4>A.B.C.D</vtep-ipv4> <!-- operation="delete"-->
</config>
</global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls vtep-ip-global A.B.C.D
```

Configure mac ageing timer

Use this attribute to set the time till a learned mac address will persist after last update

Attribute Name: mac-ageing-timer

Attribute Type: uint32

Attribute Range: 10-572

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<global>
<config>
   <mac-ageing-timer>10</mac-ageing-timer> <!-- operation="delete"-->
</config>
</global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls mac-ageing-time <10-572>
```

Configure arp nd refresh time

Use this attribute to configure aging out the arp-cache and nd-cache entries

Attribute Name: arp-nd-refresh-time

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<arp-nd-global>
<config>
   <arp-nd-refresh-time>3</arp-nd-refresh-time> <!-- operation="delete"-->
</config>
```

```
</arp-nd-global>
</evpn-mpls>
```

Command Syntax

```
evpn mpls arp-nd refresh-timer <3-190>
```

Configure tenant identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant> <!-- operation="delete"-->
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn mpls id <1-16777215>
```

Configure vpws identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: vpws-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
      <vpws-identifier>1</vpws-identifier>
```

```
    </config>
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn mpls id <1-16777215> xconnect target-mpls-id <1-16777215>
```

Configure control word

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: control-word

Attribute Type: empty

Attribute Name: etree-leaf

Attribute Type: empty

Attribute Name: flow-label

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
    <tenant-identifier>1</tenant-identifier>
    <config>
        <tenant-identifier>1</tenant-identifier>
        </control-word>
        </etree-leaf>
        </flow-label>
    </config>
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn mpls id <1-16777215> (control-word|) (etree-leaf|) (flow-label|)
```

Configure flow label

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: vpws-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: control-word

Attribute Type: empty

Attribute Name: flow-label

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
      <vpws-identifier>1</vpws-identifier>
      </control-word>
      </flow-label>
   </config>
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
 evpn mpls id <1-16777215> xconnect target-mpls-id <1-16777215> (control-word|)
   (flow-label|)
```

Configure vrf name

Use this attribute to map vrf to carry EVPN routes

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
   <vrf-name>VRF-NAME</vrf-name> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
host-reachability-protocol evpn-bgp VRF-NAME
```

Configure mac holdtime

Use this attribute to set the time a host mac entry will persist after unconfig

Attribute Name: mac-holdtime

Attribute Type: int32

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
   <mac-holdtime>-1</mac-holdtime> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
mac-holdtime <-1-300>
```

Configure route map

Use this attribute to set route-map.

Attribute Name: route-map

Attribute Type: string

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
   <route-map>WORD</route-map> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn-route-map WORD
```

Configure tenant description

Use this attribute to set evpn-mpls tenant identifier name

Attribute Name: tenant-description

Attribute Type: string

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
   <tenant-description>WORD</tenant-description> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evi-name WORD
```

Configure tunnel policy name

Transport Tunnel Selection Policy

Attribute Name: tunnel-policy-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
   <tunnel-policy-name>WORD</tunnel-policy-name> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
tunnel-select-policy WORD
```

Configure irb name

Use this attribute to provide default gateway behavior on a VTEP for particular VNID.

Attribute Name: irb-name

Attribute Type: string

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
   <irb-name>NAME</irb-name> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn irb NAME
```

Configure evi learning limit

Attach MAC learning limit profile for EVPN MPLS EVI

Attribute Name: evi-learning-limit

Attribute Type: string

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
   <evi-learning-limit>PROFILENAME</evi-learning-limit> <!-- operation="delete"-->
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
learning limit PROFILENAME
```

Configure irb advertise host route

Use this attribute to set advertise host to route

Attribute Name: irb-advertise-host-route

Attribute Type: empty

Netconf edit-config payload

```
<evpn-mpls xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-mpls">
<mpls-tenants>
<mpls-tenant>
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
<irb>
<config>
       </irb-advertise-host-route><!-- operation="delete"-->
</config>
</irb>
</mpls-tenant>
</mpls-tenants>
</evpn-mpls>
```

Command Syntax

```
evpn irb-advertise-host-route
```

clear mac address-table dynamic evpn-mpls

Netconf RPC payload

```
      <clear-nvo-mpls-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-evpn-mpls"/>
```

Command Syntax

```
clear mac address-table dynamic evpn-mpls
```

clear mac address-table dynamic evpn-mpls evid <1-16777215> (address MACADDR|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
      <clear-nvo-mpls-dynamic-mac-address-table-evid xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-evpn-mpls">
      <tenant-identifier>1</tenant-identifier>
      <mac-address>MACADDR</mac-address>
      </clear-nvo-mpls-dynamic-mac-address-table-evid>
```

Command Syntax

```
clear mac address-table dynamic evpn-mpls evid <1-16777215> (address MACADDR|)
```

clear evpn mpls counters (vpn-id <1-16777215>|) network (egress) (dst A.B.C.D|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: egress-direction

Attribute Type: enum (egress)

Attribute Name: destination-ip

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
       <clear-evpn-mpls-egress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-mpls">
       <tenant-identifier>1</tenant-identifier>
       <egress-direction>egress</egress-direction>
       <destination-ip>A.B.C.D</destination-ip>
       </clear-evpn-mpls-egress-counters>
```

Command Syntax

```
clear evpn mpls counters (vpn-id <1-16777215>|) network (egress) (dst A.B.C.D|)
```

clear evpn mpls counters (vpn-id <1-16777215>|) network (ingress)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: ingress-direction

Attribute Type: enum (ingress)

Netconf RPC payload

```
       <clear-evpn-mpls-ingress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-mpls">
       <tenant-identifier>1</tenant-identifier>
       <ingress-direction>ingress</ingress-direction>
       </clear-evpn-mpls-ingress-counters>
```

Command Syntax

```
clear evpn mpls counters (vpn-id <1-16777215>|) network (ingress)
```

IPI-TWAMP

Configure enable

Enables TWAMP Light Control

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<control>
<config>
   </enable>
</config>
</control>
</light>
</twamp>
```

Command Syntax

```
twamp-light control
```

Configure administrative state

Sets TWAMP Light Control administrative state

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Default Value: disable

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<control>
<config>
   <administrative-state>disable</administrative-state> <!-- operation="delete"-->
</config>
</control>
</light>
</twamp>
```

Command Syntax

```
control-admin-state (disable|enable)
```

Configure vrf name

Use this attribute to set the session VRF name

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: sender-ip-address

Attribute Type: union

Attribute Name: sender-udp-port

Attribute Type: union

Attribute Name: reflector-ip-address

Attribute Type: union

Attribute Name: reflector-udp-port

Attribute Type: union

Attribute Name: dscp-value

Attribute Type: union

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<control>
<test-sessions>
<test-session>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
      <session-name>WORD</session-name>
      <sender-ip-address>TWAMP_HOSTNAME_T</sender-ip-address>
      <sender-udp-port>862</sender-udp-port>
      <reflector-ip-address>TWAMP_HOSTNAME_T</reflector-ip-address>
      <reflector-udp-port>862</reflector-udp-port>
      <dscp-value>default</dscp-value>
   </config>
   <session-name>WORD</session-name>
</test-session>
</test-sessions>
</control>
</light>
</twamp>
```

Command Syntax

```
test-session-name WORD sender-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (sender-port
  (862|<1025-65535>)|) reflector-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME)
  (reflector-port (862|<1025-65535>)|) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7|<0-63>)|) (vrf WORD|)
```

Configure session-reflector enable

Enables TWAMP Light Session Reflector

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<config>
   </enable>
</config>
</session-reflector>
</light>
</twamp>
```

Command Syntax

```
twamp-light reflector
```

Configure session-reflector administrative-state

Sets TWAMP Light Session Reflector administrative state

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Default Value: disable

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<config>
   <administrative-state>disable</administrative-state> <!-- operation="delete"-->
</config>
</session-reflector>
</light>
</twamp>
```

Command Syntax

```
reflector-admin-state (disable|enable)
```

Configure upstream intf

Use this attribute to set the VPN Network Interface for the reflector

Attribute Name: upstream-intf

Attribute Type: string

Default Value: NULL

Attribute Range: 1-32

Attribute Name: reflector-ip-address

Attribute Type: union

Attribute Name: reflector-udp-port

Attribute Type: union

Default Value: 862

Attribute Name: sender-ip-address

Attribute Type: union

Default Value: NULL

Attribute Name: sender-udp-port

Attribute Type: union

Default Value: 0

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<sessions>
<session>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
      <name>WORD</name>
      <reflector-ip-address>TWAMP_HOSTNAME_T</reflector-ip-address>
      <reflector-udp-port>862</reflector-udp-port>
      <sender-ip-address>TWAMP_HOSTNAME_T</sender-ip-address>
      <sender-udp-port>0</sender-udp-port>
   </config>
   <name>WORD</name>
   <upstream-intf>WORD</upstream-intf>
</session>
</sessions>
</session-reflector>
</light>
</twamp>
```

Command Syntax

```
reflector-name WORD reflector-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (reflector-
  port (862|<1025-65535>)|) (sender-ip (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME)|)
  (sender-port (0|862|<1025-65535>)|) (vrf WORD|) (vpn-net-interface WORD|)
```

Configure reflector udp port

Use this attribute to set Reflector UDP Port

Attribute Name: reflector-udp-port

Attribute Type: enum (862)

Default Value: 862

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<sessions>
<session>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
      <name>WORD</name>
   </config>
   <name>WORD</name>
   <reflector-udp-port>862</reflector-udp-port> <!-- operation="delete"-->
</session>
</sessions>
</session-reflector>
</light>
</twamp>
```

Command Syntax

```
 (reflector-port (862)|)
```

Configure sender ip address

Set TWAMP Reflector Session sender IP address

Attribute Name: sender-ip-address

Attribute Type: inet:ipv4-address

Default Value: NULL

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<sessions>
<session>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
      <name>WORD</name>
   </config>
   <name>WORD</name>
   <sender-ip-address>TWAMP_HOSTNAME_T</sender-ip-address>
</session>
</sessions>
```

```
</session-reflector>
</light>
</twamp>
```

Command Syntax

```
(sender-ip|)
```

Configure sender udp port

Use this attribute to set the sender UDP Port

Attribute Name: sender-udp-port

Attribute Type: enum (0)

Default Value: 0

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<light>
<session-reflector>
<sessions>
<session>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
      <name>WORD</name>
   </config>
   <name>WORD</name>
   <sender-udp-port>0</sender-udp-port> <!-- operation="delete"-->
</session>
</sessions>
</session-reflector>
</light>
</twamp>
```

Command Syntax

```
(sender-port (0)|)
```

Configure options

Use this attribute to debug the twamp session

Attribute Name: options

Attribute Type: enum (twamp)

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<debug>
<config>
   <options>twamp</options> <!-- operation="delete"-->
```

```
</config>
</debug>
</twamp>
```

Command Syntax

```
debug (twamp)
```

Configure port

Use this attribute to set Server TCP Port

Attribute Name: port

Attribute Type: union

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<server>
<config>
   <port>862</port> <!-- operation="delete"-->
</config>
</server>
</twamp>
```

Command Syntax

```
port (862|<1025-65535>)
```

Configure max connection duration

Set the maximum connection duration in hours, 0 to disable

Attribute Name: max-connection-duration

Attribute Type: uint8

Attribute Range: 0-120

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<server>
<config>
   <max-connection-duration>0</max-connection-duration> <!-- operation="delete"-->
</config>
</server>
</twamp>
```

Command Syntax

```
max-connection-duration <0-120>
```

Configure max connections

Set the maximum connections

Attribute Name: max-connections

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <server>
   <config>
      <max-connections>1</max-connections> <!-- operation="delete"-->
   </config>
   </server>
   </twamp>
```

Command Syntax

```
    max-connections <1-32>
```

Configure max connections per client

Set the maximum number of connections per client

Attribute Name: max-connections-per-client

Attribute Type: uint8

Attribute Range: 1-4

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <server>
   <config>
      <max-connections-per-client>1</max-connections-per-client> <!--
operation="delete"-->
   </config>
   </server>
   </twamp>
```

Command Syntax

```
    max-connections-per-client <1-4>
```

Configure maximum sessions

Set the maximum number of test sessions for the server

Attribute Name: maximum-sessions

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <server>
```

```
   <config>
      <maximum-sessions>1</maximum-sessions> <!-- operation="delete"-->
   </config>
   </server>
   </twamp>
```

Command Syntax

```
    maximum-sessions <1-2000>
```

Configure maximum sessions per connection

Set the maximum number of test sessions per client connection

Attribute Name: maximum-sessions-per-connection

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <server>
   <config>
      <maximum-sessions-per-connection>1</maximum-sessions-per-connection> <!--
operation="delete"-->
   </config>
   </server>
   </twamp>
```

Command Syntax

```
    maximum-sessions-per-connection <1-2000>
```

Configure inactivity timeout

Set the control packet idle timeout value in minutes, 0 to disable

Attribute Name: inactivity-timeout

Attribute Type: uint8

Attribute Range: 0-30

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <server>
   <config>
      <inactivity-timeout>0</inactivity-timeout> <!-- operation="delete"-->
   </config>
   </server>
   </twamp>
```

Command Syntax

```
    inactivity-timeout <0-30>
```

Configure server vrf-name

Use this attribute to add a custom vrf to the list of VRFs where the twamp server is listening

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<server>
<config>
   <vrf-name>NAME</vrf-name> <!-- operation="delete"-->
</config>
</server>
</twamp>
```

Command Syntax

```
listen-vrf NAME
```

Configure admin enable

Enables TWAMP Server

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<server>
<admin>
<config>
   </enable>
</config>
</admin>
</server>
</twamp>
```

Command Syntax

```
twamp server
```

Configure admin administrative-state

Sets TWAMP Server administrative state

Attribute Name: administrative-state

Attribute Type: enum (disable|enable)

Default Value: disable

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<server>
<admin>
<config>
   <administrative-state>disable</administrative-state> <!-- operation="delete"-->
</config>
</admin>
</server>
</twamp>
```

Command Syntax

```
server-admin-state (disable|enable)
```

twamp start test-session WORD packet-count <1-65535> (interval <500-10000>|) (delay-threshold <0-1000000>|)

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: packet-count

Attribute Type: uint16

Attribute Range: 1-65535

Attribute Name: packet-interval

Attribute Type: uint16

Default Value: 1000

Attribute Range: 500-10000

Attribute Name: delay-threshold

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-1000000

Netconf RPC payload

```
      <twamp-test-session-start xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
twamp">
      <session-name>WORD</session-name>
      <packet-count>1</packet-count>
      <packet-interval>1000</packet-interval>
      <delay-threshold>0</delay-threshold>
      </twamp-test-session-start>
```

Command Syntax

```
twamp start test-session WORD packet-count <1-65535> (interval <500-10000>|)
  (delay-threshold <0-1000000>|)
```

twamp stop test-session WORD

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-128

Netconf RPC payload

```
<twamp-test-session-stop xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<session-name>WORD</session-name>
</twamp-test-session-stop>
```

Command Syntax

```
twamp stop test-session WORD
```

debug (twamp)

Attribute Name: terminal-debug-options

Attribute Type: enum (twamp)

Netconf RPC payload

```
<twamp-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<terminal-debug-options>twamp</terminal-debug-options>
</twamp-terminal-debug-on>
```

Command Syntax

```
debug (twamp)
```

no debug (twamp)

Attribute Name: terminal-debug-options

Attribute Type: enum (twamp)

Netconf RPC payload

```
<twamp-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
twamp">
<terminal-debug-options>twamp</terminal-debug-options>
</twamp-terminal-debug-off>
```

Command Syntax

```
no debug (twamp)
```

IPI-ROLE-BASED-ACCESS-CONTROL

Configure policy name

Use this attribute to create a TACACS+ Role-Based Authorization (RBAC) policy and enter RBAC policy mode.

Attribute Name: policy-name

Attribute Type: string

Attribute Range: 2-16

Netconf edit-config payload

```
   <role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
   <policies>
   <policy> <!-- operation="delete"-->
      <policy-name>POLICY-NAME</policy-name>
      <config>
         <policy-name>POLICY-NAME</policy-name>
      </config>
   </policy>
   </policies>
   </role-based-access-control>
```

Command Syntax

```
 policy POLICY-NAME
```

Configure command mode

Attribute to specify the mode in which CLI should be allowed/denied. Command prompt string such as 'config-router' or 'config-if', deny/Permit access to the command only in this mode.

Attribute Name: command-mode

Attribute Type: string

Attribute Name: rule-type

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
   <role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
   <policies>
   <policy>
      <policy-name>POLICY-NAME</policy-name>
      <config>
         <policy-name>POLICY-NAME</policy-name>
      </config>
   <rules>
   <rule>
      <rule-name>RULE-STRING</rule-name>
      <config>
         <rule-name>RULE-STRING</rule-name>
         <rule-type>deny</rule-type> <!-- operation="delete"-->
      </config>
         <command-mode>MODE-NAME</command-mode> <!-- operation="delete"-->
   </rule>
   </rules>
```

```
</policy>
</policies>
</role-based-access-control>
```

Command Syntax

```
(deny|permit) RULE-STRING mode MODE-NAME
```

Configure rule name

This attribute specifies rule string configured as regex-expression for cli authorization

Attribute Name: rule-name

Attribute Type: string

Attribute Range: 3-255

Attribute Name: rule-type

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-based-access-control">
<policies>
<policy>
   <policy-name>POLICY-NAME</policy-name>
   <config>
      <policy-name>POLICY-NAME</policy-name>
   </config>
<rules>
<rule>
   <rule-name>RULE-STRING</rule-name>
   <config>
      <rule-name>RULE-STRING</rule-name>
      <rule-type>deny</rule-type>
   </config>
</rule>
</rules>
</policy>
</policies>
</role-based-access-control>
```

Command Syntax

```
(deny|permit) RULE-STRING
```

Configure rule type

Attribute to specify the mode in which CLI should be allowed/denied. Command prompt string such as ’config-router’ or ’config-if’, deny/Permit access to the command only in this mode.

Attribute Name: command-mode

Attribute Type: string

Attribute Name: rule-type

Attribute Type: enum (deny|permit)

Netconf edit-config payload

```
   <role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
   <policies>
   <policy>
      <policy-name>POLICY-NAME</policy-name>
      <config>
         <policy-name>POLICY-NAME</policy-name>
      </config>
   <rules>
   <rule>
      <rule-name>RULE-STRING</rule-name>
      <config>
         <rule-name>RULE-STRING</rule-name>
         <rule-type>deny</rule-type>
      </config>
         <command-mode>MODE-NAME</command-mode>
   </rule>
   </rules>
   </policy>
   </policies>
   </role-based-access-control>
```

Command Syntax

```
    (deny|permit) RULE-STRING mode MODE-NAME
```

Configure role name

Use this attribute to create a TACACS+ Role-Based Authorization (RBAC) role and to switch to RBAC role mode. End-user cannot specify one of these roles already defined in OcNOS: network-admin network-user network-operator network-engineer For more about these built-in roles, see 'username' CLI configuration

Attribute Name: role-name

Attribute Type: string

Attribute Range: 2-16

Netconf edit-config payload

```
   <role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-
based-access-control">
   <roles>
   <role> <!-- operation="delete"-->
      <role-name>ROLE-NAME</role-name>
      <config>
         <role-name>ROLE-NAME</role-name>
      </config>
   </role>
   </roles>
```

```
</role-based-access-control>
```

Command Syntax

```
role ROLE-NAME
```

Configure default policy

Use this atribute to set the default rule for a TACACS+ Role-Based Access Control (RBAC) role.

Attribute Name: default-policy

Attribute Type: enum (deny-all|permit-all)

Default Value: deny-all

Netconf edit-config payload

```
<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-based-access-control">
<roles>
<role>
   <role-name>ROLE-NAME</role-name>
   <config>
      <role-name>ROLE-NAME</role-name>
   </config>
   <default-policy>deny-all</default-policy> <!-- operation="delete"-->
</role>
</roles>
</role-based-access-control>
```

Command Syntax

```
default (deny-all|permit-all)
```

Configure policies policy-name

Use this attribute to add a policy to a TACACS+ Role-based Access Control (RBAC) role

Attribute Name: policy-name

Attribute Type: string

Attribute Range: 2-16

Netconf edit-config payload

```
<role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-based-access-control">
<roles>
<role>
   <role-name>ROLE-NAME</role-name>
   <config>
      <role-name>ROLE-NAME</role-name>
   </config>
<policies>
<policy> <!-- operation="delete"-->
   <policy-name>POLICY-NAME</policy-name>
```

```
      <config>
         <policy-name>POLICY-NAME</policy-name>
      </config>
   </policy>
   </policies>
   </role>
   </roles>
   </role-based-access-control>
```

Command Syntax

```
    add policy POLICY-NAME
```

Configure enable

Enable or disable the TACAS+ Role-Based Access Control of RBAC feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <role-based-access-control xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-role-based-access-control">
   <config>
      </enable><!-- operation="delete"-->
   </config>
   </role-based-access-control>
```

Command Syntax

```
    feature dynamic-rbac
```

IPI-PORT-BREAKOUT

Configure interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
   <port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
   <breakouts>
   <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
```

```
      <config>
         <interface>WORD</interface>
         <mode>4X10g</mode>
      </config>
   </breakout>
   </breakouts>
   </port-breakout>
```

Command Syntax

```
 port IFNAME breakout
   (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|1X200g|4X50g)
```

Configure mode

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Attribute Name: serdes

Attribute Type: enum (25g|50g|100g)

Netconf edit-config payload

```
   <port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
   <breakouts>
   <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
         <interface>WORD</interface>
         <mode>4X10g</mode>
         <serdes>25g</serdes>
      </config>
   </breakout>
   </breakouts>
   </port-breakout>
```

Command Syntax

```
 port IFNAME breakout (2X100g|1X100g) (serdes (25g)|)
```

Configure serdes

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Attribute Name: serdes

Attribute Type: enum (25g|50g|100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
   <interface>IFNAME</interface>
   <config>
      <interface>WORD</interface>
      <mode>4X10g</mode>
      <serdes>25g</serdes>
   </config>
</breakout>
</breakouts>
</port-breakout>
```

Command Syntax

```
 port IFNAME breakout (2X100g|1X100g) serdes (25g|50g|100g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Attribute Name: serdes

Attribute Type: enum (25g|50g|100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
   <interface>IFNAME</interface>
   <config>
      <interface>WORD</interface>
      <mode>4X10g</mode>
      <serdes>25g</serdes>
   </config>
</breakout>
```

```
</breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (4X100g|2X200g|3X100g|1X200g|1X400g) serdes (50g|100g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
   <interface>IFNAME</interface>
   <config>
      <interface>WORD</interface>
      <mode>4X10g</mode>
   </config>
</breakout>
</breakouts>
</port-breakout>
```

Command Syntax

```
port IFNAME breakout (4X10g|4X25g|2X50g|4X100g|2X200g|3X100g|1X200g|4X50g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
   <interface>IFNAME</interface>
```

```
      <config>
         <interface>WORD</interface>
         <mode>4X10g</mode>
      </config>
   </breakout>
   </breakouts>
   </port-breakout>
```

Command Syntax

```
 port IFNAME breakout
   (2X50g|8X50g|4X50g|3X200g|4X200g|2X400g|8X100g|7X100g|6X100g|5X100g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
   <port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
   <breakouts>
   <breakout> <!-- operation="delete"-->
      <interface>IFNAME</interface>
      <config>
         <interface>WORD</interface>
         <mode>4X10g</mode>
      </config>
   </breakout>
   </breakouts>
   </port-breakout>
```

Command Syntax

```
 port IFNAME breakout (4X10g|4X25g|2X50g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
   <interface>IFNAME</interface>
   <config>
      <interface>WORD</interface>
      <mode>4X10g</mode>
   </config>
</breakout>
</breakouts>
</port-breakout>
```

Command Syntax

```
 port IFNAME breakout (1X40g)
```

Configure breakouts interface

Name of the interface to breakout

Attribute Name: interface

Attribute Type: string

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g|4X100g|8X50g|8X25g|8X10g|2X200g|3X100g|2X100g|1X100g|1X200g|4X50g|1X40g|3X200g|4X200g|1X400g|2X400g|8X100g|7X100g|6X100g|5X100g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<breakouts>
<breakout> <!-- operation="delete"-->
   <interface>IFNAME</interface>
   <config>
      <interface>WORD</interface>
      <mode>4X10g</mode>
   </config>
</breakout>
</breakouts>
</port-breakout>
```

Command Syntax

```
 port <1-128> breakout (4X10g|4X25g|2X50g)
```

Configure name

Use this attribute to configure Port-breakout mode for an interface

Attribute Name: mode

Attribute Type: enum (4X10g|4X25g|2X50g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <mode>4X10g</mode> <!-- operation="delete"-->
</interface>
</interfaces>
</port-breakout>
```

Command Syntax

```
port breakout enable (4X10g|4X25g|2X50g)
```

IPI-PCEP

Configure entity id

PCEP Entity ID.

Attribute Name: entity-id

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity> <!-- operation="delete"-->
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
</entity>
</entities>
</pcep>
```

Command Syntax

```
pce configuration <1-255>
```

Configure keep alive interval

This attribute is used to set the keep alive transmission timer that this PCEP entity will propose in the initial OPEN message of each session it is involved in. This is the maximum time between two consecutive messages sent to a peer. Zero means that the PCEP entity prefers not to send Keepalives at all.

Attribute Name: keep-alive-interval

Attribute Type: uint8

Default Value: 30

Attribute Range: 0-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <keep-alive-interval>0</keep-alive-interval> <!-- operation="delete"-->
</entity>
</entities>
</pcep>
```

Command Syntax

```
keepalive <0-255>
```

Configure dead interval

This attribute is used to set the dead timer that this PCEP entity will propose in the initial OPEN message of each session it is involved in. This is the time after which a peer should declare a session down if it does not receive any PCEP messages.

Attribute Name: dead-interval

Attribute Type: uint8

Default Value: 120

Attribute Range: 1-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <dead-interval>1</dead-interval> <!-- operation="delete"-->
</entity>
</entities>
</pcep>
```

Command Syntax

```
deadtimer <1-255>
```

Configure request timeout

This attribute is used to set the maximum time that the PCEP entity will wait for a response to a PCReq message.

Attribute Name: request-timeout

Attribute Type: uint16

Default Value: 10

Attribute Range: 1-20

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <request-timeout>1</request-timeout> <!-- operation="delete"-->
</entity>
</entities>
</pcep>
```

Command Syntax

```
request-timeout <1-20>
```

Configure tolerance keepalive

This attribute is used to set the tolerance value for keep-alive timer.

Attribute Name: tolerance-keepalive

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <tolerance-keepalive>1</tolerance-keepalive> <!-- operation="delete"-->
</entity>
</entities>
</pcep>
```

Command Syntax

```
tolerance keepalive <1-255>
```

Configure tolerance dead interval

This attribute is used to set the tolerance value for dead interval timer.

Attribute Name: tolerance-dead-interval

Attribute Type: uint32

Attribute Range: 1-255

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <tolerance-dead-interval>1</tolerance-dead-interval> <!-- operation="delete"-->
</entity>
</entities>
</pcep>
```

Command Syntax

```
 tolerance deadtimer <1-255>
```

Configure cool off timeout

This attribute is used to set Flap dampening time.

Attribute Name: cool-off-timeout

Attribute Type: int32

Attribute Range: 1-300

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <cool-off-timeout>1</cool-off-timeout> <!-- operation="delete"-->
</entity>
</entities>
</pcep>
```

Command Syntax

```
 cool-off-timeout <1-300>
```

Configure source address

This attribute is used to configure the local Internet address of this PCEP entity. If operating as a PCE server, the PCEP entity listens on this address. If operating as a PCC, the PCEP entity binds outgoing TCP connections to this address. It is possible for the PCEP entity to operate both as a PCC and a PCE Server, in which case it uses this address both to listen for incoming TCP connections and to bind outgoing TCP connections.

Attribute Name: source-address

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <source-address>CML_IP_ADDR_T</source-address>
</entity>
</entities>
</pcep>
```

Command Syntax

```
update-source (A.B.C.D|X:X::X:X)
```

Configure recovery policy

This attribute is used to configure delegation recovery policy.

Attribute Name: recovery-policy

Attribute Type: enum (local-control|removal)

Default Value: removal

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
   <recovery-policy>removal</recovery-policy> <!-- operation="delete"-->
</entity>
</entities>
</pcep>
```

Command Syntax

```
delegation-recovery policy (local-control|removal)
```

Configure segment routing v6

This attribute is used to enable segment-routing ipv6 capability.

Attribute Name: segment-routing-v6

Attribute Type: empty

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
<capability>
<config>
      </segment-routing-v6><!-- operation="delete"-->
</config>
</capability>
</entity>
</entities>
</pcep>
```

Command Syntax

```
 segment-routing srv6 pcep
```

Configure pce instantiate

This attribute is used to enable PCE-initiated LSP capability.

Attribute Name: pce-instantiate

Attribute Type: empty

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
<capability>
<config>
      </pce-instantiate><!-- operation="delete"-->
</config>
</capability>
</entity>
</entities>
</pcep>
```

Command Syntax

```
pce instantiation
```

Configure segment routing

This attribute is used to enable segment-routing capability.

Attribute Name: segment-routing

Attribute Type: empty

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
<capability>
<config>
      </segment-routing><!-- operation="delete"-->
</config>
</capability>
</entity>
</entities>
</pcep>
```

Command Syntax

```
segment-routing pcep
```

Configure redelegation timeout

This attribute is used to set the time period a PCC waits before revoking LSP delegation to a PCE and attempting to redelegate LSPs associated with the terminated PCEP session to an alternate PCE.

Attribute Name: redelegation-timeout

Attribute Type: uint32

Default Value: 60

Attribute Range: 1-600

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
<stateful>
```

```
<config>
       <redelegation-timeout>1</redelegation-timeout> <!-- operation="delete"-->
</config>
</stateful>
</entity>
</entities>
</pcep>
```

Command Syntax

```
redelegation-timeout <1-600>
```

Configure lsp state timeout

This attribute is used to set the time period a PCC waits before flushing LSP state associated with the terminated PCEP session and reverting to operator-defined default parameters or behaviours.

Attribute Name: lsp-state-timeout

Attribute Type: union

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
<stateful>
<config>
       <lsp-state-timeout>PCEP_LSP_STATE_TIMEOUT_T</lsp-state-timeout>
</config>
</stateful>
</entity>
</entities>
</pcep>
```

Command Syntax

```
lsp-state-timeout (infinity|<1-600>)
```

Configure flap interval

This attribute is used to set the flap interval time.

Attribute Name: flap-interval

Attribute Type: int32

Attribute Range: 10-36000

Attribute Name: flap-count

Attribute Type: int32

Attribute Range: 10-1000

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
<flap-limit>
<config>
       <flap-count>10</flap-count>
       <flap-interval>10</flap-interval>
</config>
</flap-limit>
</entity>
</entities>
</pcep>
```

Command Syntax

```
 flap-limit <10-1000> <10-36000>
```

Configure interval

This attribute is used to set time unit for updates dampening.

Attribute Name: interval

Attribute Type: int32

Attribute Range: 10-36000

Attribute Name: count

Attribute Type: int32

Attribute Range: 1-1000

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
<entity>
   <entity-id>1</entity-id>
   <config>
      <entity-id>1</entity-id>
   </config>
<update-limit>
<config>
       <count>1</count> <!-- operation="delete"-->
       <interval>10</interval> <!-- operation="delete"-->
</config>
</update-limit>
```

```
</entity>
</entities>
</pcep>
```

Command Syntax

```
update-limit <1-1000> <10-36000>
```

Configure lsp limit

This attribute is used to set the starting Tunnel-id range for the PCE initiated LSP.

Attribute Name: lsp-limit

Attribute Type: uint32

Attribute Range: 1-1048575

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<init-lsp-limit>
<config>
   <lsp-limit>1</lsp-limit>
</config>
</init-lsp-limit>
</pcep>
```

Command Syntax

```
pce init-lsp-limit <1-1048575>
```

Configure options

This attribute is used to enable/disable PCEP debug logs.

Attribute Name: options

Attribute Type: bits (events|error|packet|timer|update|report|instantiation|delegation|request|all)

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<debug>
<config>
   <options>events</options> <!-- operation="delete"-->
</config>
</debug>
</pcep>
```

Command Syntax

```
debug pcep
  (events|error|packet|timer|update|report|instantiation|delegation|request|all|)
```

Configure srv6 spirent comp

This attribute is used to enable/disable PCEP SRv6 spirent TLV value compliance.

Attribute Name: srv6-spirent-comp

Attribute Type: empty

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<srv6-spirent-comp>
<config>
   </srv6-spirent-comp><!-- operation="delete"-->
</config>
</srv6-spirent-comp>
</pcep>
```

Command Syntax

```
pcep srv6 spirent controller compliance
```

debug pcep (events|error|packet|timer|update|report|instantiation|delegation|request|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|error|packet|timer|update|report|instantiation|delegation|request|all)

Netconf RPC payload

```
<pcep-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<terminal-debug-options>events</terminal-debug-options>
</pcep-terminal-debug-on>
```

Command Syntax

```
debug pcep
  (events|error|packet|timer|update|report|instantiation|delegation|request|all|)
```

no debug pcep (events|error|packet|timer|update|report|instantiation|delegation|request|all|)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|error|packet|timer|update|report|instantiation|delegation|request|all)

Netconf RPC payload

```
<pcep-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<terminal-debug-options>events</terminal-debug-options>
</pcep-terminal-debug-off>
```

Command Syntax

```
no debug pcep
  (events|error|packet|timer|update|report|instantiation|delegation|request|all|)
```

clear pcep request (<5001-65535>|all)

Attribute Name: tunnel-id

Attribute Type: string

Netconf RPC payload

```
<clear-pcep-requests xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<tunnel-id>5001</tunnel-id>
</clear-pcep-requests>
```

Command Syntax

```
clear pcep request (<5001-65535>|all)
```

IPI-PCEP-PEER

Configure address

The local Internet address of this PCEP peer.

Attribute Name: address

Attribute Type: union

Netconf edit-config payload

```
<pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
<entities>
   <entity>
      <entity-id>1</entity-id>
      <config>
         <entity-id>1</entity-id>
      </config>
      <peers>
      <peer> <!-- operation="delete"-->
         <address>PCEP_IP_ADDR_T</address>
         <config>
            <address>PCEP_IP_ADDR_T</address>
         </config>
      </peer>
   </peers>
</entity>
</entities>
</pcep>
```

Command Syntax

```
peer-address (ipv4 A.B.C.D|ipv6 X:X::X:X)
```

Configure delegation preference

The PCE peer delegation preference.

Attribute Name: delegation-preference

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
   <pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
   <entities>
      <entity>
         <entity-id>1</entity-id>
         <config>
            <entity-id>1</entity-id>
         </config>
         <peers>
         <peer>
            <address>PCEP_IP_ADDR_T</address>
            <config>
               <address>PCEP_IP_ADDR_T</address>
            </config>
               <delegation-preference>1</delegation-preference> <!--
operation="delete"-->
         </peer>
      </peers>
   </entity>
   </entities>
   </pcep>
```

Command Syntax

```
    peer-address delegation-priority <1-65535>
```

Configure authentication key

The authentication option.

Attribute Name: authentication-key

Attribute Type: string

Netconf edit-config payload

```
   <pcep xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-pcep">
   <entities>
      <entity>
         <entity-id>1</entity-id>
         <config>
            <entity-id>1</entity-id>
         </config>
         <peers>
         <peer>
```

```
            <address>PCEP_IP_ADDR_T</address>
            <config>
               <address>PCEP_IP_ADDR_T</address>
            </config>
               <authentication-key>WORD</authentication-key> <!-- operation="delete"-
->
         </peer>
      </peers>
   </entity>
   </entities>
   </pcep>
```

Command Syntax

```
    peer-address md5 WORD
```

clear pcep peer *

Netconf RPC payload

```
      <ipi-pcep-peer_clear-pcep-peer-all xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-pcep"/>
```

Command Syntax

```
    clear pcep peer *
```

clear pcep peer (A.B.C.D|X:X::X:X)

Attribute Name: address

Attribute Type: inet:ip-address

Netconf RPC payload

```
      <ipi-pcep-peer_clear-pcep-peer xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
pcep">
      <address>CML_IP_ADDR_T</address>
      </ipi-pcep-peer_clear-pcep-peer>
```

Command Syntax

```
    clear pcep peer (A.B.C.D|X:X::X:X)
```

clear pcep statistics

Netconf RPC payload

```
      <ipi-pcep-peer_clear-pcep-statistics xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-pcep"/>
```

Command Syntax

```
    clear pcep statistics
```

IPI-SOURCE-INTERFACE

Configure vrf name

VRF to apply the source-interface.

This command is supported when following feature are enabled hostp feature

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
   <source-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-source-
interface">
   <address-family-ipv4>
   <source-nat-mappings>
   <source-nat-mapping>
      <vrf-name>NAME</vrf-name>
      <config>
         <vrf-name>NAME</vrf-name>
         <port-number>49</port-number>
         <protocol-type>tacacs+</protocol-type>
         <interface-name>WORD</interface-name>
      </config>
      <port-number>49</port-number>
      <protocol-type>tacacs+</protocol-type>
      <interface-name>IFNAME</interface-name>
   </source-nat-mapping>
   </source-nat-mappings>
   </address-family-ipv4>
   </source-interface>
```

Command Syntax

```
    ip source-interface IFNAME (tacacs+|ntp|snmp|syslog|radius) (port
      (49|123|162|514|1812|<1025-65535>)|) (vrf (NAME|management)|)
```

Configure interface name

VRF to apply the source-interface.

This command is supported when following feature are enabled IPV6 feature,hostp feature

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
   <source-interface xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-source-
interface">
   <address-family-ipv6>
   <source-nat-mappings>
```

```
<source-nat-mapping>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>NAME</vrf-name>
      <port-number>49</port-number>
      <protocol-type>tacacs+</protocol-type>
      <interface-name>WORD</interface-name>
   </config>
   <port-number>49</port-number>
   <protocol-type>tacacs+</protocol-type>
   <interface-name>IFNAME</interface-name>
</source-nat-mapping>
</source-nat-mappings>
</address-family-ipv6>
</source-interface>
```

Command Syntax

```
ipv6 source-interface IFNAME (tacacs+|ntp|snmp|syslog|radius) (port
  (49|123|162|514|1812|<1025-65535>)|) (vrf (NAME|management)|)
```

IPI-TACACS

Configure feature enable

Use this attribute to enable the TACACS+ feature

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: feature-enable

Attribute Type: empty

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
   </feature-enable>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
feature tacacs+ (vrf (management|NAME)|)
```

Configure key type

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
      <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
   </config>
   <key-type>0</key-type> <!-- operation="delete"-->
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
 tacacs-server login key (0|7) WORD (vrf (management|NAME)|)
```

Configure vrf name

VRF Name associated with this instance

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: timeout

Attribute Type: uint8

Default Value: 5

Attribute Range: 1-60

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
      <timeout>1</timeout> <!-- operation="delete"-->
```

```
    </config>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login timeout <1-60> (vrf (management|NAME)|)
```

Configure host address

Use this attribute to set the TACACS+ server host name or IP address

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: host-address

Attribute Type: union

Attribute Range: 1-63

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server> <!-- operation="delete"-->
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number>
    </config>
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8>
```

Configure sequence number

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
      <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
   </config>
      <key-type>0</key-type> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD
```

Configure port

Port number used for TACACS+ Server Connection

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
   </config>
<remote-servers>
<server>
   <host-address>A.B.C.D</host-address>
   <config>
      <host-address>A.B.C.D</host-address>
      <sequence-number>1</sequence-number> <!-- operation="delete"-->
   </config>
      <port>1025</port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> port <1025-65535>
```

Configure timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: timeout

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
   <vrf-name>management</vrf-name>
   <config>
      <vrf-name>management</vrf-name>
```

```
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
    </config>
        <timeout>1</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> timeout <1-60>
```

Configure server timeout

To represent the timeout configured by the user

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: timeout

Attribute Type: uint32

Default Value: 5

Attribute Range: 1-60

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
```

```
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <port>1025</port> <!-- operation="delete"-->
    </config>
        <timeout>1</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> port <1025-65535> timeout <1-60>
```

Configure secret key string

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
        <port>1025</port> <!-- operation="delete"-->
```

```
    </config>
       <key-type>0</key-type> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD port <1025-65535>
```

Configure server key-type

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: timeout

Attribute Type: uint32

Attribute Range: 1-60

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
       <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
       <host-address>A.B.C.D</host-address>
       <sequence-number>1</sequence-number> <!-- operation="delete"-->
       <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
       <timeout>1</timeout> <!-- operation="delete"-->
    </config>
       <key-type>0</key-type> <!-- operation="delete"-->
</server>
```

```
</remote-servers>
</vrf>
</vrfs>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD timeout <1-60>
```

Configure server key-type

Authentication key value

This command is supported when following feature are enabled hostp feature,aaa feature,tacacs-client feature

Attribute Name: key-type

Attribute Type: enum (0|7)

Attribute Name: sequence-number

Attribute Type: uint8

Attribute Range: 1-8

Attribute Name: secret-key-string

Attribute Type: string

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

Attribute Name: timeout

Attribute Type: uint32

Attribute Range: 1-60

Netconf edit-config payload

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<vrfs>
<vrf>
    <vrf-name>management</vrf-name>
    <config>
        <vrf-name>management</vrf-name>
    </config>
<remote-servers>
<server>
    <host-address>A.B.C.D</host-address>
    <config>
        <host-address>A.B.C.D</host-address>
        <sequence-number>1</sequence-number> <!-- operation="delete"-->
        <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
        <port>1025</port> <!-- operation="delete"-->
        <timeout>1</timeout> <!-- operation="delete"-->
    </config>
```

```
        <key-type>0</key-type> <!-- operation="delete"-->
   </server>
   </remote-servers>
   </vrf>
   </vrfs>
   </tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf (management|NAME)|) seq-
  num <1-8> key (0|7) WORD port <1025-65535> timeout <1-60>
```

Configure enable

This attribute is to enable/disable TACACS+ debug logging

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
   <tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
   <debug>
   <config>
      </enable><!-- operation="delete"-->
   </config>
   </debug>
   </tacacs>
```

Command Syntax

```
debug tacacs+
```

clear tacacs-server counters (vrf (management|NAME|all)|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <clear-all-tacacs-server-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-tacacs">
       <vrf-name>management</vrf-name>
       </clear-all-tacacs-server-counters>
```

Command Syntax

```
clear tacacs-server counters (vrf (management|NAME|all)|)
```

clear tacacs-server (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf (management|NAME|all)|)

Attribute Name: hostname

Attribute Type: union

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <clear-tacacs-server-host-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-tacacs">
       <hostname>A.B.C.D</hostname>
       <vrf-name>management</vrf-name>
       </clear-tacacs-server-host-counters>
```

Command Syntax

```
    clear tacacs-server (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf
      (management|NAME|all)|)
```

debug tacacs+

Netconf RPC payload

```
       <tacacs-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
tacacs"/>
```

Command Syntax

```
    debug tacacs+
```

no debug tacacs+

Netconf RPC payload

```
       <tacacs-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
tacacs"/>
```

Command Syntax

```
    no debug tacacs+
```

IPI-TIME-RANGE

Configure name

Time range name to be configured

Attribute Name: name

Attribute Type: string

Attribute Range: 1-60

Netconf edit-config payload

```
   <time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
   <time-range> <!-- operation="delete"-->
```

```
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
</time-range>
</time-ranges>
```

Command Syntax

```
 time-range WORD
```

Configure absolute start time

Start time hour and minute

Attribute Name: absolute-start-time

Attribute Type: string

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
<time-range>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<start-time-options>
<config>
       <absolute-start-time>TIME_RANGE_DATE_TIME_T</absolute-start-time>
</config>
</start-time-options>
</time-range>
</time-ranges>
```

Command Syntax

```
 start-time HH:MM:SS <01-31> MONTH <1995-2035>
```

Configure relative start time

Configure the start-time of the time-range to be now or after sometime

Attribute Name: relative-start-time

Attribute Type: union

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
<time-range>
    <name>WORD</name>
    <config>
        <name>WORD</name>
    </config>
<start-time-options>
```

```
<config>
       <relative-start-time>TIME_RANGE_RELATIVE_TIME_T</relative-start-time>
</config>
</start-time-options>
</time-range>
</time-ranges>
```

Command Syntax

```
start-time (after (<1-129600>)|now)
```

Configure absolute end time

End time hour and minute

Attribute Name: absolute-end-time

Attribute Type: string

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
<time-range>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<end-time-options>
<config>
       <absolute-end-time>TIME_RANGE_DATE_TIME_T</absolute-end-time>
</config>
</end-time-options>
</time-range>
</time-ranges>
```

Command Syntax

```
end-time HH:MM:SS <01-31> MONTH <1995-2035>
```

Configure relative end time

Relative time in minutes

Attribute Name: relative-end-time

Attribute Type: string

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
<time-range>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<end-time-options>
```

```
<config>
       <relative-end-time>1</relative-end-time> <!-- operation="delete"-->
</config>
</end-time-options>
</time-range>
</time-ranges>
```

Command Syntax

```
 end-time after <1-129600>
```

Configure frequency

Frequency (hourly, daily, weekly)

Attribute Name: frequency

Attribute Type: union

Netconf edit-config payload

```
<time-ranges xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-time-range">
<time-range>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<frequency-options>
<config>
       <frequency>daily</frequency> <!-- operation="delete"-->
</config>
</frequency-options>
</time-range>
</time-ranges>
```

Command Syntax

```
 frequency (daily|hourly|weekly|days WORD)
```

IPI-CRYPTO

Configure key encryption

Use this attribute to set the system global encryption algorithm

Attribute Name: key-encryption

Attribute Type: enum (3des|aes)

Netconf edit-config payload

```
<crypto xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-crypto">
<global>
<config>
```

```
    <key-encryption>3des</key-encryption> <!-- operation="delete"-->
</config>
</global>
</crypto>
```

Command Syntax

```
global key-encryption (3des|aes)
```

crypto pki generate rsa common-name ipv4 IPv4ADDR

Attribute Name: ipv4-addr

Attribute Type: inet:ipv4-address

Netconf RPC payload

```
<crypto-rsa-key-gen xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-crypto">
<ipv4-addr>IPv4ADDR</ipv4-addr>
</crypto-rsa-key-gen>
```

Command Syntax

```
crypto pki generate rsa common-name ipv4 IPv4ADDR
```

crypto pki load (source-interface IFNAME|) WORD

Attribute Name: source-interface

Attribute Type: string

Attribute Range: 1-49

Attribute Name: url

Attribute Type: inet:uri

Netconf RPC payload

```
<crypto-rsa-load-cert xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-crypto">
<source-interface>IFNAME</source-interface>
<url>WORD</url>
</crypto-rsa-load-cert>
```

Command Syntax

```
crypto pki load (source-interface IFNAME|) WORD
```

IPI-IP-SLA

Configure identifier

Use this attribute to set the IPSLA.

Attribute Name: identifier

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
<processes>
<process> <!-- operation="delete"-->
   <identifier>1</identifier>
   <config>
      <identifier>1</identifier>
   </config>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
 ip sla <1-65535>
```

Configure host

Use this attribute to set the ICMP Echo host name or IP address.

Attribute Name: host

Attribute Type: union

Attribute Name: source-interface

Attribute Type: string

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
<processes>
<process>
   <identifier>1</identifier>
   <config>
      <identifier>1</identifier>
   </config>
<icmp-echo-processes>
<icmp-echo-process> <!-- operation="delete"-->
   <host>IP_SLA_HOSTNAME_T</host>
   <config>
      <host>IP_SLA_HOSTNAME_T</host>
      <source-interface>IFNAME</source-interface>
   </config>
</icmp-echo-process>
</icmp-echo-processes>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
icmp-echo (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (source-interface IFNAME|)
```

Configure source ip

Use this attribute to set the ICMP Echo host name or IP address.

Attribute Name: host

Attribute Type: inet:ipv4-address

Attribute Name: source-ip

Attribute Type: inet:ip-address

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
<processes>
<process>
   <identifier>1</identifier>
   <config>
      <identifier>1</identifier>
   </config>
<icmp-echo-processes>
<icmp-echo-process> <!-- operation="delete"-->
   <host>IP_SLA_HOSTNAME_T</host>
   <config>
      <host>IP_SLA_HOSTNAME_T</host>
      <source-ip>CML_IP_ADDR_T</source-ip>
   </config>
</icmp-echo-process>
</icmp-echo-processes>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
icmp-echo (source-ip (A.B.C.D|X:X::X:X)|)
```

Configure frequency

The frequency (interval) correlates to how often the ICMP packet is sent. The unit of this parameter is in seconds.

Attribute Name: frequency

Attribute Type: uint8

Attribute Range: 1-60

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
<processes>
<process>
```

```
    <identifier>1</identifier>
    <config>
        <identifier>1</identifier>
    </config>
<icmp-echo-processes>
<icmp-echo-process>
    <host>IP_SLA_HOSTNAME_T</host>
    <config>
        <host>IP_SLA_HOSTNAME_T</host>
    </config>
        <frequency>1</frequency> <!-- operation="delete"-->
</icmp-echo-process>
</icmp-echo-processes>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
 frequency <1-60>
```

Configure timeout

The timeout value correlates to how long the Ping application will wait for the response after sending packets ICMP Echo packets.

Attribute Name: timeout

Attribute Type: uint16

Attribute Range: 1000-60000

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
<processes>
<process>
    <identifier>1</identifier>
    <config>
        <identifier>1</identifier>
    </config>
<icmp-echo-processes>
<icmp-echo-process>
    <host>IP_SLA_HOSTNAME_T</host>
    <config>
        <host>IP_SLA_HOSTNAME_T</host>
    </config>
        <timeout>1000</timeout> <!-- operation="delete"-->
</icmp-echo-process>
</icmp-echo-processes>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
timeout <1000-60000>
```

Configure threshold

The threshold value correlates to the limit the administrator sets as what would be a successful test. Threshold can be configured in milli-seconds.

Attribute Name: threshold

Attribute Type: uint16

Attribute Range: 1000-60000

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
<processes>
<process>
   <identifier>1</identifier>
   <config>
      <identifier>1</identifier>
   </config>
<icmp-echo-processes>
<icmp-echo-process>
   <host>IP_SLA_HOSTNAME_T</host>
   <config>
      <host>IP_SLA_HOSTNAME_T</host>
   </config>
      <threshold>1000</threshold> <!-- operation="delete"-->
</icmp-echo-process>
</icmp-echo-processes>
</process>
</processes>
</ip-sla>
```

Command Syntax

```
threshold <1000-60000>
```

Configure vrf name

VRF name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<ip-sla xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-sla">
<scheduled-processes>
<scheduled-process>
   <time-range-name>WORD</time-range-name>
   <config>
```

```
         <time-range-name>WORD</time-range-name>
         <scheduled-pid>1</scheduled-pid>
      </config>
      <scheduled-pid>1</scheduled-pid>
      <vrf-name>NAME</vrf-name>
   </scheduled-process>
   </scheduled-processes>
   </ip-sla>
```

Command Syntax

```
ip sla schedule <1-65535> time-range WORD (vrf NAME|)
```

clear ip sla statistics (<1-65535>|)

Attribute Name: identifier

Attribute Type: uint16

Attribute Range: 1-65535

Netconf RPC payload

```
      <ip-sla-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ip-
sla">
      <identifier>1</identifier>
      </ip-sla-clear-statistics>
```

Command Syntax

```
clear ip sla statistics (<1-65535>|)
```

IPI-SERVICE-MAP

Configure name

Name for the tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
   <service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
   <tunnel-policies>
   <tunnel-policy> <!-- operation="delete"-->
      <name>NAME</name>
      <config>
         <name>WORD</name>
      </config>
```

```
</tunnel-policy>
</tunnel-policies>
</service-map>
```

Command Syntax

```
tunnel-policy NAME
```

Configure color code

Use this attribute to configure color for tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: color-code

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
<tunnel-policies>
<tunnel-policy>
   <name>NAME</name>
   <config>
      <name>WORD</name>
   </config>
   <color-code>1</color-code> <!-- operation="delete"-->
</tunnel-policy>
</tunnel-policies>
</service-map>
```

Command Syntax

```
color <1-4294967295>
```

Configure selection mode

Use this attribute to configure selection mode as dedicated or best-effort for tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: selection-mode

Attribute Type: enum (dedicated|best-effort)

Default Value: dedicated

Netconf edit-config payload

```
<service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
<tunnel-policies>
<tunnel-policy>
   <name>NAME</name>
   <config>
      <name>WORD</name>
```

```
    </config>
    <selection-mode>dedicated</selection-mode> <!-- operation="delete"-->
</tunnel-policy>
</tunnel-policies>
</service-map>
```

Command Syntax

```
mode (dedicated|best-effort)
```

Configure tunnel type

Use this attribute to configure selection mode as sr or srv6 or rsvp for tunnel policy

This command is supported when following feature are enabled SERVICE MAPPING feature

Attribute Name: tunnel-type

Attribute Type: enum (rsvp|sr-mpls|srv6)

Netconf edit-config payload

```
<service-map xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-service-map">
<tunnel-policies>
<tunnel-policy>
    <name>NAME</name>
    <config>
        <name>WORD</name>
    </config>
    <tunnel-type>rsvp</tunnel-type> <!-- operation="delete"-->
</tunnel-policy>
</tunnel-policies>
</service-map>
```

Command Syntax

```
tunnel-type (rsvp|sr-mpls|srv6)
```

IPI-CROSS-CONNECT

Configure xc name

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

Attribute Name: instance-name

Attribute Type: string

Attribute Name: xc-name

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>cross-connect</instance-type>
      <config>
         <instance-type>cross-connect</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <cross-connect>
   <config>
      <xc-name>WORD</xc-name>
   </config>
   </cross-connect>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 cross-connect WORD
```

Configure description

This attribute specifies the description for cross-connect

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>cross-connect</instance-type>
      </config>
         <instance-type>cross-connect</instance-type>
      <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
      <config>
            <description>LINE</description> <!-- operation="delete"-->
      </config>
   </cross-connect>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 description LINE
```

Configure admin disable

This attribute is used to temporarily shutdown the cross-connect

Attribute Name: admin-disable

Attribute Type: empty

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>cross-connect</instance-type>
      </config>
         <instance-type>cross-connect</instance-type>
      <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
      <config>
            </admin-disable><!-- operation="delete"-->
      </config>
   </cross-connect>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 disable
```

Configure endpoint if

This attribute specifies the endpoint for cross-connect

This command is supported when following feature are disabled subinterface feature

Attribute Name: endpoint-if

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>cross-connect</instance-type>
      </config>
         <instance-type>cross-connect</instance-type>
      <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
      <cross-connect-interfaces>
      <cross-connect-interface> <!-- operation="delete"-->
```

```
          <endpoint-if>IFNAME</endpoint-if>
          <config>
             <endpoint-if>WORD</endpoint-if>
          </config>
       </cross-connect-interface>
   </cross-connect-interfaces>
   </cross-connect>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 interface IFNAME
```

Configure endpoint if bkp

This attribute specifies the backup endpoint for cross-connect

This command is supported when following feature are disabled subinterface feature

Attribute Name: endpoint-if-bkp

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>cross-connect</instance-type>
      </config>
         <instance-type>cross-connect</instance-type>
      <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
      <cross-connect-interfaces>
      <cross-connect-interface>
         <endpoint-if>IFNAME</endpoint-if>
         <config>
            <endpoint-if>WORD</endpoint-if>
         </config>
            <endpoint-if-bkp>IFBKPNAME</endpoint-if-bkp> <!-- operation="delete"-->
      </cross-connect-interface>
   </cross-connect-interfaces>
   </cross-connect>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 backup IFBKPNAME
```

Configure evc name

Ethernet virtual connection ID

This command is supported when following feature are disabled subinterface feature

Attribute Name: evc-name

Attribute Type: string

Attribute Range: 1-100

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>cross-connect</instance-type>
      </config>
         <instance-type>cross-connect</instance-type>
      <cross-connect xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-cross-connect">
      <cross-connect-interfaces>
      <cross-connect-interface>
         <endpoint-if>IFNAME</endpoint-if>
         <config>
            <endpoint-if>WORD</endpoint-if>
         </config>
            <evc-name>EVCID</evc-name> <!-- operation="delete"-->
      </cross-connect-interface>
   </cross-connect-interfaces>
   </cross-connect>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 g8031-eps EVCID
```

IPI-BRIDGE-DOMAIN

Configure domain id

Network Instance Name. For VRF and MAC VRF, instance name can be up to 32 chars long. For VPWS and VPLS instances, instance name can be up to 128 chars long. For L2NI (bridge) instance, instance name has to be a number between (1-32). For Cross-Connect, instance name can be up to 30 chars long. For Bridge-domain, instance, instance name has to be a number between (1-2147483647).

This command is supported when following feature are enabled HAVE_SUBINTERFACE and following feature are disabled HAVE_CUSTOM1_SUBINTERFACE,HAVE_SWFWDR

Attribute Name: instance-name

Attribute Type: string

Attribute Name: domain-id

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance> <!-- operation="delete"-->
      <instance-type>bridge-domain</instance-type>
      <config>
         <instance-type>bridge-domain</instance-type>
         <instance-name>WORD</instance-name>
      </config>
      <instance-name>WORD</instance-name>
   <bridge-domain>
   <config>
      <domain-id>WORD</domain-id>
   </config>
   </bridge-domain>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 bridge-domain <1-2147483647>
```

Configure description

This attribute secifies the description for bridge domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>bridge-domain</instance-type>
      </config>
         <instance-type>bridge-domain</instance-type>
      <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <config>
            <description>LINE</description> <!-- operation="delete"-->
      </config>
   </bridge-domain>
```

```
   </network-instance>
   </network-instances>
```

Command Syntax

```
    description LINE
```

Configure route interface

This attribute specifies the Logical L3 BVI interface for bridge-domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: route-interface

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>bridge-domain</instance-type>
      </config>
         <instance-type>bridge-domain</instance-type>
      <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <config>
            <route-interface>IFNAME</route-interface> <!-- operation="delete"-->
      </config>
   </bridge-domain>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    routed-interface IFNAME
```

Configure bridge id

Map bridge mst instance to bridge-domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: bridge-id

Attribute Type: string

Attribute Name: instance-id

Attribute Type: uint8

Attribute Range: 1-63

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>bridge-domain</instance-type>
      </config>
         <instance-type>bridge-domain</instance-type>
      <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <bridge-instance>
      <config>
            <instance-id>1</instance-id>
            <bridge-id>1</bridge-id>
      </config>
   </bridge-instance>
   </bridge-domain>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 stp-instance <1-63> bridge <1-32>
```

Configure instance id

Value of instance id

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: instance-id

Attribute Type: uint8

Attribute Range: 1-63

Attribute Name: bridge-id

Attribute Type: string

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>bridge-domain</instance-type>
      </config>
         <instance-type>bridge-domain</instance-type>
      <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <bridge-instance>
      <config>
```

```
            <bridge-id>1</bridge-id>
            <instance-id>1</instance-id>
       </config>
   </bridge-instance>
   </bridge-domain>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 stp-instance <1-63> bridge <1-32>
```

Configure name

This attribute specifies the subif for bridge-domain

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>bridge-domain</instance-type>
      </config>
         <instance-type>bridge-domain</instance-type>
      <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <member-interfaces>
      <member-interface> <!-- operation="delete"-->
         <name>IFNAME</name>
         <config>
            <name>WORD</name>
         </config>
      </member-interface>
   </member-interfaces>
   </bridge-domain>
   </network-instance>
   </network-instances>
```

Command Syntax

```
 interface IFNAME
```

Configure mac address

Use this attribute to configure the static forwarding table MAC entry for the bridge

This command is supported when following feature are enabled subinterface feature and following feature are disabled DC and DC-LTSW subinterface feature support,HAVE_SWFWDR feature is enabled

Attribute Name: mac-address

Attribute Type: string

Attribute Name: action

Attribute Type: enum (deny|forward)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf edit-config payload

```
   <network-instances xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-network-
instance">
   <network-instance>
      <instance-name>WORD</instance-name>
      <config>
         <instance-name>WORD</instance-name>
         <instance-type>vrf</instance-type>
      </config>
         <instance-type>bridge-domain</instance-type>
      <bridge-domain xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-bridge-domain">
      <bridge-domain-mac-table>
      <static-entry> <!-- operation="delete"-->
         <mac-address>XXXX.XXXX.XXXX</mac-address>
         <config>
            <mac-address>CML_MAC_ADDR_T</mac-address>
            <action>deny</action>
            <interface-name>IFNAME</interface-name>
         </config>
      </static-entry>
   </bridge-domain-mac-table>
   </bridge-domain>
   </network-instance>
   </network-instances>
```

Command Syntax

```
    mac XXXX.XXXX.XXXX (deny|forward) IFNAME
```

clear mac address-table dynamic bridge-domain all

Netconf RPC payload

```
      <clear-bridge-domain-mac-address-all-table xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-bridge-domain"/>
```

Command Syntax

```
clear mac address-table dynamic bridge-domain all
```

clear mac address-table dynamic bridge-domain id <1-2147483647> (interface IFNAME|) (address MACADDR|)

Attribute Name: bridge-domain

Attribute Type: string

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
       <clear-bridge-domain-mac-address-table xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-bridge-domain">
       <bridge-domain>id 1</bridge-domain>
       <interface-name>IFNAME</interface-name>
       <mac-address>MACADDR</mac-address>
       </clear-bridge-domain-mac-address-table>
```

Command Syntax

```
clear mac address-table dynamic bridge-domain id <1-2147483647> (interface IFNAME|)
  (address MACADDR|)
```

IPI-OBJECT-TRACKING

Configure tracker id

Use this attribute for Object Tracking id.

Attribute Name: tracker-id

Attribute Type: uint16

Attribute Name: delay-up

Attribute Type: uint16

Attribute Range: 1-9999

Netconf edit-config payload

```
   <object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
   <trackers>
   <tracker>
      <tracker-id>1</tracker-id>
      <config>
```

```
        <tracker-id>1</tracker-id>
        <delay-up>1</delay-up>
    </config>
</tracker>
</trackers>
</object-tracking>
```

Command Syntax

```
delay up <1-9999>
```

Configure delay down

Use this attribute for Object Tracking id.

Attribute Name: tracker-id

Attribute Type: uint16

Attribute Name: delay-down

Attribute Type: uint16

Attribute Range: 1-9999

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
<trackers>
<tracker>
    <tracker-id>1</tracker-id>
    <config>
        <tracker-id>1</tracker-id>
        <delay-down>1</delay-down>
    </config>
</tracker>
</trackers>
</object-tracking>
```

Command Syntax

```
delay down <1-9999>
```

Configure delay up

Use this attribute for Object Tracking id.

Attribute Name: tracker-id

Attribute Type: uint16

Attribute Name: delay-up

Attribute Type: uint16

Attribute Range: 1-9999

Attribute Name: delay-down

Attribute Type: uint16

Attribute Range: 1-9999

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
<trackers>
<tracker>
   <tracker-id>1</tracker-id>
   <config>
      <tracker-id>1</tracker-id>
      <delay-up>1</delay-up>
      <delay-down>1</delay-down>
   </config>
</tracker>
</trackers>
</object-tracking>
```

Command Syntax

```
 delay up <1-9999> down <1-9999>
```

Configure select option

object tracking options

Attribute Name: select-option

Attribute Type: enum (all|any)

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
   <select-option>all</select-option> <!-- operation="delete"-->
</interface>
</interfaces>
</object-tracking>
```

Command Syntax

```
 object-tracking (all|any)
```

Configure track id

Use this attribute for Object Tracking id.

Attribute Name: track-id

Attribute Type: uint32

Attribute Range: 1-500

Netconf edit-config payload

```
<object-tracking xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-object-tracking">
<interfaces>
<interface>
   <name>WORD</name>
   <config>
      <name>WORD</name>
   </config>
<track-interfaces>
<track-interface> <!-- operation="delete"-->
   <track-id>1</track-id>
   <config>
      <track-id>1</track-id>
   </config>
</track-interface>
</track-interfaces>
</interface>
</interfaces>
</object-tracking>
```

Command Syntax

```
object-tracking <1-500>
```

IPI-DELAY-PROFILE

Configure profile type

The profile type for delay

Attribute Name: profile-type

Attribute Type: enum (interfaces)

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile> <!-- operation="delete"-->
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
delay-profile (interfaces)
```

Configure mode

Set the measurement mode

Attribute Name: mode

Attribute Type: enum (one-way|two-way)

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<profile-parameters>
<config>
       <mode>one-way</mode> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
mode (one-way|two-way)
```

Configure sender port

Configure the computation interval

Attribute Name: sender-port

Attribute Type: uint16

Attribute Range: 1025-65535

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<profile-parameters>
<config>
       <sender-port>1025</sender-port> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
sender-port <1025-65535>
```

Configure burst interval

Configure the burst-interval

Attribute Name: burst-interval

Attribute Type: uint16

Attribute Range: 1000-15000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<profile-parameters>
<config>
       <burst-interval>1000</burst-interval> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
 burst-interval <1000-15000>
```

Configure burst count

Configure the burst-count

Attribute Name: burst-count

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<profile-parameters>
<config>
       <burst-count>1</burst-count> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
burst-count <1-10>
```

Configure interval

Configure the computation interval

Attribute Name: interval

Attribute Type: uint16

Attribute Range: 30-3600

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<profile-parameters>
<config>
      <interval>30</interval> <!-- operation="delete"-->
</config>
</profile-parameters>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
interval <30-3600>
```

Configure disable

Disable the periodic advertisement

Attribute Name: disable

Attribute Type: uint8

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<periodic-advertisement>
<config>
      </disable><!-- operation="delete"-->
</config>
</periodic-advertisement>
</delay-profile>
```

```
</delay-profiles>
```

Command Syntax

```
no advertisement periodic
```

Configure threshold

Configure the periodic advertisement threshold

Attribute Name: threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<periodic-advertisement>
<config>
      <threshold>1</threshold> <!-- operation="delete"-->
</config>
</periodic-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement periodic threshold <1-100>
```

Configure minimum change

Configure the advertisement minimum-change in microseconds (default=1000)

Attribute Name: minimum-change

Attribute Type: uint16

Attribute Range: 0-10000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<periodic-advertisement>
<config>
      <minimum-change>0</minimum-change> <!-- operation="delete"-->
```

```
</config>
</periodic-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement periodic minimum-change <0-10000>
```

Configure enable

Enable the accelerated advertisement

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<accelerated-advertisement>
<config>
      </enable>
</config>
</accelerated-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement accelerated
```

Configure accelerated-advertisement threshold

Configure the accelerated advertisement threshold

Attribute Name: threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<accelerated-advertisement>
```

```
<config>
       <threshold>1</threshold> <!-- operation="delete"-->
</config>
</accelerated-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement accelerated threshold <1-100>
```

Configure accelerated-advertisement minimum-change

Configure the advertisement minimum-change in microseconds (default=1000)

Attribute Name: minimum-change

Attribute Type: uint16

Attribute Range: 0-10000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<accelerated-advertisement>
<config>
       <minimum-change>0</minimum-change> <!-- operation="delete"-->
</config>
</accelerated-advertisement>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
advertisement accelerated minimum-change <0-10000>
```

Configure enabled

Enable the notifications for advertising via NETCONF/SNMP Traps when thresholds are crossed

This command is supported when following feature are enabled Traffic Engineering

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
```

```
        <profile-type>interfaces</profile-type>
     </config>
<notifications>
<config>
       </enabled>
</config>
</notifications>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
 notification enabled
```

Configure notifications threshold

Configure the notifications advertisement threshold

This command is supported when following feature are enabled Traffic Engineering

Attribute Name: threshold

Attribute Type: uint8

Attribute Range: 1-100

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
    <profile-type>interfaces</profile-type>
    <config>
        <profile-type>interfaces</profile-type>
    </config>
<notifications>
<config>
       <threshold>1</threshold> <!-- operation="delete"-->
</config>
</notifications>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
 notification threshold <1-100>
```

Configure notifications minimum-change

Configure the notifications advertisement minimum-change in microseconds (default=1000)

This command is supported when following feature are enabled Traffic Engineering

Attribute Name: minimum-change

Attribute Type: uint16

Attribute Range: 0-10000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile>
   <profile-type>interfaces</profile-type>
   <config>
      <profile-type>interfaces</profile-type>
   </config>
<notifications>
<config>
      <minimum-change>0</minimum-change> <!-- operation="delete"-->
</config>
</notifications>
</delay-profile>
</delay-profiles>
```

Command Syntax

```
notification minimum-change <0-10000>
```

Configure delay profile enable

Enables TWAMP Client delay profile

Attribute Name: delay-profile-enable

Attribute Type: empty

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile-clients>
<config>
   </delay-profile-enable>
</config>
</delay-profile-clients>
</delay-profiles>
```

Command Syntax

```
delay-profile clients
```

Configure delay-profile-clients burst-interval

Configure the burst-interval

Attribute Name: burst-interval

Attribute Type: uint16

Attribute Range: 1000-15000

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile-clients>
<config>
```

```
    <burst-interval>1000</burst-interval> <!-- operation="delete"-->
</config>
</delay-profile-clients>
</delay-profiles>
```

Command Syntax

```
 burst-interval <1000-15000>
```

Configure delay-profile-clients burst-count

Configure the burst-count

Attribute Name: burst-count

Attribute Type: uint8

Attribute Range: 1-10

Netconf edit-config payload

```
<delay-profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-delay-profile">
<delay-profile-clients>
<config>
    <burst-count>1</burst-count> <!-- operation="delete"-->
</config>
</delay-profile-clients>
</delay-profiles>
```

Command Syntax

```
 burst-count <1-10>
```

IPI-ELK

Configure password

Use this to configure ELK server password

Attribute Name: password

Attribute Type: string

Attribute Name: username

Attribute Type: string

Netconf edit-config payload

```
<elk xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-elk">
<metricbeats>
<metricbeat>
    <ip>A.B.C.D</ip>
    <config>
        <ip>A.B.C.D</ip>
        <username>USERNAME</username> <!-- operation="delete"-->
```

```
      </config>
      <password>PASSWORD</password> <!-- operation="delete"-->
   </metricbeat>
   </metricbeats>
   </elk>
```

Command Syntax

```
    elk server metricbeat A.B.C.D username USERNAME password PASSWORD
```

Configure certificate path

Used to configure Filebeat server path to certificate file

Attribute Name: certificate-path

Attribute Type: string

Netconf edit-config payload

```
   <elk xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-elk">
   <filebeats>
   <filebeat>
      <ip>A.B.C.D</ip>
      <config>
         <ip>A.B.C.D</ip>
      </config>
      <certificate-path>FILE-PATH</certificate-path> <!-- operation="delete"-->
   </filebeat>
   </filebeats>
   </elk>
```

Command Syntax

```
    elk server filebeat A.B.C.D FILE-PATH
```

service enable metricbeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
      <elk-metricbeat-service-enable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
elk">
      <vrf-name>management</vrf-name>
      </elk-metricbeat-service-enable>
```

Command Syntax

```
    service enable metricbeat (vrf management|)
```

service enable filebeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <elk-filebeat-service-enable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
elk">
       <vrf-name>management</vrf-name>
       </elk-filebeat-service-enable>
```

Command Syntax

```
     service enable filebeat (vrf management|)
```

service disable metricbeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <elk-metricbeat-service-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
elk">
       <vrf-name>management</vrf-name>
       </elk-metricbeat-service-disable>
```

Command Syntax

```
     service disable metricbeat (vrf management|)
```

service disable filebeat (vrf management|)

Attribute Name: vrf-name

Attribute Type: string

Netconf RPC payload

```
       <elk-filebeat-service-disable xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
elk">
       <vrf-name>management</vrf-name>
       </elk-filebeat-service-disable>
```

Command Syntax

```
     service disable filebeat (vrf management|)
```

IPI-IPSEC

Configure transform set name

IPsec transform-set name

This command is supported when following feature are enabled IPsec feature

Attribute Name: transform-set-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<transform-sets>
<transform-set> <!-- operation="delete"-->
   <transform-set-name>NAME</transform-set-name>
   <config>
      <transform-set-name>NAME</transform-set-name>
   </config>
</transform-set>
</transform-sets>
</ipsec>
```

Command Syntax

```
crypto ipsec transform-set NAME
```

Configure transform set mode

This attribute is used to configure mode for a transform-set.

This command is supported when following feature are enabled IPsec feature

Attribute Name: transform-set-mode

Attribute Type: enum (transport)

Default Value: transport

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<transform-sets>
<transform-set>
   <transform-set-name>NAME</transform-set-name>
   <config>
      <transform-set-name>NAME</transform-set-name>
   </config>
   <transform-set-mode>transport</transform-set-mode> <!-- operation="delete"-->
</transform-set>
</transform-sets>
</ipsec>
```

Command Syntax

```
crypto ipsec transform-set NAME mode (transport)
```

Configure ah authentication

This attribute configures IPsec AH authentication type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: ah-authentication

Attribute Type: enum (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-sha512)

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<transform-sets>
<transform-set>
   <transform-set-name>NAME</transform-set-name>
   <config>
      <transform-set-name>NAME</transform-set-name>
   </config>
<ah-auth>
<config>
       <ah-authentication>none</ah-authentication> <!-- operation="delete"-->
</config>
</ah-auth>
</transform-set>
</transform-sets>
</ipsec>
```

Command Syntax

```
crypto ipsec transform-set NAME ah (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-
  sha512)
```

Configure ah-auth ah-authentication

This attribute configures IPsec AH authentication type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: ah-authentication

Attribute Type: enum (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-sha512)

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<transform-sets>
<transform-set>
   <transform-set-name>NAME</transform-set-name>
   <config>
      <transform-set-name>NAME</transform-set-name>
   </config>
<ah-auth>
<config>
       <ah-authentication>none</ah-authentication> <!-- operation="delete"-->
</config>
</ah-auth>
</transform-set>
</transform-sets>
</ipsec>
```

Command Syntax

```
crypto ipsec transform-set NAME ah (none|ah-md5|ah-sha1|ah-sha256|ah-sha384|ah-
  sha512)
```

Configure esp encryption

This attribute configures IPsec ESP encryption type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: esp-encryption

Attribute Type: enum (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-blf256|esp-aes|esp-aes192|esp-aes256)

Attribute Name: esp-authentication

Attribute Type: enum (none|esp-md5|esp-sha1|esp-sha256|esp-sha384|esp-sha512)

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<transform-sets>
<transform-set>
   <transform-set-name>NAME</transform-set-name>
   <config>
      <transform-set-name>NAME</transform-set-name>
   </config>
<esp-auth>
<config>
      <esp-authentication>none</esp-authentication>
      <esp-encryption>esp-null</esp-encryption>
</config>
</esp-auth>
</transform-set>
</transform-sets>
</ipsec>
```

Command Syntax

```
crypto ipsec transform-set NAME esp-auth (none|esp-md5|esp-sha1|esp-sha256|esp-
  sha384|esp-sha512) esp-enc (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-
  blf256|esp-aes|esp-aes192|esp-aes256)
```

Configure esp authentication

This attribute configures IPsec ESP authentication type.

This command is supported when following feature are enabled IPsec feature

Attribute Name: esp-authentication

Attribute Type: enum (none|esp-md5|esp-sha1|esp-sha256|esp-sha384|esp-sha512)

Attribute Name: esp-encryption

Attribute Type: enum (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-blf256|esp-aes|esp-aes192|esp-aes256)

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<transform-sets>
<transform-set>
   <transform-set-name>NAME</transform-set-name>
   <config>
      <transform-set-name>NAME</transform-set-name>
   </config>
<esp-auth>
<config>
       <esp-encryption>esp-null</esp-encryption>
       <esp-authentication>none</esp-authentication>
</config>
</esp-auth>
</transform-set>
</transform-sets>
</ipsec>
```

Command Syntax

```
crypto ipsec transform-set NAME esp-auth (none|esp-md5|esp-sha1|esp-sha256|esp-
  sha384|esp-sha512) esp-enc (esp-null|esp-3des|esp-cast|esp-blf|esp-blf192|esp-
  blf256|esp-aes|esp-aes192|esp-aes256)
```

Configure name

IPsec Crypto Map name

This command is supported when following feature are enabled IPsec feature

Attribute Name: name

Attribute Type: string

Attribute Range: 1-127

Attribute Name: sa-type

Attribute Type: enum (ipsec-manual)

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<crypto-maps>
<crypto-map> <!-- operation="delete"-->
   <name>MAP-NAME</name>
   <config>
      <name>WORD</name>
      <sa-type>ipsec-manual</sa-type>
   </config>
</crypto-map>
</crypto-maps>
</ipsec>
```

Command Syntax

```
crypto map MAP-NAME (ipsec-manual)
```

Configure sequence id

Map sequence-id

This command is supported when following feature are enabled IPsec feature

Attribute Name: sequence-id

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<crypto-maps>
<crypto-map>
   <name>MAP-NAME</name>
   <config>
      <name>WORD</name>
   </config>
<sessions>
<session> <!-- operation="delete"-->
   <sequence-id>1</sequence-id>
   <config>
      <sequence-id>1</sequence-id>
   </config>
</session>
</sessions>
</crypto-map>
</crypto-maps>
</ipsec>
```

Command Syntax

```
sequence <1-65535>
```

Configure transform-sets transform-set-name

Map session transform-set name

This command is supported when following feature are enabled IPsec feature

Attribute Name: transform-set-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<crypto-maps>
<crypto-map>
```

```
    <name>MAP-NAME</name>
    <config>
        <name>WORD</name>
    </config>
<sessions>
<session>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <transform-sets>
    <transform-set> <!-- operation="delete"-->
        <transform-set-name>NAME</transform-set-name>
        <config>
            <transform-set-name>WORD</transform-set-name>
        </config>
    </transform-set>
</transform-sets>
</session>
</sessions>
</crypto-map>
</crypto-maps>
</ipsec>
```

Command Syntax

```
 set transform-set NAME
```

Configure peer

Map session peer IP address

This command is supported when following feature are enabled IPsec feature

Attribute Name: peer

Attribute Type: inet:ip-address

Attribute Name: spi

Attribute Type: uint16

Netconf edit-config payload

```
<ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
<crypto-maps>
<crypto-map>
    <name>MAP-NAME</name>
    <config>
        <name>WORD</name>
    </config>
<sessions>
<session>
    <sequence-id>1</sequence-id>
    <config>
```

```
        <sequence-id>1</sequence-id>
      </config>
      <peer-addresses>
      <peer-address> <!-- operation="delete"-->
        <peer>A.B.C.D</peer>
        <config>
          <peer>CML_IP_ADDR_T</peer>
          <spi>0</spi>
        </config>
      </peer-address>
  </peer-addresses>
  </session>
  </sessions>
  </crypto-map>
  </crypto-maps>
  </ipsec>
```

Command Syntax

```
set peer (A.B.C.D|X:X::X:X) (spi <0-4096>|)
```

Configure security parameter index

Crypto Map session key security parameter index (SPI)

This command is supported when following feature are enabled IPsec feature

Attribute Name: security-parameter-index

Attribute Type: uint16

Attribute Range: 0-4096

Attribute Name: cipher

Attribute Type: string

Attribute Range: 1-128

Attribute Name: authentication-key

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
  <ipsec xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ipsec">
  <crypto-maps>
  <crypto-map>
    <name>MAP-NAME</name>
    <config>
      <name>WORD</name>
    </config>
  <sessions>
  <session>
    <sequence-id>1</sequence-id>
    <config>
```

```
        <sequence-id>1</sequence-id>
      </config>
      <session-keys>
      <session-key> <!-- operation="delete"-->
         <security-parameter-index>0</security-parameter-index>
         <config>
            <security-parameter-index>0</security-parameter-index>
            <protocol>esp</protocol>
            <direction>inbound</direction>
            <cipher>HEX-KEY-DATA</cipher>
            <authentication-key>HEX-KEY-DATA</authentication-key>
         </config>
            <protocol>esp</protocol>
            <direction>inbound</direction>
      </session-key>
   </session-keys>
   </session>
   </sessions>
   </crypto-map>
   </crypto-maps>
   </ipsec>
```

Command Syntax

```
set session-key (inbound|outbound) (esp) <0-4096> cipher HEX-KEY-DATA authenticator
  HEX-KEY-DATA
```

IPI-EVPN-SRV6

Configure enabled

Use this attribute to enable EVPN-SRV6 module. Without this attribute evpn srv6 functionality can not be achieved

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<global>
<config>
   </enabled>
</config>
</global>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 enable
```

Configure vtep ipv6 address

Use this attribute to set source vtep global ip address. This will be treated at evpn srv6 tunnel source address

Attribute Name: vtep-ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<global>
<config>
   <vtep-ipv6-address>X:X::X:X</vtep-ipv6-address> <!-- operation="delete"-->
</config>
</global>
</evpn-srv6>
```

Command Syntax

```
 evpn srv6 ip-global X:X::X:X
```

Configure mac ageing timer

Use this attribute to set the time till a learned mac address will persist after last update

Attribute Name: mac-ageing-timer

Attribute Type: uint32

Attribute Range: 10-572

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<global>
<config>
   <mac-ageing-timer>10</mac-ageing-timer> <!-- operation="delete"-->
</config>
</global>
</evpn-srv6>
```

Command Syntax

```
 evpn srv6 mac-ageing-time <10-572>
```

Configure arp nd refresh time

Use this attribute to configure aging out the arp-cache and nd-cache entries

Attribute Name: arp-nd-refresh-time

Attribute Type: uint32

Attribute Range: 3-190

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
```

```
<arp-nd-global>
<config>
   <arp-nd-refresh-time>3</arp-nd-refresh-time> <!-- operation="delete"-->
</config>
</arp-nd-global>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 arp-nd refresh-timer <3-190>
```

Configure tenant identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<tenants>
<tenant> <!-- operation="delete"-->
   <tenant-identifier>1</tenant-identifier>
   <config>
      <tenant-identifier>1</tenant-identifier>
   </config>
</tenant>
</tenants>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 id <1-16777215>
```

Configure vpws identifier

Tenant Identifier

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: vpws-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<tenants>
<tenant>
```

```
    <tenant-identifier>1</tenant-identifier>
    <config>
        <tenant-identifier>1</tenant-identifier>
        <vpws-identifier>1</vpws-identifier>
    </config>
</tenant>
</tenants>
</evpn-srv6>
```

Command Syntax

```
evpn srv6 id <1-16777215> xconnect target-srv6-id <1-16777215>
```

Configure vrf name

Use this attribute to map vrf to carry EVPN routes

Attribute Name: vrf-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<tenants>
<tenant>
    <tenant-identifier>1</tenant-identifier>
    <config>
        <tenant-identifier>1</tenant-identifier>
    </config>
    <vrf-name>VRF-NAME</vrf-name> <!-- operation="delete"-->
</tenant>
</tenants>
</evpn-srv6>
```

Command Syntax

```
host-reachability-protocol evpn-bgp VRF-NAME
```

Configure mac holdtime

Use this attribute to set the time a host mac entry will persist after unconfig

Attribute Name: mac-holdtime

Attribute Type: int32

Default Value: 0

Attribute Range: -1-300

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<tenants>
<tenant>
```

```
    <tenant-identifier>1</tenant-identifier>
    <config>
       <tenant-identifier>1</tenant-identifier>
    </config>
    <mac-holdtime>-1</mac-holdtime> <!-- operation="delete"-->
</tenant>
</tenants>
</evpn-srv6>
```

Command Syntax

```
 mac-holdtime <-1-300>
```

Configure tenant description

Use this attribute to set evpn-srv6 tenant identifier name

Attribute Name: tenant-description

Attribute Type: string

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<tenants>
<tenant>
    <tenant-identifier>1</tenant-identifier>
    <config>
       <tenant-identifier>1</tenant-identifier>
    </config>
    <tenant-description>WORD</tenant-description> <!-- operation="delete"-->
</tenant>
</tenants>
</evpn-srv6>
```

Command Syntax

```
 evi-name WORD
```

Configure tunnel policy name

Transport Tunnel Selection Policy

Attribute Name: tunnel-policy-name

Attribute Type: string

Attribute Range: 1-127

Netconf edit-config payload

```
<evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
<tenants>
<tenant>
    <tenant-identifier>1</tenant-identifier>
    <config>
```

```
        <tenant-identifier>1</tenant-identifier>
      </config>
      <tunnel-policy-name>WORD</tunnel-policy-name> <!-- operation="delete"-->
   </tenant>
   </tenants>
   </evpn-srv6>
```

Command Syntax

```
tunnel-select-policy WORD
```

Configure srv6 locator name

Locator name

Attribute Name: srv6-locator-name

Attribute Type: string

Netconf edit-config payload

```
   <evpn-srv6 xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-evpn-srv6">
   <tenants>
   <tenant>
      <tenant-identifier>1</tenant-identifier>
      <config>
         <tenant-identifier>1</tenant-identifier>
      </config>
      <srv6-locator-name>WORD</srv6-locator-name> <!-- operation="delete"-->
   </tenant>
   </tenants>
   </evpn-srv6>
```

Command Syntax

```
locator WORD
```

clear mac address-table dynamic evpn-srv6

Netconf RPC payload

```
      <clear-nvo-srv6-dynamic-mac-address-table xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-evpn-srv6"/>
```

Command Syntax

```
clear mac address-table dynamic evpn-srv6
```

clear mac address-table dynamic evpn-srv6 evid <1-16777215> (address MACADDR|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: mac-address

Attribute Type: string

Netconf RPC payload

```
       <clear-nvo-srv6-dynamic-mac-address-table-evid xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-evpn-srv6">
       <tenant-identifier>1</tenant-identifier>
       <mac-address>MACADDR</mac-address>
       </clear-nvo-srv6-dynamic-mac-address-table-evid>
```

Command Syntax

```
    clear mac address-table dynamic evpn-srv6 evid <1-16777215> (address MACADDR|)
```

clear evpn srv6 counters (vpn-id <1-16777215>|) network (egress) (dst X:X::X:X|)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: egress-direction

Attribute Type: enum (egress)

Attribute Name: destination-ip

Attribute Type: inet:ipv6-address

Netconf RPC payload

```
       <clear-evpn-srv6-egress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-srv6">
       <tenant-identifier>1</tenant-identifier>
       <egress-direction>egress</egress-direction>
       <destination-ip>X:X::X:X</destination-ip>
       </clear-evpn-srv6-egress-counters>
```

Command Syntax

```
    clear evpn srv6 counters (vpn-id <1-16777215>|) network (egress) (dst X:X::X:X|)
```

clear evpn srv6 counters (vpn-id <1-16777215>|) network (ingress)

Attribute Name: tenant-identifier

Attribute Type: uint32

Attribute Range: 1-16777215

Attribute Name: ingress-direction

Attribute Type: enum (ingress)

Netconf RPC payload

```
       <clear-evpn-srv6-ingress-counters xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-evpn-srv6">
       <tenant-identifier>1</tenant-identifier>
       <ingress-direction>ingress</ingress-direction>
       </clear-evpn-srv6-ingress-counters>
```

Command Syntax

```
     clear evpn srv6 counters (vpn-id <1-16777215>|) network (ingress)
```

IPI-SEGMENT-ROUTING-ODN

Configure color

Color associated with ODN

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: color

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop> <!-- operation="delete"-->
         <color>1</color>
         <config>
            <color>1</color>
         </config>
      </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
     on-demand-nexthop <1-4294967295>
```

Configure flex algo

Flex algo value associated with ODN instance

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: flex-algo

Attribute Type: uint8

Attribute Range: 128-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
         <flex-algo>128</flex-algo> <!-- operation="delete"-->
   </on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 flex-algo <128-255>
```

Configure cspf retry limit

Limit on the number of times a dynamic candidate path will retry to calculate segment-list

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: cspf-retry-limit

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
         <cspf-retry-limit>1</cspf-retry-limit> <!-- operation="delete"-->
   </on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 cspf-retry-limit <1-65535>
```

Configure cspf retry interval

Interval between two successive retries for calculating segment list of a dynamic candidate path using CSPF

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: cspf-retry-interval

Attribute Type: uint16

Attribute Range: 1-600

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
            <cspf-retry-interval>1</cspf-retry-interval> <!-- operation="delete"-->
    </on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 cspf-retry-interval <1-600>
```

Configure binding sid label

Configurable Value for static binding SID

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: binding-sid-label

Attribute Type: uint16

Attribute Range: 16-15999

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
            <binding-sid-label>16</binding-sid-label> <!-- operation="delete"-->
    </on-demand-nexthop>
```

```
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
binding-sid mpls label <16-15999>
```

Configure fallback native sr

To enable fallback mechanism for flex-algorithm with Native-SR

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: fallback-native-sr

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
         </fallback-native-sr><!-- operation="delete"-->
   </on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
fallback native-sr
```

Configure fallback flex algo

To enable fallback mechanism for flex-algorithm with secondary flex-algo FTN

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: fallback-flex-algo

Attribute Type: uint8

Attribute Range: 128-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
```

```
        <color>1</color>
        <config>
           <color>1</color>
        </config>
           <fallback-flex-algo>128</fallback-flex-algo> <!-- operation="delete"-->
     </on-demand-nexthop>
  </on-demand-nexthops>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
 fallback flex-algo <128-255>
```

Configure discriminator

Candidate path distinguisher, it's taken as a unique identifier for a Local candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: discriminator

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
  <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
     <on-demand-nexthops>
     <on-demand-nexthop>
        <color>1</color>
        <config>
           <color>1</color>
        </config>
        <candidate-paths>
        <candidate-path> <!-- operation="delete"-->
           <originator>WORD</originator>
           <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
           </config>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
        </candidate-path>
     </candidate-paths>
  </on-demand-nexthop>
  </on-demand-nexthops>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
candidate-path <1-65535>
```

Configure preference

Candidate path preference

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: preference

Attribute Type: uint16

Default Value: 100

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <candidate-paths>
      <candidate-path>
         <originator>WORD</originator>
         <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
         </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
            <preference>1</preference> <!-- operation="delete"-->
      </candidate-path>
   </candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
preference <1-65535>
```

Configure pcep

Dynamic candidate path properties of PCEP

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pcep

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <candidate-paths>
      <candidate-path>
         <originator>WORD</originator>
         <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
         </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
         <dynamic>
         <config>
                </pcep><!-- operation="delete"-->
         </config>
      </dynamic>
   </candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
dynamic-path pcep
```

Configure isis instance id

Dynamic candidate path properties of ISIS

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: isis-instance-id

Attribute Type: string

Default Value: ""

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop>
         <color>1</color>
         <config>
            <color>1</color>
         </config>
         <candidate-paths>
         <candidate-path>
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            </config>
               <protocol-origin>pcep</protocol-origin>
               <discriminator>1</discriminator>
            <dynamic>
            <config>
                  <isis-instance-id>WORD</isis-instance-id> <!-- operation="delete"--
>
            </config>
         </dynamic>
      </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
    dynamic-path isis (WORD|)
```

Configure ospf process id

Dynamic candidate path properties of OSPF with process-id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: ospf-process-id

Attribute Type: int32

Attribute Range: 0-65535

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
```

```
    <on-demand-nexthop>
       <color>1</color>
       <config>
          <color>1</color>
       </config>
       <candidate-paths>
       <candidate-path>
          <originator>WORD</originator>
          <config>
             <originator>WORD</originator>
             <protocol-origin>local</protocol-origin>
             <discriminator>1</discriminator>
          </config>
             <protocol-origin>pcep</protocol-origin>
             <discriminator>1</discriminator>
          <dynamic>
          <config>
                <ospf-process-id>0</ospf-process-id> <!-- operation="delete"-->
          </config>
       </dynamic>
    </candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
dynamic-path ospf <0-65535>
```

Configure ospf empty

Dynamic candidate path properties of OSPF without process-id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: ospf-empty

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
       <color>1</color>
       <config>
          <color>1</color>
       </config>
       <candidate-paths>
       <candidate-path>
```

```
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            </config>
               <protocol-origin>pcep</protocol-origin>
               <discriminator>1</discriminator>
            <dynamic>
            <config>
                  </ospf-empty><!-- operation="delete"-->
            </config>
         </dynamic>
      </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
dynamic-path ospf
```

Configure enable

Enable constraints for the candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop>
         <color>1</color>
         <config>
            <color>1</color>
         </config>
         <candidate-paths>
         <candidate-path>
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            </config>
               <protocol-origin>local</protocol-origin>
```

```
            <discriminator>1</discriminator>
          <dynamic>
          <constraints>
          <config>
                </enable>
          </config>
        </constraints>
    </dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
constraints
```

Configure protocol origin

Enable constraints for the candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
        <candidate-paths>
        <candidate-path>
            <originator>WORD</originator>
            <config>
                <originator>WORD</originator>
                <protocol-origin>local</protocol-origin>
                <discriminator>1</discriminator>
            </config>
                <protocol-origin>pcep</protocol-origin>
                <discriminator>1</discriminator>
            <dynamic>
            <constraints>
            <config>
                  </enable>
```

```
            </config>
         </constraints>
      </dynamic>
   </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
enable
```

Configure hop limit

Use this attribute to specify a limit of hops for candidate-path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: hop-limit

Attribute Type: uint8

Attribute Range: 1-32

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop>
         <color>1</color>
         <config>
            <color>1</color>
         </config>
         <candidate-paths>
         <candidate-path>
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            </config>
               <protocol-origin>pcep</protocol-origin>
               <discriminator>1</discriminator>
            <dynamic>
            <constraints>
            <config>
                   <hop-limit>1</hop-limit> <!-- operation="delete"-->
            </config>
         </constraints>
      </dynamic>
```

```
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
hop-limit <1-32>
```

Configure metric type

Metric type can be IGP or TE

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: metric-type

Attribute Type: enum (igp|te|latency)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <candidate-paths>
      <candidate-path>
         <originator>WORD</originator>
         <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
         </config>
            <protocol-origin>pcep</protocol-origin>
            <discriminator>1</discriminator>
         <dynamic>
         <constraints>
         <bounds>
         <bound> <!-- operation="delete"-->
            <metric-type>igp</metric-type>
            <config>
               <metric-type>igp</metric-type>
            </config>
         </bound>
      </bounds>
   </constraints>
</dynamic>
```

```
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency)
```

Configure bound

Path is invalid if its metric exceeds this value, If no value is specified

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: bound

Attribute Type: uint32

Attribute Range: 1-4294967295

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
        <candidate-paths>
        <candidate-path>
            <originator>WORD</originator>
            <config>
                <originator>WORD</originator>
                <protocol-origin>local</protocol-origin>
                <discriminator>1</discriminator>
            </config>
                <protocol-origin>pcep</protocol-origin>
                <discriminator>1</discriminator>
            <dynamic>
            <constraints>
            <bounds>
            <bound>
                <metric-type>igp</metric-type>
                <config>
                    <metric-type>igp</metric-type>
                </config>
                    <bound>1</bound> <!-- operation="delete"-->
            </bound>
```

```
        </bounds>
      </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
metric-type (igp|te|latency) bound <1-4294967295>
```

Configure admin group name

admin group name

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: admin-group-name

Attribute Type: string

Attribute Name: affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <candidate-paths>
      <candidate-path>
         <originator>WORD</originator>
         <config>
            <originator>WORD</originator>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
         </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
         <dynamic>
         <constraints>
         <affinity-admin-groups>
         <affinity-admin-group> <!-- operation="delete"-->
            <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
            <config>
```

```
                    <admin-group-name>ADMIN-GROUP-NAME</admin-group-name>
                    <affinity-type>exclude-any</affinity-type>
                </config>
            </affinity-admin-group>
        </affinity-admin-groups>
    </constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
affinity (exclude-any|include-any|include-all) ADMIN-GROUP-NAME
```

Configure extended admin group name

extended-admin group name

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: extended-admin-group-name

Attribute Type: string

Attribute Name: extended-admin-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
        <color>1</color>
        <config>
            <color>1</color>
        </config>
        <candidate-paths>
        <candidate-path>
            <originator>WORD</originator>
            <config>
                <originator>WORD</originator>
                <protocol-origin>local</protocol-origin>
                <discriminator>1</discriminator>
            </config>
                <protocol-origin>local</protocol-origin>
                <discriminator>1</discriminator>
            <dynamic>
            <constraints>
```

```
            <affinity-extended-admin-groups>
            <affinity-extended-admin-group> <!-- operation="delete"-->
               <extended-admin-group-name>ADMIN-GROUP-NAME</extended-admin-group-
name>
               <config>
                  <extended-admin-group-name>EXTENDE-ADMIN-GROUP-NAME</extended-
admin-group-name>
                  <extended-admin-affinity-type>exclude-any</extended-admin-affinity-
type>
               </config>
            </affinity-extended-admin-group>
         </affinity-extended-admin-groups>
      </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
    extended-affinity (exclude-any|include-any|include-all) ADMIN-GROUP-NAME
```

Configure srlg group name

SRLG group name

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: srlg-group-name

Attribute Type: string

Attribute Name: srlg-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop>
         <color>1</color>
         <config>
            <color>1</color>
         </config>
         <candidate-paths>
         <candidate-path>
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
```

```
            <discriminator>1</discriminator>
         </config>
            <protocol-origin>local</protocol-origin>
            <discriminator>1</discriminator>
         <dynamic>
         <constraints>
         <srlg-groups>
         <srlg-group> <!-- operation="delete"-->
            <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
            <config>
               <srlg-group-name>SRLG-GROUP-NAME</srlg-group-name>
               <srlg-affinity-type>exclude-any</srlg-affinity-type>
            </config>
         </srlg-group>
      </srlg-groups>
   </constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
srlg-affinity (exclude-any|include-any|include-all) SRLG-GROUP-NAME
```

Configure address

Hop address which needs toincluded in the LSP

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: address

Attribute Type: inet:ip-address

Attribute Name: type

Attribute Type: enum (loose|strict)

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <candidate-paths>
      <candidate-path>
```

```
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            </config>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            <dynamic>
            <constraints>
            <ip>
            <include-hops>
            <include-hop> <!-- operation="delete"-->
               <address>A.B.C.D/X:X::X:X</address>
               <config>
                  <address>A.B.C.D/X:X::X:X</address>
                  <type>loose</type>
               </config>
            </include-hop>
         </include-hops>
      </ip>
   </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
A.B.C.D/X:X::X:X (loose|strict|)
```

Configure ihaf address

IP Hop address which needs to be included/excluded in the LSP path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: ihaf-address

Attribute Type: inet:ip-address

Attribute Name: ihaf-affinity-type

Attribute Type: enum (exclude-any|include-any|include-all)

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop>
```

```
        <color>1</color>
        <config>
           <color>1</color>
        </config>
        <candidate-paths>
        <candidate-path>
           <originator>WORD</originator>
           <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
           </config>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
           <dynamic>
           <constraints>
           <ip-address-filters>
           <ip-address-filter> <!-- operation="delete"-->
              <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
              <config>
                 <ihaf-address>A.B.C.D/X:X::X:X</ihaf-address>
                 <ihaf-affinity-type>exclude-any</ihaf-affinity-type>
              </config>
           </ip-address-filter>
        </ip-address-filters>
     </constraints>
  </dynamic>
  </candidate-path>
  </candidate-paths>
  </on-demand-nexthop>
  </on-demand-nexthops>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
A.B.C.D/X:X::X:X (exclude-any|include-any|include-all)
```

Configure originator

Enable segment constraints for the dynamic candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: uint8

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
```

```
    <on-demand-nexthop>
       <color>1</color>
       <config>
          <color>1</color>
       </config>
       <candidate-paths>
       <candidate-path>
          <originator>WORD</originator>
          <config>
             <originator>WORD</originator>
             <protocol-origin>local</protocol-origin>
             <discriminator>1</discriminator>
          </config>
             <protocol-origin>local</protocol-origin>
             <discriminator>1</discriminator>
          <dynamic>
          <constraints>
          <segment-rule>
          <config>
                 </enable>
          </config>
       </segment-rule>
    </constraints>
</dynamic>
</candidate-path>
</candidate-paths>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 segment-rule
```

Configure segment-rule enable

Enable segment constraints for the dynamic candidate path

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
    <on-demand-nexthops>
    <on-demand-nexthop>
       <color>1</color>
       <config>
```

```
            <color>1</color>
         </config>
         <candidate-paths>
         <candidate-path>
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            </config>
               <protocol-origin>pcep</protocol-origin>
               <discriminator>1</discriminator>
            <dynamic>
            <constraints>
            <segment-rule>
            <config>
                   </enable>
            </config>
         </segment-rule>
      </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
 enable
```

Configure dataplane type

SR policy dynamic candidate path’s data-plane type

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: dataplane-type

Attribute Type: enum (mpls|srv6)

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop>
         <color>1</color>
         <config>
            <color>1</color>
         </config>
         <candidate-paths>
```

```
        <candidate-path>
           <originator>WORD</originator>
           <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
           </config>
              <protocol-origin>pcep</protocol-origin>
              <discriminator>1</discriminator>
           <dynamic>
           <constraints>
           <segment-rule>
           <property>
           <config>
                  <dataplane-type>mpls</dataplane-type> <!-- operation="delete"-->
           </config>
        </property>
     </segment-rule>
  </constraints>
  </dynamic>
  </candidate-path>
  </candidate-paths>
  </on-demand-nexthop>
  </on-demand-nexthops>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
 dataplane (mpls|srv6)
```

Configure sid algorithm

Flexible Algorithm Number

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: sid-algorithm

Attribute Type: uint32

Attribute Range: 128-255

Netconf edit-config payload

```
  <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
     <on-demand-nexthops>
     <on-demand-nexthop>
        <color>1</color>
        <config>
           <color>1</color>
        </config>
```

```
        <candidate-paths>
        <candidate-path>
           <originator>WORD</originator>
           <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
           </config>
              <protocol-origin>pcep</protocol-origin>
              <discriminator>1</discriminator>
           <dynamic>
           <constraints>
           <segment-rule>
           <property>
           <config>
                  <sid-algorithm>128</sid-algorithm> <!-- operation="delete"-->
           </config>
        </property>
     </segment-rule>
  </constraints>
  </dynamic>
  </candidate-path>
  </candidate-paths>
  </on-demand-nexthop>
  </on-demand-nexthops>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
sid-algorithm <128-255>
```

Configure protection type

SR policy dynamic candidate path’s protection type

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: protection-type

Attribute Type: enum (protected-only|protected-prefered|unprotected-only|unprotected-prefered)

Netconf edit-config payload

```
  <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
  <traffic-engineering>
     <on-demand-nexthops>
     <on-demand-nexthop>
        <color>1</color>
        <config>
           <color>1</color>
        </config>
        <candidate-paths>
```

```
          <candidate-path>
             <originator>WORD</originator>
             <config>
                <originator>WORD</originator>
                <protocol-origin>local</protocol-origin>
                <discriminator>1</discriminator>
             </config>
                <protocol-origin>pcep</protocol-origin>
                <discriminator>1</discriminator>
             <dynamic>
             <constraints>
             <segment-rule>
             <property>
             <config>
                    <protection-type>protected-only</protection-type> <!--
operation="delete"-->
             </config>
          </property>
       </segment-rule>
   </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
protection (protected-only|protected-prefered|unprotected-only|unprotected-
  prefered)
```

Configure sub id

Disjoint path sub-group id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
   <segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
   <traffic-engineering>
      <on-demand-nexthops>
      <on-demand-nexthop>
         <color>1</color>
         <config>
            <color>1</color>
```

```
        </config>
        <candidate-paths>
        <candidate-path>
           <originator>WORD</originator>
           <config>
              <originator>WORD</originator>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
           </config>
              <protocol-origin>local</protocol-origin>
              <discriminator>1</discriminator>
           <dynamic>
           <constraints>
           <disjoint-paths>
           <disjoint-path>
              <disjoint-type>link</disjoint-type>
              <config>
                 <disjoint-type>link</disjoint-type>
                 <group-id>1</group-id>
              </config>
                 <group-id>1</group-id>
                 <sub-id>1</sub-id>
           </disjoint-path>
        </disjoint-paths>
     </constraints>
  </dynamic>
  </candidate-path>
  </candidate-paths>
  </on-demand-nexthop>
  </on-demand-nexthops>
  </traffic-engineering>
  </segment-routing>
```

Command Syntax

```
disjoint-path group-id <1-65535> type (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure group id

Disjoint path sub-group id

This command is supported when following feature are enabled Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: sub-id

Attribute Type: uint32

Attribute Range: 1-65535

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
```

```
      <on-demand-nexthops>
      <on-demand-nexthop>
         <color>1</color>
         <config>
            <color>1</color>
         </config>
         <candidate-paths>
         <candidate-path>
            <originator>WORD</originator>
            <config>
               <originator>WORD</originator>
               <protocol-origin>local</protocol-origin>
               <discriminator>1</discriminator>
            </config>
               <protocol-origin>pcep</protocol-origin>
               <discriminator>1</discriminator>
            <dynamic>
            <constraints>
            <disjoint-paths>
            <disjoint-path>
               <disjoint-type>link</disjoint-type>
               <config>
                  <disjoint-type>link</disjoint-type>
                  <group-id>1</group-id>
               </config>
                  <group-id>1</group-id>
                  <sub-id>1</sub-id> <!-- operation="delete"-->
            </disjoint-path>
         </disjoint-paths>
      </constraints>
   </dynamic>
   </candidate-path>
   </candidate-paths>
   </on-demand-nexthop>
   </on-demand-nexthops>
   </traffic-engineering>
   </segment-routing>
```

Command Syntax

```
    <1-65535> (link|node|srlg|srlg-node) sub-id <1-65535>
```

Configure pce state report

To only report all the configured candidate path of policy to PCE controller

This command is supported when following feature are enabled PCEP-SR feature,Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pce-state-report

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <pce>
      <config>
             </pce-state-report><!-- operation="delete"-->
      </config>
   </pce>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
 pce state-report
```

Configure pce entity id

Entity Id of PCEP entity to which this policy should be queried/reported/delegated

This command is supported when following feature are enabled PCEP-SR feature,Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pce-entity-id

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <pce>
      <config>
             <pce-entity-id>1</pce-entity-id> <!-- operation="delete"-->
      </config>
   </pce>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
```

```
</segment-routing>
```

Command Syntax

```
pce entity <1-255>
```

Configure pce lsp delegate

To delegate all the configured candidate path of policy to PCE controller

This command is supported when following feature are enabled PCEP-SR feature,Segment-Routing Traffic Engineering using SR-Policy Feature

Attribute Name: pce-lsp-delegate

Attribute Type: empty

Netconf edit-config payload

```
<segment-routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-segment-routing">
<traffic-engineering>
   <on-demand-nexthops>
   <on-demand-nexthop>
      <color>1</color>
      <config>
         <color>1</color>
      </config>
      <pce>
      <config>
             </pce-lsp-delegate><!-- operation="delete"-->
      </config>
   </pce>
</on-demand-nexthop>
</on-demand-nexthops>
</traffic-engineering>
</segment-routing>
```

Command Syntax

```
pce lsp-delegate
```

IPI-VM

Configure bridge name

Name of the VM bridge

Attribute Name: bridge-name

Attribute Type: string

Attribute Range: 1-16

Netconf edit-config payload

```
<vm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
<vm-bridges>
<vm-bridge> <!-- operation="delete"-->
   <bridge-name>VM-BRIDGE-NAME</bridge-name>
   <config>
      <bridge-name>VM-BRIDGE-NAME</bridge-name>
   </config>
</vm-bridge>
</vm-bridges>
</vm>
```

Command Syntax

```
vm-bridge-create VM-BRIDGE-NAME
```

Configure tpid

Set control channel tpid

Attribute Name: tpid

Attribute Type: string

Attribute Name: vlan

Attribute Type: uint16

Attribute Range: 1-4095

Netconf edit-config payload

```
<vm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
<control-channel>
<config>
   <vlan>1</vlan>
   <tpid>TPID</tpid>
</config>
</control-channel>
</vm>
```

Command Syntax

```
control-channel vlan <1-4095> tpid TPID
```

Configure from match type

match-ip or source-interface

Attribute Name: from-match-type

Attribute Type: enum (match-ip|source-interface)

Netconf edit-config payload

```
<nat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
<dnat>
```

```
<dnat-vrf> <!-- operation="delete"-->
   <vrf-name>VRF-NAME</vrf-name>
   <config>
      <vrf-name>VRF-NAME</vrf-name>
      <to-port-num>-1</to-port-num>
      <from-port-num>-1</from-port-num>
      <protocol>tcp</protocol>
      <to-ip-addr>A.B.C.D</to-ip-addr>
      <from-match-value>A.B.C.D|IFNAME</from-match-value>
      <from-match-type>match-ip</from-match-type>
   </config>
   <to-port-num>-1</to-port-num>
   <from-port-num>-1</from-port-num>
   <protocol>tcp</protocol>
   <to-ip-addr>A.B.C.D</to-ip-addr>
   <from-match-value>A.B.C.D|IFNAME</from-match-value>
   <from-match-type>match-ip</from-match-type>
</dnat-vrf>
</dnat>
</nat>
```

Command Syntax

```
nat dnat (source-interface) IFNAME to A.B.C.D protocol (tcp|udp) sport-num <-1-
  65535> dport-num <-1-65535> (vrf VRF-NAME|)
```

Configure from match value

match-ip or source-interface

Attribute Name: from-match-type

Attribute Type: enum (match-ip|source-interface)

Netconf edit-config payload

```
<nat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
<dnat>
<dnat-vrf> <!-- operation="delete"-->
   <vrf-name>VRF-NAME</vrf-name>
   <config>
      <vrf-name>VRF-NAME</vrf-name>
      <to-port-num>-1</to-port-num>
      <from-port-num>-1</from-port-num>
      <protocol>tcp</protocol>
      <to-ip-addr>A.B.C.D</to-ip-addr>
      <from-match-value>A.B.C.D|IFNAME</from-match-value>
      <from-match-type>match-ip</from-match-type>
   </config>
   <to-port-num>-1</to-port-num>
   <from-port-num>-1</from-port-num>
   <protocol>tcp</protocol>
   <to-ip-addr>A.B.C.D</to-ip-addr>
```

```
    <from-match-value>A.B.C.D|IFNAME</from-match-value>
    <from-match-type>match-ip</from-match-type>
</dnat-vrf>
</dnat>
</nat>
```

Command Syntax

```
nat dnat (match-ip) A.B.C.D to A.B.C.D protocol (tcp|udp) sport-num <-1-65535>
  dport-num <-1-65535> (vrf VRF-NAME|)
```

Configure vrf name

VRF Name

Attribute Name: vrf-name

Attribute Type: string

Netconf edit-config payload

```
<nat xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
<snat>
<snat-vrf> <!-- operation="delete"-->
    <vrf-name>VRF-NAME</vrf-name>
    <config>
        <vrf-name>VRF-NAME</vrf-name>
        <to-ip-addr>A.B.C.D|IFNAME</to-ip-addr>
        <from-ip-addr>A.B.C.D/M</from-ip-addr>
    </config>
    <to-ip-addr>A.B.C.D|IFNAME</to-ip-addr>
    <from-ip-addr>A.B.C.D/M</from-ip-addr>
</snat-vrf>
</snat>
</nat>
```

Command Syntax

```
nat snat from A.B.C.D/M to (A.B.C.D|IFNAME) (vrf VRF-NAME|)
```

Configure enable feature

Global command to enable Guest-VM feature

Attribute Name: enable-feature

Attribute Type: boolean

Netconf edit-config payload

```
<guestVm xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vm">
<config>
    <enable-feature>true</enable-feature>
</config>
</guestVm>
```

Command Syntax

```
feature guest-vm enable
```

IPI-HOST

Configure disable service advanced vty

Use this attribute to enable advanced mode vty interface.

This command is supported when following feature are enabled IMI feature

Attribute Name: disable-service-advanced-vty

Attribute Type: uint8

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
<config>
   </disable-service-advanced-vty><!-- operation="delete"-->
</config>
</system-host>
```

Command Syntax

```
no service advanced-vty
```

Configure service passwd encryption

Use this attribute to enable password encryption.

This command is supported when following feature are enabled IMI feature

Attribute Name: service-passwd-encryption

Attribute Type: boolean

Default Value: true

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
<config>
   <service-passwd-encryption>true</service-passwd-encryption> <!--
operation="delete"-->
</config>
</system-host>
```

Command Syntax

```
service password-encryption
```

Configure system-host service-passwd-encryption

Use this attribute to enable password encryption.

This command is supported when following feature are enabled IMI feature

Attribute Name: service-passwd-encryption

Attribute Type: boolean

Default Value: true

Netconf edit-config payload

```
   <system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
   <config>
      <service-passwd-encryption>true</service-passwd-encryption> <!--
operation="delete"-->
   </config>
   </system-host>
```

Command Syntax

```
    no service password-encryption
```

Configure passwd encrypted

Use this attribute to provide encrypted password.

This command is supported when following feature are enabled IMI feature

Attribute Name: passwd-encrypted

Attribute Type: uint8

Attribute Name: system-enable-passwd

Attribute Type: string

Netconf edit-config payload

```
   <system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
   <config>
      <system-enable-passwd>LINE</system-enable-passwd> <!-- operation="delete"-->
      </passwd-encrypted><!-- operation="delete"-->
   </config>
   </system-host>
```

Command Syntax

```
    enable password (8|) LINE
```

Configure term monitor default behavior disable

Use this attribute to control terminal monitor initial behavior as disable when user session starts. The executive command terminal monitor has precedence over configuration command.

This command is supported when following feature are enabled IMI feature

Attribute Name: term-monitor-default-behavior-disable

Attribute Type: empty

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
<config>
   </term-monitor-default-behavior-disable><!-- operation="delete"-->
</config>
</system-host>
```

Command Syntax

```
no terminal monitor default
```

Configure banner motd

Use this attribute to set the login banner for the OcNOS device.

This command is supported when following feature are enabled IMI feature

Attribute Name: banner-motd

Attribute Type: union

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
<config>
   <banner-motd>CML_BANNER_T</banner-motd>
</config>
</system-host>
```

Command Syntax

```
banner motd (LINE|default|none)
```

Configure banner motd file

Use this attribute to set the filename containing the banner message

This command is supported when following feature are enabled IMI feature

Attribute Name: banner-motd-file

Attribute Type: string

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
<config>
   <banner-motd-file>FILENAME</banner-motd-file> <!-- operation="delete"-->
</config>
</system-host>
```

Command Syntax

```
banner motd file FILENAME
```

Configure service term length

Use this attribute to set system wide terminal length.

This command is supported when following feature are enabled IMI feature

Attribute Name: service-term-length

Attribute Type: uint16

Attribute Range: 0-512

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
<config>
   <service-term-length>0</service-term-length> <!-- operation="delete"-->
</config>
</system-host>
```

Command Syntax

```
service terminal-length <0-512>
```

Configure disable default autoenable

Use this attribute to disable auto enable feature based on the user role which is happening by default for remote authentication.

This command is supported when following feature are enabled IMI feature

Attribute Name: disable-default-autoenable

Attribute Type: empty

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
<config>
   </disable-default-autoenable><!-- operation="delete"-->
</config>
</system-host>
```

Command Syntax

```
disable default auto-enable
```

Configure term timestamping

Use this attribute to enable CLI prompt timestamping during terminal initialization.

This command is supported when following feature are enabled IMI feature

Attribute Name: term-timestamping

Attribute Type: empty

Netconf edit-config payload

```
<system-host xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-host">
```

```
<config>
   </term-timestamping><!-- operation="delete"-->
</config>
</system-host>
```

Command Syntax

```
terminal default timestamping
```

IPI-TWAMP-CLIENT

Configure enable

Enables TWAMP Client

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<client>
<config>
       </enable>
</config>
</client>
</twamp>
```

Command Syntax

```
twamp client
```

Configure maximum sessions

Maximum number of test sessions for the whole client node (default = 64)

Attribute Name: maximum-sessions

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<client>
<config>
       <maximum-sessions>1</maximum-sessions> <!-- operation="delete"-->
</config>
</client>
</twamp>
```

Command Syntax

```
maximum-sessions <1-2000>
```

Configure maximum connections

The maximum number of connections that can be created systemwide

Attribute Name: maximum-connections

Attribute Type: uint8

Attribute Range: 1-64

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <client>
   <config>
          <maximum-connections>1</maximum-connections> <!-- operation="delete"-->
   </config>
   </client>
   </twamp>
```

Command Syntax

```
    maximum-connections <1-64>
```

Configure maximum sessions per connection

Maximum number of test sessions per connection (default = 1)

Attribute Name: maximum-sessions-per-connection

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <client>
   <config>
          <maximum-sessions-per-connection>1</maximum-sessions-per-connection> <!--
operation="delete"-->
   </config>
   </client>
   </twamp>
```

Command Syntax

```
    maximum-sessions-per-connection <1-2000>
```

Configure connection name

Sets client connection Name

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<client>
<connections>
<connection> <!-- operation="delete"-->
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
      <connection-name>NAME</connection-name>
   </config>
      <connection-name>NAME</connection-name>
</connection>
</connections>
</client>
</twamp>
```

Command Syntax

```
connection NAME (vrf-name NAME|)
```

Configure server address

Configure twamp server address to connect with client

Attribute Name: server-address

Attribute Type: union

Attribute Name: server-port

Attribute Type: union

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<client>
<connections>
<connection>
   <vrf-name>NAME</vrf-name>
   <config>
      <vrf-name>WORD</vrf-name>
      <connection-name>NAME</connection-name>
      <server-port>862</server-port> <!-- operation="delete"-->
   </config>
      <connection-name>NAME</connection-name>
      <server-address>TWAMP_HOSTNAME_T</server-address>
</connection>
</connections>
</client>
</twamp>
```

Command Syntax

```
server (ipv4 A.B.C.D|ipv6 X:X::X:X|HOSTNAME) (port (862|<1025-65535>)|)
```

twamp client start connection NAME (vrf WORD|) packet-count <0-1000000>

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Name: packet-count

Attribute Type: uint32

Attribute Range: 0-1000000

Netconf RPC payload

```
       <ipi-twamp-client_twamp-client-start-connection xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-twamp">
       <connection-name>NAME</connection-name>
       <vrf-name>WORD</vrf-name>
       <packet-count>0</packet-count>
       </ipi-twamp-client_twamp-client-start-connection>
```

Command Syntax

```
    twamp client start connection NAME (vrf WORD|) packet-count <0-1000000>
```

twamp client stop connection NAME (vrf WORD|)

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
       <ipi-twamp-client_twamp-client-stop-connection xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-twamp">
       <connection-name>NAME</connection-name>
       <vrf-name>WORD</vrf-name>
       </ipi-twamp-client_twamp-client-stop-connection>
```

Command Syntax

```
    twamp client stop connection NAME (vrf WORD|)
```

twamp client reset connection NAME (session NAME|) (vrf WORD|)

Attribute Name: connection-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-128

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Netconf RPC payload

```
       <ipi-twamp-client_twamp-client-reset-session xmlns="http://www.ipinfusion.com/
yang/ocnos/ipi-twamp">
       <connection-name>NAME</connection-name>
       <session-name>NAME</session-name>
       <vrf-name>WORD</vrf-name>
       </ipi-twamp-client_twamp-client-reset-session>
```

Command Syntax

```
    twamp client reset connection NAME (session NAME|) (vrf WORD|)
```

IPI-MAX-SESSION-CLI

Configure max session limit

Use this attribute to set maximum session limit for vty.

Attribute Name: max-session-limit

Attribute Type: uint8

Attribute Range: 1-40

Netconf edit-config payload

```
   <user-session xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-user-session-
management">
   <max-session-limit>
   <config>
          <max-session-limit>1</max-session-limit> <!-- operation="delete"-->
   </config>
   </max-session-limit>
   </user-session>
```

Command Syntax

```
    max-session <1-40>
```

IPI-TWAMP-SESSION

Configure session name

TWAMP End-to-End Session name

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session> <!-- operation="delete"-->
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
</session>
</sessions>
</twamp>
```

Command Syntax

```
twamp session WORD
```

Configure enabled

Use this attribute to shut/unshut a TWAMP Session

Attribute Name: enabled

Attribute Type: uint8

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
      </enabled><!-- operation="delete"-->
</session>
</sessions>
</twamp>
```

Command Syntax

```
no shut
```

Configure description

Use this attribute to add a description to TWAMP Session

Attribute Name: description

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
      <description>LINE</description> <!-- operation="delete"-->
</session>
</sessions>
</twamp>
```

Command Syntax

```
 description LINE
```

Configure reflector ip

Use this attribute to set the reflector IP.

Attribute Name: reflector-ip

Attribute Type: union

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
   <config>
          <reflector-ip>1</reflector-ip> <!-- operation="delete"-->
   </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
reflector-ip (HOSTNAME|A.B.C.D)
```

Configure reflector port

Use this attribute to set the reflector port.

Attribute Name: reflector-port

Attribute Type: union

Default Value: 862

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
   <config>
         <reflector-port>862</reflector-port> <!-- operation="delete"-->
   </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
reflector-port (862|<1025-65535>)
```

Configure sender ip

Use this attribute to set the sender IP.

Attribute Name: sender-ip

Attribute Type: union

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
   <config>
```

```
            <sender-ip>1</sender-ip> <!-- operation="delete"-->
      </config>
   </parameters>
   </session>
   </sessions>
   </twamp>
```

Command Syntax

```
sender-ip (HOSTNAME|A.B.C.D)
```

Configure sender port

Use this attribute to set the sender port.

Attribute Name: sender-port

Attribute Type: union

Default Value: 862

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
   <sessions>
   <session>
      <session-name>WORD</session-name>
      <config>
         <session-name>WORD</session-name>
      </config>
      <parameters>
      <config>
             <sender-port>862</sender-port> <!-- operation="delete"-->
      </config>
   </parameters>
   </session>
   </sessions>
   </twamp>
```

Command Syntax

```
sender-port (862|<1025-65535>)
```

Configure vrf name

Set the VRF name for this TWAMP Session.

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

Attribute Range: 1-32

Netconf edit-config payload

```
   <twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
```

```
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
   <config>
         <vrf-name>WORD</vrf-name> <!-- operation="delete"-->
   </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
vrf-name WORD
```

Configure vpn net interface

Set the VPN network interface for this TWAMP Session.

Attribute Name: vpn-net-interface

Attribute Type: string

Attribute Range: 1-32

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
   <config>
         <vpn-net-interface>WORD</vpn-net-interface> <!-- operation="delete"-->
   </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
vpn-net-interface WORD
```

Configure dscp

Use this attribute to classify traffic based on the Differentiated Services Code Point (DSCP) value. The DSCP value range is 0-63.Warning: In CLI show running, DSCP values with well-known names (ex.: af11, cs0) will be displayed as such.On Netconf, DSCP values will always be numeric. The string type allow up to 8 characters on well-known name.

Attribute Name: dscp

Attribute Type: string

Default Value: 0

Attribute Range: 1-8

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
   <config>
         <dscp>WORD</dscp> <!-- operation="delete"-->
   </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
 dscp WORD
```

Configure burst interval

Configure the burst interval

Attribute Name: burst-interval

Attribute Type: uint16

Default Value: 3000

Attribute Range: 1000-15000

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
```

```
    <config>
          <burst-interval>1000</burst-interval> <!-- operation="delete"-->
    </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
burst-interval <1000-15000>
```

Configure burst count

Configure the burst-count

Attribute Name: burst-count

Attribute Type: uint8

Default Value: 3

Attribute Range: 1-10

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
    <session-name>WORD</session-name>
    <config>
       <session-name>WORD</session-name>
    </config>
    <parameters>
    <config>
          <burst-count>1</burst-count> <!-- operation="delete"-->
    </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
burst-count <1-10>
```

Configure interval

Configure the computation interval

Attribute Name: interval

Attribute Type: uint16

Default Value: 30

Attribute Range: 30-3600

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <parameters>
   <config>
         <interval>30</interval> <!-- operation="delete"-->
   </config>
</parameters>
</session>
</sessions>
</twamp>
```

Command Syntax

```
interval <30-3600>
```

Configure notification enabled

Enable the notifications for advertising via NETCONF/SNMP Traps when thresholds are crossed

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <notification>
   <config>
         </enabled><!-- operation="delete"-->
   </config>
</notification>
</session>
</sessions>
</twamp>
```

Command Syntax

```
notification enabled
```

Configure threshold

Configure the notifications advertisement threshold

Attribute Name: threshold

Attribute Type: uint8

Default Value: 30

Attribute Range: 1-100

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <notification>
   <config>
          <threshold>1</threshold> <!-- operation="delete"-->
   </config>
</notification>
</session>
</sessions>
</twamp>
```

Command Syntax

```
 notification threshold <1-100>
```

Configure minimum change

Configure the notifications advertisement minimum-change in microseconds (default=1000)

Attribute Name: minimum-change

Attribute Type: uint16

Default Value: 1000

Attribute Range: 0-10000

Netconf edit-config payload

```
<twamp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-twamp">
<sessions>
<session>
   <session-name>WORD</session-name>
   <config>
      <session-name>WORD</session-name>
   </config>
   <notification>
   <config>
```

```
            <minimum-change>0</minimum-change> <!-- operation="delete"-->
      </config>
   </notification>
   </session>
   </sessions>
   </twamp>
```

Command Syntax

```
notification minimum-change <0-10000>
```

clear twamp session WORD

Attribute Name: session-name

Attribute Type: string

Attribute Range: 1-32

Netconf RPC payload

```
      <ipi-twamp-session_twamp-session-clear-measurement xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-twamp">
      <session-name>WORD</session-name>
      </ipi-twamp-session_twamp-session-clear-measurement>
```

Command Syntax

```
clear twamp session WORD
```

clear twamp session all

Netconf RPC payload

```
      <ipi-twamp-session_twamp-session-clear-measurement-all xmlns="http://
www.ipinfusion.com/yang/ocnos/ipi-twamp"/>
```

Command Syntax

```
clear twamp session all
```

IPI-MAC-LIMIT

Configure mac lim profile name

Instance MAC limit config

Attribute Name: mac-lim-profile-name

Attribute Type: string

Attribute Range: 1-255

Netconf edit-config payload

```
   <mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
```

```
<mac-limit-profiles>
<mac-limit-profile-inst> <!-- operation="delete"-->
   <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   <config>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   </config>
</mac-limit-profile-inst>
</mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
mac-limit-profile PROFILENAME
```

Configure learning limit

Number of MAC limit supported

Attribute Name: learning-limit

Attribute Type: uint32

Default Value: 131071

Attribute Range: 1-131071

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
<mac-limit-profiles>
<mac-limit-profile-inst>
   <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   <config>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   </config>
   <learning-limit>1</learning-limit> <!-- operation="delete"-->
</mac-limit-profile-inst>
</mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
learning-limit <1-131071>
```

Configure action

MAC limit action

Attribute Name: action

Attribute Type: enum (log-only|log-errdisable)

Default Value: log-only

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
<mac-limit-profiles>
```

```
<mac-limit-profile-inst>
   <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   <config>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   </config>
   <action>log-only</action> <!-- operation="delete"-->
</mac-limit-profile-inst>
</mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
action (log-only|log-errdisable)
```

Configure high watermark

High watermark for logging

Attribute Name: high-watermark

Attribute Type: uint16

Default Value: 90

Attribute Range: 1-100

Netconf edit-config payload

```
<mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
<mac-limit-profiles>
<mac-limit-profile-inst>
   <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   <config>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
   </config>
   <high-watermark>1</high-watermark> <!-- operation="delete"-->
</mac-limit-profile-inst>
</mac-limit-profiles>
</mac-limit-global>
```

Command Syntax

```
high-watermark <1-100>
```

Configure low watermark

Low watermark for logging

Attribute Name: low-watermark

Attribute Type: uint16

Default Value: 70

Attribute Range: 1-100

Netconf edit-config payload

```
   <mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
   <mac-limit-profiles>
   <mac-limit-profile-inst>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      <config>
         <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      </config>
      <low-watermark>1</low-watermark> <!-- operation="delete"-->
   </mac-limit-profile-inst>
   </mac-limit-profiles>
   </mac-limit-global>
```

Command Syntax

```
    low-watermark <1-100>
```

Configure errdisable timeout interval

Error disable timeout interval

Attribute Name: errdisable-timeout-interval

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-86400

Netconf edit-config payload

```
   <mac-limit-global xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-limit">
   <mac-limit-profiles>
   <mac-limit-profile-inst>
      <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      <config>
         <mac-lim-profile-name>PROFILENAME</mac-lim-profile-name>
      </config>
      <errdisable-timeout-interval>0</errdisable-timeout-interval> <!--
operation="delete"-->
   </mac-limit-profile-inst>
   </mac-limit-profiles>
   </mac-limit-global>
```

Command Syntax

```
    errdisable-timeout <0-86400>
```

IPI-MAC-LIST

Configure mac list name

mac-list name

Attribute Name: mac-list-name

Attribute Type: string

Netconf edit-config payload

```
<mac-addresses xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-list">
<mac-address> <!-- operation="delete"-->
    <mac-list-name>WORD</mac-list-name>
    <config>
        <mac-list-name>WORD</mac-list-name>
    </config>
</mac-address>
</mac-addresses>
```

Command Syntax

```
 mac-list WORD
```

Configure mac addr mask

Mac Address Mask

Attribute Name: mac-addr-mask

Attribute Type: string

Netconf edit-config payload

```
<mac-addresses xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-mac-list">
<mac-address>
    <mac-list-name>WORD</mac-list-name>
    <config>
        <mac-list-name>WORD</mac-list-name>
    </config>
<mac-entries>
<mac-entry>
    <sequence-id>1</sequence-id>
    <config>
        <sequence-id>1</sequence-id>
    </config>
    <mac>
    <entry>
        <mac-addr-mask>XXXX.XXXX.XXXX</mac-addr-mask>
        <config>
            <mac-addr>XXXX.XXXX.XXXX</mac-addr>
            <mac-addr>XXXX.XXXX.XXXX</mac-addr>
            <action>deny</action>
        </config>
            <mac-addr>XXXX.XXXX.XXXX</mac-addr>
            <action>deny</action>
    </entry>
</mac>
</mac-entry>
</mac-entries>
```

```
</mac-address>
</mac-addresses>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) XXXX.XXXX.XXXX XXXX.XXXX.XXXX
```

IPI-SYS-SERVICE-MGMT

Configure system backup content

system backup content

Attribute Name: system-backup-content

Attribute Type: enum (config|all)

Netconf edit-config payload

```
<system-backups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sys-service-mgmt">
<system-backup>
<config>
   <system-backup-content>config</system-backup-content> <!-- operation="delete"-->
</config>
</system-backup>
</system-backups>
```

Command Syntax

```
system usb backup (config|all)
```

IPI-K3S

Configure enable

Use this attribute to enable the K3s feature.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<k3s xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-k3s">
<config>
   </enable><!-- operation="delete"-->
</config>
</k3s>
```

Command Syntax

```
feature k3s
```

IPI-DOCKER

Configure enable

Use this attribute to enable the Docker feature.

Attribute Name: enable

Attribute Type: empty

Netconf edit-config payload

```
<docker xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-docker">
<config>
   </enable><!-- operation="delete"-->
</config>
</docker>
```

Command Syntax

```
 feature docker
```

ipi-aaa

```
  +--rw aaa
     +--rw vrfs
     |  +--rw vrf* [vrf-name]
     |     +--rw vrf-name         -> ../config/vrf-name
     |     +--rw config
     |     |  +--rw vrf-name?                    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
     |     |  +--rw authentication-method-rule?   cml-data-types:cml_line_t
     |     |  +--rw accounting-method-rule?       cml-data-types:cml_line_t
     |     |  +--rw authorization-method-rule?    cml-data-types:cml_line_t
     |     |  +--rw enable-fallback?               empty
     |     |  +--rw non-existent?                 empty
     |     |  +--rw error-enable?                 empty
     |     +--ro state
     |     |  +--ro vrf-name?                    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
     |     |  +--ro authentication-method-rule?   cml-data-types:cml_line_t
     |     |  +--ro accounting-method-rule?       cml-data-types:cml_line_t
     |     |  +--ro authorization-method-rule?    cml-data-types:cml_line_t
     |     |  +--ro enable-fallback?               empty
     |     |  +--ro non-existent?                 empty
     |     |  +--ro error-enable?                 empty
     |     +--rw server-groups
     |        +--rw server-group* [group-type group-name]
     |           +--rw group-type          -> ../config/group-type
     |           +--rw group-name          -> ../config/group-name
     |           +--rw config
     |           |  +--rw group-type?   ipi-aaa-types:aaa_server_grp_type_t
```

```
|          | +--rw group-name?   string
|          +--ro state
|          | +--ro group-type?   ipi-aaa-types:aaa_server_grp_type_t
|          | +--ro group-name?   string
|          +--rw server-addresses
|            +--rw server-address* [host-address]
|              +--rw host-address    -> ../config/host-address
|              +--rw config
|              | +--rw host-address?   cml-data-types:cml_hostname_t
|              +--ro state
|                +--ro host-address?   cml-data-types:cml_hostname_t
+--rw aaa-authentication-console
| +--rw config
| | +--rw authentication-method-rule?   cml-data-types:cml_line_t
| | +--rw enable-fallback?              boolean
| | +--rw authorization-method-rule?    cml-data-types:cml_line_t
| | +--rw accounting-method-rule?       cml-data-types:cml_line_t
| | +--rw user-non-existent?            empty
| +--ro state
|   +--ro authentication-method-rule?   cml-data-types:cml_line_t
|   +--ro enable-fallback?              boolean
|   +--ro authorization-method-rule?    cml-data-types:cml_line_t
|   +--ro accounting-method-rule?       cml-data-types:cml_line_t
|   +--ro user-non-existent?            empty
+--rw aaa-user
| +--rw config
| | +--rw authentication-max-failure-attempts?   uint8
| | +--rw local-user-unlock-timeout?             uint16
| +--ro state
| | +--ro authentication-max-failure-attempts?   uint8
| | +--ro local-user-unlock-timeout?             uint16
| +--rw password-policy
|   +--rw config
|   | +--rw enable?              empty
|   | +--rw numeric-count?       uint8
|   | +--rw uppercase-count?     uint8
```


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```
|    | +--rw lowercase-count?     uint8
|    | +--rw special-count?       uint8
|    | +--rw history?             uint16
|    | +--rw maxsequence?         uint8
|    | +--rw disable-usercheck?   empty
|    | +--rw maxrepeat?           uint8
|    | +--rw min-length?          uint8
|    +--ro state
|    | +--ro enable?              empty
|    | +--ro numeric-count?       uint8
|    | +--ro uppercase-count?     uint8
|    | +--ro lowercase-count?     uint8
|    | +--ro special-count?       uint8
|    | +--ro history?             uint16
|    | +--ro maxsequence?         uint8
|    | +--ro disable-usercheck?   empty
|    | +--ro maxrepeat?           uint8
|    | +--ro min-length?          uint8
|    +--rw role-expdays
|    | +--rw role-expday* [role]
|    |    +--rw role      -> ../config/role
|    |    +--rw config
|    |    | +--rw expire?   uint16
|    |    | +--rw role?     ipi-user-management-types:user_mgmt_role_types_t
|    |    | +--rw user?     string
|    |    +--ro state
|    |       +--ro expire?   uint16
|    |       +--ro role?     ipi-user-management-types:user_mgmt_role_types_t
|    |       +--ro user?     string
|    +--rw user-expdays
|       +--rw user-expday* [user]
|          +--rw user      -> ../config/user
|          +--rw config
|          | +--rw expire?   uint16
|          | +--rw role?     ipi-user-management-types:user_mgmt_role_types_t
|          | +--rw user?     string
```

```
|          +--ro state
|             +--ro expire?   uint16
|             +--ro role?     ipi-user-management-types:user_mgmt_role_types_t
|             +--ro user?     string
+--rw debug
   +--rw config
   | +--rw enable?   empty
   +--ro state
      +--ro enable?                 empty
      +--ro terminal-debug-status?   cml-data-types:cml_on_off_t

rpcs:
  +---x aaa-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA}?
  +---x aaa-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA}?
  +---x aaa-clear-local-user-lockout {feature-list:HAVE_AAA}?
    +---w input
      +---w username    string
```

ipi-acl

```
+--rw acl
   +--rw acl-sets
   | +--rw acl-set* [name type]
   |    +--rw name              -> ../config/name
   |    +--rw type              -> ../config/type
   |    +--rw config
   |    | +--rw name?                        string
   |    | +--rw type?                        ipi-acl-types:acl_types_t
   |    | +--rw description?                 cml-data-types:cml_line_t
```


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```
|    | +--rw ipv6-disable-default-icmpv6-rule?   empty
|    +--ro state
|    | +--ro name?                          string
|    | +--ro type?                          ipi-acl-types:acl_types_t
|    | +--ro description?                   cml-data-types:cml_line_t
|    | +--ro ipv6-disable-default-icmpv6-rule?   empty
|    +--rw default-actions
|    | +--rw config
|    | | +--rw forwarding-action-default?   ipi-acl-types:acl_default_forwarding_action_t
|    | +--ro state
|    |    +--ro counters
|    |    | +--ro matched-packets?   yang:counter64
|    |    +--ro forwarding-action-default?   ipi-acl-types:acl_default_forwarding_action_t
|    +--rw acl-entries
|    | +--rw acl-entry* [sequence-id]
|    |    +--rw sequence-id    -> ../config/sequence-id
|    |    +--rw config
|    |    | +--rw sequence-id?   uint32
|    |    +--ro state
|    |    | +--ro sequence-id?   uint32
|    |    +--rw ipv4
|    |    | +--rw config
|    |    | | +--rw forwarding-action?              ipi-acl-types:acl_forwarding_action_t
|    |    | | +--rw vlan-id?                        uint16
|    |    | | +--rw learn-disable?                  empty {feature-list:HAVE_DNX}?
|    |    | | +--rw source-address?                 ipi-acl-types:acl_any_ipv4_src_addr_t
|    |    | | +--rw destination-address?            ipi-acl-types:acl_any_ipv4_dest_addr_t
|    |    | | +--rw dscp?                           ipi-acl-types:acl_dscp_t
|    |    | | +--rw precedence?                     ipi-acl-types:acl_precedence_t
|    |    | | +--rw inner-vlan-id?                  uint16
|    |    | | +--rw (protocol)?
|    |    | | | +--:(tcp)
|    |    | | | | +--rw protocol-tcp?               empty
|    |    | | | | +--rw tcp-source-port?            ipi-acl-types:acl_tcp_src_port_t
|    |    | | | | +--rw tcp-destination-port?       ipi-acl-types:acl_tcp_dest_port_t
|    |    | | | | +--rw tcp-flags?                  ipi-acl-types:acl_tcp_flags_t
```

```
|   |   | | | +--:(udp)
|   |   | | | | +--rw protocol-udp?              empty
|   |   | | | | +--rw udp-source-port?           ipi-acl-types:acl_udp_src_port_t
|   |   | | | | +--rw udp-destination-port?      ipi-acl-types:acl_udp_dest_port_t
|   |   | | | +--:(icmp)
|   |   | | | | +--rw protocol-icmp?             empty
|   |   | | | +--:(other-protocols)
|   |   | | |    +--rw protocol-name?            ipi-acl-types:acl_ip_protocols_t
|   |   | | +--rw source-port-operator?          ipi-acl-types:acl_src_port_operations_t
|   |   | | +--rw lower-source-port-in-range?    uint16
|   |   | | +--rw upper-source-port-in-range?    uint16
|   |   | | +--rw destination-port-operator?     ipi-acl-types:acl_dest_port_operations_t
|   |   | | +--rw lower-destination-port-in-range?   uint16
|   |   | | +--rw upper-destination-port-in-range?   uint16
|   |   | +--ro state
|   |   |    +--ro counters
|   |   |    | +--ro matched-packets?   yang:counter64
|   |   |    +--ro forwarding-action?           ipi-acl-types:acl_forwarding_action_t
|   |   |    +--ro vlan-id?                     uint16
|   |   |    +--ro learn-disable?               empty {feature-list:HAVE_DNX}?
|   |   |    +--ro source-address?              ipi-acl-types:acl_any_ipv4_src_addr_t
|   |   |    +--ro destination-address?         ipi-acl-types:acl_any_ipv4_dest_addr_t
|   |   |    +--ro dscp?                        ipi-acl-types:acl_dscp_t
|   |   |    +--ro precedence?                  ipi-acl-types:acl_precedence_t
|   |   |    +--ro inner-vlan-id?               uint16
|   |   |    +--ro (protocol)?
|   |   |    | +--:(tcp)
|   |   |    | | +--ro protocol-tcp?             empty
|   |   |    | | +--ro tcp-source-port?          ipi-acl-types:acl_tcp_src_port_t
|   |   |    | | +--ro tcp-destination-port?     ipi-acl-types:acl_tcp_dest_port_t
|   |   |    | | +--ro tcp-flags?                ipi-acl-types:acl_tcp_flags_t
|   |   |    | +--:(udp)
|   |   |    | | +--ro protocol-udp?             empty
|   |   |    | | +--ro udp-source-port?          ipi-acl-types:acl_udp_src_port_t
|   |   |    | | +--ro udp-destination-port?     ipi-acl-types:acl_udp_dest_port_t
|   |   |    | +--:(icmp)
```


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```
|    |    |    | | +--ro protocol-icmp?              empty
|    |    |    | +--:(other-protocols)
|    |    |    |    +--ro protocol-name?             ipi-acl-types:acl_ip_protocols_t
|    |    |    +--ro source-port-operator?           ipi-acl-types:acl_src_port_operations_t
|    |    |    +--ro lower-source-port-in-range?     uint16
|    |    |    +--ro upper-source-port-in-range?     uint16
|    |    |    +--ro destination-port-operator?      ipi-acl-types:acl_dest_port_operations_t
|    |    |    +--ro lower-destination-port-in-range?   uint16
|    |    |    +--ro upper-destination-port-in-range?   uint16
|    |    +--rw ipv6 {feature-list:HAVE_IPV6}?
|    |    | +--rw config
|    |    | | +--rw forwarding-action?              ipi-acl-types:acl_forwarding_action_t
|    |    | | +--rw vlan-id?                        uint16
|    |    | | +--rw learn-disable?                  empty {feature-list:HAVE_DNX}?
|    |    | | +--rw source-address?                 ipi-acl-types:acl_any_ipv6_src_addr_t
|    |    | | +--rw destination-address?            ipi-acl-types:acl_any_ipv6_dest_addr_t
|    |    | | +--rw dscp?                           ipi-acl-types:acl_dscp_t
|    |    | | +--rw (protocol)?
|    |    | | | +--:(tcp)
|    |    | | | | +--rw protocol-tcp?              empty
|    |    | | | | +--rw tcp-source-port?           ipi-acl-types:acl_tcp_src_port_t
|    |    | | | | +--rw tcp-destination-port?      ipi-acl-types:acl_tcp_dest_port_t
|    |    | | | +--:(udp)
|    |    | | | | +--rw protocol-udp?              empty
|    |    | | | | +--rw udp-source-port?           ipi-acl-types:acl_udp_src_port_t
|    |    | | | | +--rw udp-destination-port?      ipi-acl-types:acl_udp_dest_port_t
|    |    | | | +--:(icmp)
|    |    | | | | +--rw protocol-icmp?             empty
|    |    | | | +--:(sctp)
|    |    | | | | +--rw protocol-sctp?             empty
|    |    | | | | +--rw sctp-source-port?          uint16
|    |    | | | | +--rw sctp-destination-port?     uint16
|    |    | | | +--:(other-protocols)
|    |    | | |    +--rw protocol-name?             ipi-acl-types:acl_ipv6_protocols_t
|    |    | | +--rw source-port-operator?           ipi-acl-types:acl_src_port_operations_t
|    |    | | +--rw lower-source-port-in-range?     uint16
```

```
|    |    | | +--rw upper-source-port-in-range?        uint16
|    |    | | +--rw destination-port-operator?         ipi-acl-types:acl_dest_port_operations_t
|    |    | | +--rw lower-destination-port-in-range?   uint16
|    |    | | +--rw upper-destination-port-in-range?   uint16
|    |    | +--ro state
|    |    |    +--ro counters
|    |    |    | +--ro matched-packets?   yang:counter64
|    |    |    +--ro forwarding-action?              ipi-acl-types:acl_forwarding_action_t
|    |    |    +--ro vlan-id?                        uint16
|    |    |    +--ro learn-disable?                  empty {feature-list:HAVE_DNX}?
|    |    |    +--ro source-address?                 ipi-acl-types:acl_any_ipv6_src_addr_t
|    |    |    +--ro destination-address?            ipi-acl-types:acl_any_ipv6_dest_addr_t
|    |    |    +--ro dscp?                           ipi-acl-types:acl_dscp_t
|    |    |    +--ro (protocol)?
|    |    |    | +--:(tcp)
|    |    |    | | +--ro protocol-tcp?              empty
|    |    |    | | +--ro tcp-source-port?           ipi-acl-types:acl_tcp_src_port_t
|    |    |    | | +--ro tcp-destination-port?      ipi-acl-types:acl_tcp_dest_port_t
|    |    |    | +--:(udp)
|    |    |    | | +--ro protocol-udp?              empty
|    |    |    | | +--ro udp-source-port?           ipi-acl-types:acl_udp_src_port_t
|    |    |    | | +--ro udp-destination-port?      ipi-acl-types:acl_udp_dest_port_t
|    |    |    | +--:(icmp)
|    |    |    | | +--ro protocol-icmp?             empty
|    |    |    | +--:(sctp)
|    |    |    | | +--ro protocol-sctp?             empty
|    |    |    | | +--ro sctp-source-port?          uint16
|    |    |    | | +--ro sctp-destination-port?     uint16
|    |    |    | +--:(other-protocols)
|    |    |    |    +--ro protocol-name?             ipi-acl-types:acl_ipv6_protocols_t
|    |    |    +--ro source-port-operator?           ipi-acl-types:acl_src_port_operations_t
|    |    |    +--ro lower-source-port-in-range?     uint16
|    |    |    +--ro upper-source-port-in-range?     uint16
|    |    |    +--ro destination-port-operator?      ipi-acl-types:acl_dest_port_operations_t
|    |    |    +--ro lower-destination-port-in-range?   uint16
|    |    |    +--ro upper-destination-port-in-range?   uint16
```


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```
|    |    +--rw arp
|    |    | +--rw config
|    |    | | +--rw forwarding-action?             ipi-acl-types:acl_forwarding_action_t
|    |    | | +--rw vlan-id?                       uint16
|    |    | | +--rw learn-disable?                 empty {feature-list:HAVE_DNX}?
|    |    | | +--rw inner-vlan-id?                 uint16
|    |    | | +--rw (source-mac-options)?
|    |    | | | +--:(any-mac)
|    |    | | | | +--rw source-mac-any?            empty
|    |    | | | +--:(host-mac)
|    |    | | | | +--rw source-mac-host?           ipi-acl-types:acl_mac_addr_t
|    |    | | | +--:(mac-with-mask)
|    |    | | |    +--rw source-mac-address?       ipi-acl-types:acl_mac_addr_t
|    |    | | |    +--rw source-mac-mask?          ipi-acl-types:acl_mac_addr_t
|    |    | | +--rw arp-packet-type?               ipi-acl-types:acl_arp_type_t
|    |    | | +--rw source-ip-address?             ipi-acl-types:acl_any_ipv4_src_addr_t
|    |    | | +--rw destination-ip-address?        ipi-acl-types:acl_any_ipv4_dest_addr_t
|    |    | | +--rw (destination-mac-options)?
|    |    | |    +--:(any-mac)
|    |    | |    | +--rw destination-mac-any?      empty
|    |    | |    +--:(host-mac)
|    |    | |    | +--rw destination-mac-host?     ipi-acl-types:acl_mac_addr_t
|    |    | |    +--:(mac-with-mask)
|    |    | |       +--rw destination-mac-address?   ipi-acl-types:acl_mac_addr_t
|    |    | |       +--rw destination-mac-mask?      ipi-acl-types:acl_mac_addr_t
|    |    | +--ro state
|    |    |    +--ro counters
|    |    |    | +--ro matched-packets?   yang:counter64
|    |    |    +--ro forwarding-action?             ipi-acl-types:acl_forwarding_action_t
|    |    |    +--ro vlan-id?                       uint16
|    |    |    +--ro learn-disable?                 empty {feature-list:HAVE_DNX}?
|    |    |    +--ro inner-vlan-id?                 uint16
|    |    |    +--ro (source-mac-options)?
|    |    |    | +--:(any-mac)
|    |    |    | | +--ro source-mac-any?            empty
|    |    |    | +--:(host-mac)
```

```
|    |    |    | | +--ro source-mac-host?          ipi-acl-types:acl_mac_addr_t
|    |    |    | +--:(mac-with-mask)
|    |    |    |    +--ro source-mac-address?       ipi-acl-types:acl_mac_addr_t
|    |    |    |    +--ro source-mac-mask?          ipi-acl-types:acl_mac_addr_t
|    |    |    +--ro arp-packet-type?               ipi-acl-types:acl_arp_type_t
|    |    |    +--ro source-ip-address?             ipi-acl-types:acl_any_ipv4_src_addr_t
|    |    |    +--ro destination-ip-address?        ipi-acl-types:acl_any_ipv4_dest_addr_t
|    |    |    +--ro (destination-mac-options)?
|    |    |      +--:(any-mac)
|    |    |      | +--ro destination-mac-any?       empty
|    |    |      +--:(host-mac)
|    |    |      | +--ro destination-mac-host?      ipi-acl-types:acl_mac_addr_t
|    |    |      +--:(mac-with-mask)
|    |    |        +--ro destination-mac-address?   ipi-acl-types:acl_mac_addr_t
|    |    |        +--ro destination-mac-mask?      ipi-acl-types:acl_mac_addr_t
|    |    +--rw mac
|    |    | +--rw config
|    |    | | +--rw forwarding-action?              ipi-acl-types:acl_forwarding_action_t
|    |    | | +--rw vlan-id?                        uint16
|    |    | | +--rw learn-disable?                  empty {feature-list:HAVE_DNX}?
|    |    | | +--rw inner-vlan-id?                  uint16
|    |    | | +--rw (source-mac-options)?
|    |    | | | +--:(any-mac)
|    |    | | | | +--rw source-mac-any?           empty
|    |    | | | +--:(host-mac)
|    |    | | | | +--rw source-mac-host?          ipi-acl-types:acl_mac_addr_t
|    |    | | | +--:(mac-with-mask)
|    |    | | |    +--rw source-mac-address?       ipi-acl-types:acl_mac_addr_t
|    |    | | |    +--rw source-mac-mask?          ipi-acl-types:acl_mac_addr_t
|    |    | | +--rw ethertype?                      ipi-acl-types:acl_ether_type_t
|    |    | | +--rw arp-packet-type?                ipi-acl-types:acl_arp_packet_type_t
|    |    | | +--rw cos-value?                      uint8
|    |    | | +--rw (destination-mac-options)?
|    |    | |    +--:(any-mac)
|    |    | |    | +--rw destination-mac-any?       empty
|    |    | |    +--:(host-mac)
```


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```
|    |    | |    | +--rw destination-mac-host?      ipi-acl-types:acl_mac_addr_t
|    |    | |    +--:(mac-with-mask)
|    |    | |       +--rw destination-mac-address?   ipi-acl-types:acl_mac_addr_t
|    |    | |       +--rw destination-mac-mask?      ipi-acl-types:acl_mac_addr_t
|    |    | +--ro state
|    |    |    +--ro counters
|    |    |    | +--ro matched-packets?   yang:counter64
|    |    |    +--ro forwarding-action?              ipi-acl-types:acl_forwarding_action_t
|    |    |    +--ro vlan-id?                        uint16
|    |    |    +--ro learn-disable?                  empty {feature-list:HAVE_DNX}?
|    |    |    +--ro inner-vlan-id?                  uint16
|    |    |    +--ro (source-mac-options)?
|    |    |    | +--:(any-mac)
|    |    |    | | +--ro source-mac-any?            empty
|    |    |    | +--:(host-mac)
|    |    |    | | +--ro source-mac-host?           ipi-acl-types:acl_mac_addr_t
|    |    |    | +--:(mac-with-mask)
|    |    |    |    +--ro source-mac-address?        ipi-acl-types:acl_mac_addr_t
|    |    |    |    +--ro source-mac-mask?           ipi-acl-types:acl_mac_addr_t
|    |    |    +--ro ethertype?                      ipi-acl-types:acl_ether_type_t
|    |    |    +--ro arp-packet-type?                ipi-acl-types:acl_arp_packet_type_t
|    |    |    +--ro cos-value?                      uint8
|    |    |    +--ro (destination-mac-options)?
|    |    |       +--:(any-mac)
|    |    |       | +--ro destination-mac-any?       empty
|    |    |       +--:(host-mac)
|    |    |       | +--ro destination-mac-host?      ipi-acl-types:acl_mac_addr_t
|    |    |       +--:(mac-with-mask)
|    |    |          +--ro destination-mac-address?   ipi-acl-types:acl_mac_addr_t
|    |    |          +--ro destination-mac-mask?      ipi-acl-types:acl_mac_addr_t
|    |    +--rw copp {feature-list:HAVE_COPP_FILTER}?
|    |       +--rw ipv4
|    |       | +--rw config
|    |       | | +--rw forwarding-action?               ipi-acl-types:acl_forwarding_action_t
|    |       | | +--rw log-action?                      uint32 {feature-list:HAVE_SFLOW}?
|    |       | | +--rw ttl?                             uint8
```

```
|   |       | | +--rw ip-options?                    empty
|   |       | | +--rw fragments?                     empty
|   |       | | +--rw (protocol)?
|   |       | | | +--:(tcp)
|   |       | | | | +--rw protocol-tcp?              empty
|   |       | | | | +--rw tcp-source-port?           ipi-acl-types:acl_tcp_src_port_t
|   |       | | | | +--rw tcp-destination-port?      ipi-acl-types:acl_tcp_dest_port_t
|   |       | | | | +--rw tcp-flags?                 ipi-acl-types:acl_tcp_flags_t
|   |       | | | +--:(udp)
|   |       | | | | +--rw protocol-udp?              empty
|   |       | | | | +--rw udp-source-port?           ipi-acl-types:acl_udp_src_port_t
|   |       | | | | +--rw udp-destination-port?      ipi-acl-types:acl_udp_dest_port_t
|   |       | | | +--:(icmp)
|   |       | | | | +--rw protocol-icmp?             empty
|   |       | | | | +--rw icmp-type?                 uint8
|   |       | | | +--:(other-protocols)
|   |       | | |    +--rw protocol-name?           ipi-acl-types:acl_ip_protocols_t
|   |       | | +--rw (source-ipv4-type)?
|   |       | | | +--:(source-ipv4-address-type)
|   |       | | | | +--rw source-address?            ipi-acl-types:acl_any_ipv4_src_addr_t
|   |       | | | +--:(source-ipv4-prefix-group-type)
|   |       | | |    +--rw source-prefix-group?     -> /ipi-prefix-group:prefix-groups/prefix-group/name
|   |       | | +--rw (destination-ipv4-type)?
|   |       | | | +--:(destination-ipv4-address-type)
|   |       | | | | +--rw destination-address?       ipi-acl-types:acl_any_ipv4_dest_addr_t
|   |       | | | +--:(destination-ipv4-prefix-group-type)
|   |       | | |    +--rw destination-prefix-group?  -> /ipi-prefix-group:prefix-groups/prefix-group/name
|   |       | | +--rw source-port-operator?          ipi-acl-types:acl_copp_src_port_operations_t
|   |       | | +--rw destination-port-operator?     ipi-acl-types:acl_copp_dest_port_operations_t
|   |       | | +--rw lower-source-port-in-range?    uint16
|   |       | | +--rw upper-source-port-in-range?    uint16
|   |       | | +--rw lower-destination-port-in-range?  uint16
|   |       | | +--rw upper-destination-port-in-range?  uint16
|   |       | +--ro state
|   |       |    +--ro forwarding-action?          ipi-acl-types:acl_forwarding_action_t
|   |       |    +--ro log-action?                 uint32 {feature-list:HAVE_SFLOW}?
```


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```
|   |       |   +--ro ttl?                        uint8
|   |       |   +--ro ip-options?                 empty
|   |       |   +--ro fragments?                  empty
|   |       |   +--ro (protocol)?
|   |       |   | +--:(tcp)
|   |       |   | | +--ro protocol-tcp?           empty
|   |       |   | | +--ro tcp-source-port?        ipi-acl-types:acl_tcp_src_port_t
|   |       |   | | +--ro tcp-destination-port?   ipi-acl-types:acl_tcp_dest_port_t
|   |       |   | | +--ro tcp-flags?              ipi-acl-types:acl_tcp_flags_t
|   |       |   | +--:(udp)
|   |       |   | | +--ro protocol-udp?           empty
|   |       |   | | +--ro udp-source-port?        ipi-acl-types:acl_udp_src_port_t
|   |       |   | | +--ro udp-destination-port?   ipi-acl-types:acl_udp_dest_port_t
|   |       |   | +--:(icmp)
|   |       |   | | +--ro protocol-icmp?          empty
|   |       |   | | +--ro icmp-type?              uint8
|   |       |   | +--:(other-protocols)
|   |       |   |   +--ro protocol-name?          ipi-acl-types:acl_ip_protocols_t
|   |       |   +--ro (source-ipv4-type)?
|   |       |   | +--:(source-ipv4-address-type)
|   |       |   | | +--ro source-address?         ipi-acl-types:acl_any_ipv4_src_addr_t
|   |       |   | +--:(source-ipv4-prefix-group-type)
|   |       |   |   +--ro source-prefix-group?    -> /ipi-prefix-group:prefix-groups/prefix-group/name
|   |       |   +--ro (destination-ipv4-type)?
|   |       |   | +--:(destination-ipv4-address-type)
|   |       |   | | +--ro destination-address?    ipi-acl-types:acl_any_ipv4_dest_addr_t
|   |       |   | +--:(destination-ipv4-prefix-group-type)
|   |       |   |   +--ro destination-prefix-group?  -> /ipi-prefix-group:prefix-groups/prefix-group/name
|   |       |   +--ro source-port-operator?         ipi-acl-types:acl_copp_src_port_operations_t
|   |       |   +--ro destination-port-operator?    ipi-acl-types:acl_copp_dest_port_operations_t
|   |       |   +--ro lower-source-port-in-range?   uint16
|   |       |   +--ro upper-source-port-in-range?   uint16
|   |       |   +--ro lower-destination-port-in-range?  uint16
|   |       |   +--ro upper-destination-port-in-range?  uint16
|   |       +--rw ipv6 {feature-list:HAVE_IPV6}?
|   |         +--rw config
```

```
|  |     | +--rw forwarding-action?              ipi-acl-types:acl_forwarding_action_t
|  |     | +--rw log-action?                     uint32 {feature-list:HAVE_SFLOW}?
|  |     | +--rw hop-limit?                      uint8
|  |     | +--rw (protocol)?
|  |     | | +--:(tcp)
|  |     | | | +--rw protocol-tcp?               empty
|  |     | | | +--rw tcp-source-port?            ipi-acl-types:acl_tcp_src_port_t
|  |     | | | +--rw tcp-destination-port?       ipi-acl-types:acl_tcp_dest_port_t
|  |     | | +--:(udp)
|  |     | | | +--rw protocol-udp?               empty
|  |     | | | +--rw udp-source-port?            ipi-acl-types:acl_udp_src_port_t
|  |     | | | +--rw udp-destination-port?       ipi-acl-types:acl_udp_dest_port_t
|  |     | | +--:(icmp)
|  |     | | | +--rw protocol-icmpv6?            empty
|  |     | | +--:(other-protocols)
|  |     | |    +--rw protocol-name?             ipi-acl-types:acl_copp_ipv6_protocols_t
|  |     | +--rw (source-ipv6-type)?
|  |     | | +--:(source-ipv6-address-type)
|  |     | | | +--rw source-address?             ipi-acl-types:acl_copp_any_ipv6_src_addr_t
|  |     | | +--:(source-ipv6-prefix-group-type)
|  |     | |    +--rw source-prefix-group?       -> /ipi-prefix-group:prefix-groups/prefix-group/name
|  |     | +--rw (destination-ipv6-type)?
|  |     | | +--:(destination-ipv6-address-type)
|  |     | | | +--rw destination-address?        ipi-acl-types:acl_copp_any_ipv6_dest_addr_t
|  |     | | +--:(destination-ipv6-prefix-group-type)
|  |     | |    +--rw destination-prefix-group?   -> /ipi-prefix-group:prefix-groups/prefix-group/name
|  |     | +--rw source-port-operator?           ipi-acl-types:acl_copp_src_port_operations_t
|  |     | +--rw destination-port-operator?      ipi-acl-types:acl_copp_dest_port_operations_t
|  |     | +--rw lower-source-port-in-range?     uint16
|  |     | +--rw upper-source-port-in-range?     uint16
|  |     | +--rw lower-destination-port-in-range?  uint16
|  |     | +--rw upper-destination-port-in-range?  uint16
|  |     +--ro state
|  |       +--ro forwarding-action?              ipi-acl-types:acl_forwarding_action_t
|  |       +--ro log-action?                     uint32 {feature-list:HAVE_SFLOW}?
|  |       +--ro hop-limit?                      uint8
```


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```
|    |          +--ro (protocol)?
|    |          |  +--:(tcp)
|    |          |  |  +--ro protocol-tcp?              empty
|    |          |  |  +--ro tcp-source-port?           ipi-acl-types:acl_tcp_src_port_t
|    |          |  |  +--ro tcp-destination-port?      ipi-acl-types:acl_tcp_dest_port_t
|    |          |  +--:(udp)
|    |          |  |  +--ro protocol-udp?              empty
|    |          |  |  +--ro udp-source-port?           ipi-acl-types:acl_udp_src_port_t
|    |          |  |  +--ro udp-destination-port?      ipi-acl-types:acl_udp_dest_port_t
|    |          |  +--:(icmp)
|    |          |  |  +--ro protocol-icmpv6?           empty
|    |          |  +--:(other-protocols)
|    |          |     +--ro protocol-name?             ipi-acl-types:acl_copp_ipv6_protocols_t
|    |          +--ro (source-ipv6-type)?
|    |          |  +--:(source-ipv6-address-type)
|    |          |  |  +--ro source-address?            ipi-acl-types:acl_copp_any_ipv6_src_addr_t
|    |          |  +--:(source-ipv6-prefix-group-type)
|    |          |     +--ro source-prefix-group?       -> /ipi-prefix-group:prefix-groups/prefix-group/name
|    |          +--ro (destination-ipv6-type)?
|    |          |  +--:(destination-ipv6-address-type)
|    |          |  |  +--ro destination-address?       ipi-acl-types:acl_copp_any_ipv6_dest_addr_t
|    |          |  +--:(destination-ipv6-prefix-group-type)
|    |          |     +--ro destination-prefix-group?   -> /ipi-prefix-group:prefix-groups/prefix-group/name
|    |          +--ro source-port-operator?             ipi-acl-types:acl_copp_src_port_operations_t
|    |          +--ro destination-port-operator?        ipi-acl-types:acl_copp_dest_port_operations_t
|    |          +--ro lower-source-port-in-range?       uint16
|    |          +--ro upper-source-port-in-range?       uint16
|    |          +--ro lower-destination-port-in-range?  uint16
|    |          +--ro upper-destination-port-in-range?  uint16
|    +--ro summary-info
|       +--ro state
|       |  +--ro counters
|       |  |  +--ro total-acl-entries?   yang:counter32
|       |  +--ro statistics-enabled?   empty
|       +--ro interfaces
|       |  +--ro interface* [interface-name]
```

```
|       |     +--ro interface-name    -> ../state/interface-name
|       |     +--ro state
|       |       +--ro interface-name?     -> /ipi-interface:interfaces/interface/name
|       |       +--ro filter-direction?   ipi-acl-types:acl_filter_direction_t
|       |       +--ro interface-type?     ipi-acl-types:acl_interface_type_t
|       |       +--ro interface-status?   ipi-acl-types:acl_interface_status_t
|       +--ro vty-line
|         +--ro state
|           +--ro filter-direction?   ipi-acl-types:acl_filter_direction_t
+--rw standard-acl-sets
|  +--rw standard-acl-set* [name type]
|     +--rw name               -> ../config/name
|     +--rw type               -> ../config/type
|     +--rw config
|     |  +--rw name?   string
|     |  +--rw type?   ipi-acl-types:acl_standard_types_t
|     +--ro state
|     |  +--ro name?   string
|     |  +--ro type?   ipi-acl-types:acl_standard_types_t
|     +--rw ipv4-acl-entries
|     |  +--rw ipv4-acl-entry* [source-address]
|     |     +--rw source-address    -> ../config/source-address
|     |     +--rw config
|     |     |  +--rw source-address?      ipi-acl-types:acl_any_ipv4_src_addr_t
|     |     |  +--rw forwarding-action    ipi-acl-types:acl_forwarding_action_t
|     |     +--ro state
|     |        +--ro source-address?      ipi-acl-types:acl_any_ipv4_src_addr_t
|     |        +--ro forwarding-action    ipi-acl-types:acl_forwarding_action_t
|     +--rw ipv6-acl-entries {feature-list:HAVE_IPV6}?
|        +--rw ipv6-acl-entry* [source-address]
|           +--rw source-address    -> ../config/source-address
|           +--rw config
|           |  +--rw source-address?      ipi-acl-types:acl_any_ipv6_src_addr_t
|           |  +--rw forwarding-action    ipi-acl-types:acl_forwarding_action_t
|           +--ro state
|              +--ro source-address?      ipi-acl-types:acl_any_ipv6_src_addr_t
```


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```
|            +--ro forwarding-action    ipi-acl-types:acl_forwarding_action_t
+--rw interfaces
|  +--rw interface* [name]
|     +--rw name               -> ../config/name
|     +--rw config
|     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
|     +--ro state
|     |  +--ro name?   -> /ipi-interface:interfaces/interface/name
|     +--rw ingress-acl-sets
|     |  +--rw ingress-acl-set* [acl-type]
|     |     +--rw acl-type         -> ../config/acl-type
|     |     +--rw config
|     |     |  +--rw acl-type?   ipi-acl-types:acl_types_t
|     |     +--ro state
|     |     |  +--ro acl-type?   ipi-acl-types:acl_types_t
|     |     +--rw access-groups
|     |        +--rw access-group* [acl-name]
|     |           +--rw acl-name    -> ../config/acl-name
|     |           +--rw config
|     |           |  +--rw acl-name?     string
|     |           |  +--rw time-range?   string
|     |           +--ro state
|     |              +--ro acl-name?     string
|     |              +--ro time-range?   string
|     +--rw egress-acl-sets
|        +--rw egress-acl-set* [acl-type]
|           +--rw acl-type         -> ../config/acl-type
|           +--rw config
|           |  +--rw acl-type?   ipi-acl-types:acl_types_t
|           +--ro state
|           |  +--ro acl-type?   ipi-acl-types:acl_types_t
|           +--rw access-groups
|              +--rw access-group* [acl-name]
|                 +--rw acl-name    -> ../config/acl-name
|                 +--rw config
|                 |  +--rw acl-name?     string
```

```
   |              | +--rw time-range?   string
   |              +--ro state
   |                +--ro acl-name?     string
   |                +--ro time-range?   string
   +--rw vty-line
   | +--rw ingress-acl-sets
   | | +--rw ingress-acl-set* [acl-type]
   | |    +--rw acl-type    -> ../config/acl-type
   | |    +--rw config
   | |    | +--rw acl-type?   ipi-acl-types:acl_vty_types_t
   | |    | +--rw acl-name?   string
   | |    +--ro state
   | |       +--ro acl-type?   ipi-acl-types:acl_vty_types_t
   | |       +--ro acl-name?   string
   | +--rw egress-acl-sets
   |    +--rw egress-acl-set* [acl-type]
   |       +--rw acl-type    -> ../config/acl-type
   |       +--rw config
   |       | +--rw acl-type?   ipi-acl-types:acl_vty_types_t
   |       | +--rw acl-name?   string
   |       +--ro state
   |          +--ro acl-type?   ipi-acl-types:acl_vty_types_t
   |          +--ro acl-name?   string
   +--rw global
      +--ro state
         +--ro counters
            +--ro total-global-acl-entries?   yang:counter32

 rpcs:
   +---x clear-access-list-counters-all {feature-list:HAVE_ACL}?
   +---x clear-access-list-counters {feature-list:HAVE_ACL}?
   | +---w input
   |    +---w name    string
   +---x clear-ip-access-list-counters-all {feature-list:HAVE_ACL}?
   +---x clear-ip-access-list-counters {feature-list:HAVE_ACL}?
   | +---w input
```


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```
|    +---w name    string
+---x clear-ipv6-access-list-counters-all {feature-list:HAVE_IPV6}?
+---x clear-ipv6-access-list-counters {feature-list:HAVE_IPV6}?
| +---w input
|    +---w name    string
+---x clear-mac-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-mac-access-list-counters {feature-list:HAVE_ACL}?
| +---w input
|    +---w name    string
+---x clear-arp-access-list-counters-all {feature-list:HAVE_ACL}?
+---x clear-arp-access-list-counters {feature-list:HAVE_ACL}?
  +---w input
     +---w name    string

notifications:
+---n acl-copp-ipv4-prefix-install-failure {feature-list:HAVE_COPP_FILTER}?
| +--ro severity?             cml-data-types:cml_notif_severity_t
| +--ro eventClass?           cml-data-types:cml_notif_class_t
| +--ro name?                 string
| +--ro type?                 ipi-acl-types:acl_types_t
| +--ro sequence-id?          uint32
| +--ro source-address?       ipi-acl-types:acl_any_ipv4_src_addr_t
| +--ro destination-address?  ipi-acl-types:acl_any_ipv4_dest_addr_t
+---n acl-copp-ipv6-prefix-install-failure {feature-list:HAVE_COPP_FILTER}?
  +--ro severity?             cml-data-types:cml_notif_severity_t
  +--ro eventClass?           cml-data-types:cml_notif_class_t
  +--ro name?                 string
  +--ro type?                 ipi-acl-types:acl_types_t
  +--ro sequence-id?          uint32
  +--ro source-address?       ipi-acl-types:acl_copp_any_ipv6_src_addr_t
  +--ro destination-address?  ipi-acl-types:acl_copp_any_ipv6_dest_addr_t
```

ipi-alarms

```
+--rw alarms
```

```
   +--ro alarm* [id]
      +--ro id       -> ../state/id
      +--ro state
         +--ro id?                       string
         +--ro resource?                 string
         +--ro text?                     string
         +--ro time-created?             uint64
         +--ro alarm-reported-timestamp?   ipi-alarms-types:alarm_date_time_t
         +--ro alarm-severity?           ipi-alarms-types:alarm_severity_t
         +--ro type-id?                  ipi-alarms-types:alarm_type_id_t

augment /ipi-platform:components/ipi-platform:component/ipi-platform:state:
  +--ro component-alarm {feature-list:HAVE_CMMD}?
     +--ro equipment-failure?   boolean

notifications:
  +---n alarm
     +--ro severity?                 cml-data-types:cml_notif_severity_t
     +--ro eventClass?               cml-data-types:cml_notif_class_t
     +--ro id?                       string
     +--ro resource?                 string
     +--ro text?                     string
     +--ro time-created?             uint64
     +--ro alarm-reported-timestamp?   ipi-alarms-types:alarm_date_time_t
     +--ro alarm-severity?           ipi-alarms-types:alarm_severity_t
     +--ro type-id?                  ipi-alarms-types:alarm_type_id_t
     +--ro is-clear?                 boolean
```

ipi-arp

```
  +--rw arp
     +--rw entries
     |  +--rw entry* [vrf-name ip-address]
     |     +--rw vrf-name      -> ../config/vrf-name
     |     +--rw ip-address    -> ../config/ip-address
```


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```
    |     +--rw config
    |     | +--rw vrf-name?                -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |     | +--rw ip-address?              inet:ipv4-address
    |     | +--rw mac-address              cml-data-types:cml_mac_addr_t
    |     | +--rw respond-to-arp-request?   empty
    |     +--ro state
    |       +--ro vrf-name?                -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |       +--ro ip-address?              inet:ipv4-address
    |       +--ro mac-address              cml-data-types:cml_mac_addr_t
    |       +--ro respond-to-arp-request?    empty
    |       +--ro arp-age?                 string
    |       +--ro interface-name?          string
    |       +--ro physical-interface-name?   string
    |       +--ro arp-state?               ipi-arp-types:ndd_arp_state_t
    |       +--ro interface-state?         ipi-arp-types:ndd_arp_if_type_t
    +--rw global {feature-list:HAVE_CUSTOM2_NDD}?
    | +--rw config {feature-list:HAVE_CUSTOM2_NDD}?
    | | +--rw icmp-redirect?   empty
    | +--ro state {feature-list:HAVE_CUSTOM2_NDD}?
    |   +--ro icmp-redirect?   empty
    +--rw debug
    | +--rw config
    | | +--rw enable?   empty
    | +--ro state
    |   +--ro enable?                empty
    |   +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
    +--rw interfaces
    | +--rw interface* [name]
    |   +--rw name      -> ../config/name
    |   +--rw config
    |   | +--rw name?                  -> /ipi-interface:interfaces/interface/name
    |   | +--rw enable-proxy-arp?        empty
    |   | +--rw enable-local-proxy-arp?   empty
    |   | +--rw enable-ip-redirects?      empty
    |   | +--rw arp-ageing-timeout?       uint16
```

```
|    | +--rw arp-reachable-time?       uint16
|    +--ro state
|       +--ro name?                    -> /ipi-interface:interfaces/interface/name
|       +--ro enable-proxy-arp?         empty
|       +--ro enable-local-proxy-arp?   empty
|       +--ro enable-ip-redirects?      empty
|       +--ro arp-ageing-timeout?       uint16
|       +--ro arp-reachable-time?       uint16
+--ro dynamic-arp* [vrf-name]
   +--ro vrf-name             string
   +--ro entry* [ipv4-address]
   | +--ro ipv4-address              inet:ipv4-address
   | +--ro mac-address?              cml-data-types:cml_mac_addr_t
   | +--ro arp-age?                  string
   | +--ro interface-name?           string
   | +--ro physical-interface-name?  string
   | +--ro arp-state?                ipi-arp-types:ndd_arp_state_t
   | +--ro interface-state?          ipi-arp-types:ndd_arp_if_type_t
   +--ro adjacency-summary
      +--ro resolved-arp?     uint32
      +--ro incomplete-arp?   uint32
      +--ro unknown-arp?      uint32
      +--ro total-arp?        uint32

rpcs:
  +---x arp-terminal-debug-on {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
  +---x arp-terminal-debug-off {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
  +---x clear-arp-entry {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
  | +---w input
  |    +---w ip-address?   inet:ipv4-address
  |    +---w vrf-name?     string
  +---x clear-arp-entry-per-interface {feature-list:HAVE_L3,feature-list:HAVE_NDD}?
     +---w input
        +---w if-name     string
        +---w vrf-name?   string
```


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ipi-authentication-radius

```
+--rw authentication-radius {feature-list:HAVE_ENCRYPT_CLEARTEXT}?
  +--rw global
  |  +--rw config
  |  |  +--rw source-address?          inet:ipv4-address
  |  |  +--rw port?                    uint16
  |  |  +--rw timeout?                 uint8
  |  |  +--rw retransmit-max-retries?  uint8
  |  |  +--rw (key-type)?
  |  |     +--:(key-string)
  |  |     |  +--rw key-string?        string
  |  |     +--:(encrypted)
  |  |        +--rw encryption-key?    string
  |  +--ro state
  |     +--ro source-address?          inet:ipv4-address
  |     +--ro port?                    uint16
  |     +--ro timeout?                 uint8
  |     +--ro retransmit-max-retries?  uint8
  |     +--ro (key-type)?
  |        +--:(key-string)
  |        |  +--ro key-string?        string
  |        +--:(encrypted)
  |           +--ro encryption-key?    string
  +--rw hosts
     +--rw host* [host-address]
        +--rw host-address    -> ../config/host-address
        +--rw config
        |  +--rw host-address?               inet:ipv4-address
        |  +--rw host-port?                  uint16
        |  +--rw host-timeout?               uint8
        |  +--rw host-retransmit-max-retries?  uint8
        |  +--rw (host-key-type)?
        |     +--:(key-string)
```

```
|    | +--rw key-string?              string
|    +--:(encrypted)
|       +--rw encryption-key?         string
+--ro state
   +--ro host-address?                        inet:ipv4-address
   +--ro host-port?                           uint16
   +--ro host-timeout?                        uint8
   +--ro host-retransmit-max-retries?         uint8
   +--ro (host-key-type)?
   | +--:(key-string)
   | | +--ro key-string?                      string
   | +--:(encrypted)
   |    +--ro encryption-key?                 string
   +--ro next-radius-message-id?              uint8
   +--ro encryption-key-operational?          string
   +--ro host-port-operational?               uint16
   +--ro host-timeout-operational?            uint8
   +--ro host-retransmit-max-retries-operational?   uint8
```

ipi-authentication

```
+--rw authentication {feature-list:HAVE_AUTHD}?
  +--rw global
  | +--rw config
  | | +--rw mac-authentication?     empty {feature-list:HAVE_MAC_AUTH}?
  | | +--rw dot1x-authentication?   empty
  | +--ro state
  |    +--ro mac-authentication?     empty {feature-list:HAVE_MAC_AUTH}?
  |    +--ro dot1x-authentication?   empty
  +--rw dot1x-interfaces
  | +--rw dot1x-interface* [name]
  |    +--rw name                              -> ../config/name
  |    +--rw config
  |    | +--rw name?              -> /ipi-interface:interfaces/interface/name
  |    | +--rw dot1x-control      ipi-authentication-types:auth_dot1x_control_t
```


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```
|    | +--rw protocol-version?   ipi-authentication-types:auth_dot1x_eapol_version_t
|    +--ro state
|    | +--ro name?              -> /ipi-interface:interfaces/interface/name
|    | +--ro dot1x-control      ipi-authentication-types:auth_dot1x_control_t
|    | +--ro protocol-version?  ipi-authentication-types:auth_dot1x_eapol_version_t
|    +--ro auth-dot1x-interface-operational
|    | +--ro state
|    |    +--ro dot1x-control-operational?  ipi-authentication-types:auth_dot1x_control_t
|    |    +--ro supplicant-name?            string
|    |    +--ro supplicant-mac-address?     ipi-authentication-types:auth_dot1x_mac_address_t
|    |    +--ro port-enabled?               boolean
|    |    +--ro authentication-abort?       boolean
|    |    +--ro authentication-fail?        boolean
|    |    +--ro authentication-start?       boolean
|    |    +--ro authentication-timeout?     boolean
|    |    +--ro authentication-success?     boolean
|    |    +--ro key-available?              boolean
|    |    +--ro key-tx-enabled?             boolean
|    +--ro authentication-control-dir-operational
|    | +--ro state
|    |    +--ro admin-controlled-directions?  ipi-authentication-types:auth_dot1x_control_dir_t
|    |    +--ro oper-controlled-directions?   ipi-authentication-types:auth_dot1x_control_dir_t
|    |    +--ro bridge-detected?              boolean
|    +--ro authentication-key-received-operational
|    | +--ro state
|    |    +--ro rx-key?  boolean
|    +--rw authenticator-pae
|    | +--rw config
|    | | +--rw quiet-period?      uint16
|    | | +--rw max-reauth-value?  uint8
|    | | +--rw interval-period?   uint16
|    | +--ro state
|    |    +--ro quiet-period?      uint16
|    |    +--ro max-reauth-value?  uint8
|    |    +--ro interval-period?   uint16
|    +--ro auth-authenticator-pae-operational
```

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```
    |    | +--ro state
    |    |    +--ro quiet-period-operational?       uint16
    |    |    +--ro max-reauth-value-operational?   uint8
    |    |    +--ro interval-period-operational?    uint16
    |    |    +--ro port-status?                    ipi-authentication-types:auth_dot1x_port_status_t
    |    |    +--ro pae-state?                      ipi-authentication-types:auth_dot1x_pae_state_t
    |    |    +--ro port-mode?                      ipi-authentication-types:auth_dot1x_port_ctrl_t
    |    |    +--ro reauth-count?                   uint32
    |    |    +--ro rx-response-id?                 uint32
    |    +--rw reauthentication-timer
    |    | +--rw config
    |    | | +--rw reauthentication-period?   uint32
    |    | | +--rw enable-reauthentication?   empty
    |    | | +--rw enable-mac-auth-bypass?    ipi-authentication-types:auth_dot1x_mac_auth_bypass_t {feature-
list:HAVE_MAC_AUTH}?
    |    | +--ro state
    |    |    +--ro reauthentication-period?   uint32
    |    |    +--ro enable-reauthentication?   empty
    |    |    +--ro enable-mac-auth-bypass?    ipi-authentication-types:auth_dot1x_mac_auth_bypass_t {feature-
list:HAVE_MAC_AUTH}?
    |    +--ro reauthentication-timer-operational
    |    | +--ro state
    |    |    +--ro reauthentication-period-operational?   uint32
    |    |    +--ro enable-reauthentication-operational?   empty
    |    |    +--ro dot1x-timer?                           ipi-authentication-types:auth_mac_dot1x_timer_status_t {feature-
list:HAVE_MAC_AUTH}?
    |    |    +--ro mac-status?                            ipi-authentication-types:auth_mac_status_t {feature-
list:HAVE_MAC_AUTH}?
    |    |    +--ro last-rejected-mac?                     ipi-authentication-types:auth_dot1x_mac_address_t {feature-
list:HAVE_MAC_AUTH}?
    |    +--rw authenticator-be
    |    | +--rw config
    |    | | +--rw supplicant-timeout?   uint16
    |    | | +--rw server-timeout?       uint16
    |    | +--ro state
    |    |    +--ro supplicant-timeout?   uint16
    |    |    +--ro server-timeout?       uint16
    |    +--ro authenticator-be-operational
```


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```
  |       +--ro state
  |          +--ro supplicant-timeout-operational?   uint16
  |          +--ro server-timeout-operational?       uint16
  |          +--ro current-id?                       uint8
  |          +--ro be-state?                         ipi-authentication-types:auth_be_state_t
  |          +--ro req-count?                        uint8
  |          +--ro id-from-server?                   uint8
  +--rw mac-interfaces {feature-list:HAVE_MAC_AUTH}?
  |  +--rw mac-interface* [name]
  |     +--rw name      -> ../config/name
  |     +--rw config
  |     |  +--rw name?                  -> /ipi-interface:interfaces/interface/name
  |     |  +--rw mac-control             empty
  |     |  +--rw mac-mode?               ipi-authentication-types:auth_mac_mode_t
  |     |  +--rw dynamic-vlan-creation?   empty
  |     |  +--rw mac-address-aging?       empty
  |     +--ro state
  |        +--ro name?                  -> /ipi-interface:interfaces/interface/name
  |        +--ro mac-control             empty
  |        +--ro mac-mode?               ipi-authentication-types:auth_mac_mode_t
  |        +--ro dynamic-vlan-creation?   empty
  |        +--ro mac-address-aging?       empty
  +--rw debug
     +--rw config
     |  +--rw options?   ipi-authentication-types:auth_dot1x_debug_t
     +--ro state
        +--ro options?                ipi-authentication-types:auth_dot1x_debug_t
        +--ro terminal-debug-status?   ipi-authentication-types:auth_dot1x_debug_t

rpcs:
  +---x dot1x-authentication-initialize-interface {feature-list:HAVE_MAC_AUTH}?
  |  +---w input
  |     +---w name    string
  +---x dot1x-authentication-snmp-restart {feature-list:HAVE_SNMP}?
  +---x dot1x-authentication-terminal-debug-on {feature-list:HAVE_AUTHD}?
  |  +---w input
```

```
|    +---w terminal-debug-options    ipi-authentication-types:auth_dot1x_debug_t
+---x dot1x-authentication-terminal-debug-off {feature-list:HAVE_AUTHD}?
  +---w input
    +---w terminal-debug-options    ipi-authentication-types:auth_dot1x_debug_t
```

ipi-bfd

```
+--rw bfd
  +--rw global
  | +--rw config
  | | +--rw notification-enabled?   boolean {feature-list:HAVE_BFD_MONO}?
  | | +--rw echo-mode-enabled?      empty {feature-list:HAVE_BFD_MONO}?
  | | +--rw slow-tx-interval?       uint32 {feature-list:HAVE_BFD_MONO}?
  | +--ro state
  | | +--ro notification-enabled?         boolean {feature-list:HAVE_BFD_MONO}?
  | | +--ro echo-mode-enabled?            empty {feature-list:HAVE_BFD_MONO}?
  | | +--ro slow-tx-interval?             uint32 {feature-list:HAVE_BFD_MONO}?
  | | +--ro start-time?                   yang:timeticks {feature-list:HAVE_BFD_MONO}?
  | | +--ro administrative-state?         ipi-bfd-types:oambfd_admin_state_t {feature-list:HAVE_BFD_MONO}?
  | | +--ro image-type?                   ipi-bfd-types:oambfd_image_type_t {feature-list:HAVE_BFD_MONO}?
  | | +--ro next-session-discriminator?   string {feature-list:HAVE_BFD_MONO}?
  | | +--ro counters
  | |    +--ro total-sessions?   yang:counter32
  | +--rw multihop-peer-intervals
  | | +--rw multihop-peer-interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier]
{feature-list:HAVE_BFD_MONO}?
  | |    +--rw desired-minimum-tx-interval     -> ../config/desired-minimum-tx-interval
  | |    +--rw required-minimum-rx-interval    -> ../config/required-minimum-rx-interval
  | |    +--rw detection-multiplier            -> ../config/detection-multiplier
  | |    +--rw config
  | |    | +--rw desired-minimum-tx-interval?    uint32
  | |    | +--rw required-minimum-rx-interval?   uint32
```


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```
    | |    | +--rw detection-multiplier?          uint8
    | |    +--ro state
    | |       +--ro desired-minimum-tx-interval?    uint32
    | |       +--ro required-minimum-rx-interval?   uint32
    | |       +--ro detection-multiplier?           uint8
    | +--rw intervals
    |    +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
    |       +--rw desired-minimum-tx-interval     -> ../config/desired-minimum-tx-interval
    |       +--rw required-minimum-rx-interval    -> ../config/required-minimum-rx-interval
    |       +--rw detection-multiplier            -> ../config/detection-multiplier
    |       +--rw config
    |       | +--rw desired-minimum-tx-interval?    uint32
    |       | +--rw required-minimum-rx-interval?   uint32
    |       | +--rw detection-multiplier?           uint8
    |       +--ro state
    |          +--ro desired-minimum-tx-interval?    uint32
    |          +--ro required-minimum-rx-interval?   uint32
    |          +--ro detection-multiplier?           uint8
    +--rw peers
    | +--rw peer* [remote-address]
    |    +--rw remote-address    -> ../config/remote-address
    |    +--rw config
    |    | +--rw remote-address?   inet:ip-address
    |    +--ro state
    |    | +--ro remote-address?   inet:ip-address
    |    +--rw intervals
    |    | +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
    |    |    +--rw desired-minimum-tx-interval     -> ../config/desired-minimum-tx-interval
    |    |    +--rw required-minimum-rx-interval    -> ../config/required-minimum-rx-interval
    |    |    +--rw detection-multiplier            -> ../config/detection-multiplier
    |    |    +--rw config
    |    |    | +--rw desired-minimum-tx-interval?    uint32
    |    |    | +--rw required-minimum-rx-interval?   uint32
    |    |    | +--rw detection-multiplier?           uint8
    |    |    +--ro state
```

```
|    |       +--ro desired-minimum-tx-interval?    uint32
|    |       +--ro required-minimum-rx-interval?   uint32
|    |       +--ro detection-multiplier?           uint8
|    +--rw authentication
|       +--rw config
|       |  +--rw key-type?             ipi-bfd-types:bfd_multihop_auth_type_t
|       |  +--rw (key-option)?
|       |     +--:(key-id)
|       |     |  +--rw key-id?         uint32
|       |     |  +--rw key-encrypted?   ipi-bfd-types:oambfd_encrypt_key_t
|       |     |  +--rw key-string?      string
|       |     +--:(key-chain)
|       +--ro state
|          +--ro key-type?             ipi-bfd-types:bfd_multihop_auth_type_t
|          +--ro (key-option)?
|             +--:(key-id)
|             |  +--ro key-id?         uint32
|             |  +--ro key-encrypted?   ipi-bfd-types:oambfd_encrypt_key_t
|             |  +--ro key-string?      string
|             +--:(key-chain)
+--rw debug
|  +--rw config
|  |  +--rw options?          ipi-bfd-types:bfd_debug_t
|  |  +--rw enable-oam-srv6?   empty {feature-list:HAVE_SRV6}?
|  +--ro state
|     +--ro options?                ipi-bfd-types:bfd_debug_t
|     +--ro enable-oam-srv6?        empty {feature-list:HAVE_SRV6}?
|     +--ro terminal-debug-status?   ipi-bfd-types:bfd_debug_t
+--rw interfaces
|  +--rw interface* [name]
|     +--rw name              -> ../config/name
|     +--rw config
|     |  +--rw name?              -> /ipi-interface:interfaces/interface/name
|     |  +--rw bfd-disabled?      empty
|     |  +--rw bfd-session-type?   ipi-bfd-types:oambfd_session_type_t {feature-list:HAVE_BFD_HW_OFFLOAD}?
|     +--ro state
```


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```
|  |  +--ro name?              -> /ipi-interface:interfaces/interface/name
|  |  +--ro bfd-disabled?      empty
|  |  +--ro bfd-session-type?  ipi-bfd-types:oambfd_session_type_t {feature-list:HAVE_BFD_HW_OFFLOAD}?
|  |  +--ro interface-index?   uint32
|  |  +--ro interface-state?   ipi-bfd-types:oambfd_if_state_t
|  +--rw intervals
|  |  +--rw interval* [desired-minimum-tx-interval required-minimum-rx-interval detection-multiplier] {feature-
list:HAVE_BFD_MONO}?
|  |     +--rw desired-minimum-tx-interval     -> ../config/desired-minimum-tx-interval
|  |     +--rw required-minimum-rx-interval    -> ../config/required-minimum-rx-interval
|  |     +--rw detection-multiplier            -> ../config/detection-multiplier
|  |     +--rw config
|  |     |  +--rw desired-minimum-tx-interval?    uint32
|  |     |  +--rw required-minimum-rx-interval?   uint32
|  |     |  +--rw detection-multiplier?           uint8
|  |     +--ro state
|  |        +--ro desired-minimum-tx-interval?    uint32
|  |        +--ro required-minimum-rx-interval?   uint32
|  |        +--ro detection-multiplier?           uint8
|  +--rw echo
|  |  +--rw config
|  |  |  +--rw ipv4-source?                  inet:ipv4-address
|  |  |  +--rw required-minimum-tx-interval?   uint32
|  |  +--ro state
|  |     +--ro ipv4-source?                  inet:ipv4-address
|  |     +--ro required-minimum-tx-interval?   uint32
|  +--rw authentication
|  |  +--rw config
|  |  |  +--rw key-type?             ipi-bfd-types:bfd_multihop_auth_type_t
|  |  |  +--rw (key-option)?
|  |  |     +--:(key-id)
|  |  |     |  +--rw key-id?         uint32
|  |  |     |  +--rw key-encrypted?  ipi-bfd-types:oambfd_encrypt_key_t
|  |  |     |  +--rw key-string?     string
|  |  |     +--:(key-chain)
|  |  +--ro state
|  |     +--ro key-type?             ipi-bfd-types:bfd_multihop_auth_type_t
```

```
|    |    +--ro (key-option)?
|    |       +--:(key-id)
|    |       |  +--ro key-id?          uint32
|    |       |  +--ro key-encrypted?   ipi-bfd-types:oambfd_encrypt_key_t
|    |       |  +--ro key-string?      string
|    |       +--:(key-chain)
|    +--rw sessions
|       +--rw session* [local-address remote-address session-type]
|          +--rw local-address     -> ../config/local-address
|          +--rw remote-address    -> ../config/remote-address
|          +--rw session-type      -> ../config/session-type
|          +--rw config
|          |  +--rw local-address?         inet:ip-address
|          |  +--rw remote-address?        inet:ip-address
|          |  +--rw session-type?          ipi-bfd-types:bfd_session_type_t
|          |  +--rw administrative-down?   empty
|          |  +--rw non-persistent?        empty
|          +--ro state
|             +--ro local-address?         inet:ip-address
|             +--ro remote-address?        inet:ip-address
|             +--ro session-type?          ipi-bfd-types:bfd_session_type_t
|             +--ro administrative-down?   empty
|             +--ro non-persistent?        empty
+--ro sessions
   +--ro session* [local-discriminator vrf-name]
   |  +--ro local-discriminator    -> ../state/local-discriminator
   |  +--ro vrf-name               -> ../state/vrf-name
   |  +--ro state
   |  |  +--ro counters
   |  |  |  +--ro packets
   |  |  |  |  +--ro ipv4
   |  |  |  |  |  +--ro received?           yang:counter64
   |  |  |  |  |  +--ro transmitted?        yang:counter64
   |  |  |  |  |  +--ro echo-transmitted?   yang:counter64
   |  |  |  |  +--ro ipv6 {feature-list:HAVE_IPV6}?
   |  |  |  |     +--ro received?           yang:counter64
```


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```
| | | |    +--ro transmitted?        yang:counter64
| | | |    +--ro echo-transmitted?   yang:counter64
| | |  +--ro up-transitions?   yang:counter32
| |  +--ro lower-layer-type?               ipi-bfd-types:oambfd_sess_lower_layer_t
| |  +--ro uptime?                         yang:timeticks
| |  +--ro version?                        uint32
| |  +--ro local-port?                     inet:port-number
| |  +--ro remote-port?                    inet:port-number
| |  +--ro negotiated-detection-multiplier?   uint8
| |  +--ro forward-hello-timer-hits?          uint32
| |  +--ro remote-heard?                   empty
| |  +--ro fate-shared?                    empty
| |  +--ro remote-administrative-down?        empty
| |  +--ro remote-demand-mode-enabled?        empty
| |  +--ro remote-echo-enabled?               empty
| |  +--ro poll-bit?                       empty
| |  +--ro storage-type?                   ipi-bfd-types:bfd_storage_type_t
| |  +--ro downtime?                       yang:timeticks
| |  +--ro discontinuity-time?             yang:timeticks
| |  +--ro authentication-key-id?          uint32
| |  +--ro last-up-time?                   yang:timeticks
| |  +--ro hold-down-timer?                uint32
| |  +--ro hold-down-timer-hits?           uint32
| |  +--ro session-type-status?            ipi-bfd-types:oambfd_session_type_status_t
| |  +--ro remote-address?                 inet:ip-address
| |  +--ro local-address?                  inet:ip-address
| |  +--ro vrf-name?                       string
| |  +--ro interface-index?                uint32
| |  +--ro interface-name?                 string
| |  +--ro remote-discriminator?           string
| |  +--ro local-discriminator?            string
| |  +--ro session-state?                  ipi-bfd-types:oambfd_session_state_t
| |  +--ro session-type?                   ipi-bfd-types:bfd_session_type_state_t
| |  +--ro session-diagnostics?            ipi-bfd-types:oambfd_perform_diag_t
| |  +--ro negotiated-tx-interval?         uint32
| |  +--ro negotiated-rx-interval?         uint32
```

```
|  +--ro micro-bfd-sessions {feature-list:HAVE_BFD_HW_OFFLOAD}?
|  |  +--ro interface* [member-interface] {feature-list:HAVE_BFD_HW_OFFLOAD}?
|  |     +--ro member-interface    -> ../state/member-interface
|  |     +--ro state
|  |        +--ro member-interface?              -> /ipi-interface:interfaces/interface/name
|  |        +--ro remote-session-state?          ipi-bfd-types:oambfd_session_state_t
|  |        +--ro remote-session-diagnostics?    ipi-bfd-types:oambfd_perform_diag_t
|  |        +--ro interface-index?               uint32
|  |        +--ro interface-name?                string
|  |        +--ro remote-discriminator?          string
|  |        +--ro local-discriminator?           string
|  |        +--ro microbfd-local-discriminator?  string
|  |        +--ro session-state?                 ipi-bfd-types:oambfd_session_state_t
|  |        +--ro session-type?                  ipi-bfd-types:bfd_session_type_state_t
|  |        +--ro session-diagnostics?           ipi-bfd-types:oambfd_perform_diag_t
|  |        +--ro negotiated-tx-interval?        uint32
|  |        +--ro negotiated-rx-interval?        uint32
|  +--ro echo
|  |  +--ro state
|  |     +--ro local-echo-port?                  inet:port-number
|  |     +--ro echo-desired-minimum-tx-interval?   uint32
|  |     +--ro echo-required-minimum-rx-interval?  uint32
|  |     +--ro negotiated-interval?              uint32
|  +--ro mpls {feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|  |  +--ro state {feature-list:HAVE_MPLS_OAM}?
|  |  |  +--ro fec-address?           inet:ipv4-address
|  |  |  +--ro lsp-type?              ipi-bfd-types:oambfd_mpls_lsp_type_t
|  |  |  +--ro tunnel-name?           string
|  |  |  +--ro tunnel-label?          uint32
|  |  |  +--ro ftn-index?             uint32
|  |  |  +--ro lsp-ping-interval?     uint32
|  |  |  +--ro minimum-tx?            uint32
|  |  |  +--ro minimum-rx?            uint32
|  |  |  +--ro detection-multiplier?  uint8
|  |  +--ro virtual-circuit-connectivity-verification
|  |  |  +--ro state {feature-list:HAVE_VCCV}?
```


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```
| | |    +--ro vc-identifier?                  uint32
| | |    +--ro incoming-vc-label?              uint32
| | |    +--ro outgoing-vc-label?              uint32
| | |    +--ro control-channel-type?           ipi-bfd-types:oambfd_mpls_cc_type_t
| | |    +--ro connectivity-verification-type?   ipi-bfd-types:oambfd_mpls_cv_type_t
| | |    +--ro attachment-circuit-index?       uint32
| | |    +--ro tunnel-label?                   uint32
| | |    +--ro peer-address?                   inet:ipv4-address
| |  +--ro transport-profile
|  +--ro packet
|  +--ro clients
|    +--ro client* [index]
|       +--ro index    -> ../state/index
|       +--ro state
|          +--ro index?   uint32
|          +--ro flags?   ipi-bfd-types:oambfd_client_flags_t
+--ro mpls-lsp
|  +--ro summary
|  |  +--ro state
|  |    +--ro number-of-sessions?             uint32
|  |    +--ro number-of-sessions-up?          uint32
|  |    +--ro number-of-sessions-down?        uint32
|  |    +--ro number-of-sessions-admin-down?   uint32
|  +--ro egress-sessions
|  |  +--ro egress-session* [local-discriminator]
|  |    +--ro local-discriminator    -> ../state/local-discriminator
|  |    +--ro state
|  |       +--ro local-multiplier?       uint32
|  |       +--ro fec-address?            cml-data-types:cml_ipv4_addr_prefix_t
|  |       +--ro local-discriminator?    string
|  |       +--ro remote-discriminator?   string
|  |       +--ro source-port?            inet:port-number
|  |       +--ro destination-port?       inet:port-number
|  +--ro session-groups
|    +--ro session-group* [lsp-type fec-address]
|       +--ro lsp-type       -> ../state/lsp-type
```

```
|       +--ro fec-address    -> ../state/fec-address
|       +--ro state
|       |  +--ro lsp-type?      ipi-bfd-types:mpls_bfd_lsp_type_t
|       |  +--ro fec-address?   cml-data-types:cml_ipv4_addr_prefix_t
|       +--ro sessions
|          +--ro session* [lsp-type]
|             +--ro lsp-type      -> ../state/lsp-type
|             +--ro state
|             |  +--ro lsp-type?                ipi-bfd-types:mpls_bfd_all_lsp_type_t
|             |  +--ro ip-encapsulation?         empty
|             |  +--ro remote-multiplier?        uint32
|             |  +--ro fec-address?              cml-data-types:cml_ipv4_addr_prefix_t
|             |  +--ro local-discriminator?      string
|             |  +--ro remote-discriminator?     string
|             |  +--ro source-port?              inet:port-number
|             |  +--ro destination-port?         inet:port-number
|             |  +--ro session-index?            uint32
|             |  +--ro local-state?              ipi-bfd-types:mpls_bfd_session_state_t
|             |  +--ro remote-state?             ipi-bfd-types:mpls_bfd_session_state_t
|             |  +--ro local-diagnostic?         ipi-bfd-types:mpls_bfd_diag_info_t
|             |  +--ro remote-diagnostic?        ipi-bfd-types:mpls_bfd_diag_info_t
|             |  +--ro negotiated-tx-interval?   uint32
|             |  +--ro negotiated-rx-interval?   uint32
|             +--ro statistics
|                +--ro state
|                   +--ro create-time?            yang:timeticks
|                   +--ro last-down-time?         yang:timeticks
|                   +--ro last-up-time?           yang:timeticks
|                   +--ro down-count?             yang:counter32
|                   +--ro admin-down-count?       yang:counter32
|                   +--ro receive-packet-count?   yang:counter64
|                   +--ro send-packet-count?      yang:counter64
+--ro mpls-te
   +--ro summary
   |  +--ro state
   |     +--ro number-of-sessions?             uint32
```


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```
|    +--ro number-of-sessions-up?          uint32
|    +--ro number-of-sessions-down?        uint32
|    +--ro number-of-sessions-admin-down?  uint32
+--ro egress-sessions
| +--ro egress-session* [fec-address]
|    +--ro fec-address    -> ../state/fec-address
|    +--ro state
|       +--ro local-multiplier?       uint32
|       +--ro fec-address?            cml-data-types:cml_ipv4_addr_prefix_t
|       +--ro local-discriminator?    string
|       +--ro remote-discriminator?   string
|       +--ro source-port?            inet:port-number
|       +--ro destination-port?       inet:port-number
+--ro mpls-tunnels
  +--ro mpls-tunnel* [lsp-type tunnel-name]
     +--ro lsp-type       -> ../state/lsp-type
     +--ro tunnel-name    -> ../state/tunnel-name
     +--ro state
     | +--ro lsp-type?      ipi-bfd-types:mpls_bfd_te_type_t
     | +--ro tunnel-name?   string
     +--ro sessions
       +--ro session* [lsp-type]
          +--ro lsp-type      -> ../state/lsp-type
          +--ro state
          | +--ro lsp-type?                ipi-bfd-types:mpls_bfd_all_lsp_type_t
          | +--ro ip-encapsulation?        empty
          | +--ro remote-multiplier?       uint32
          | +--ro fec-address?             cml-data-types:cml_ipv4_addr_prefix_t
          | +--ro local-discriminator?     string
          | +--ro remote-discriminator?    string
          | +--ro source-port?             inet:port-number
          | +--ro destination-port?        inet:port-number
          | +--ro session-index?           uint32
          | +--ro local-state?             ipi-bfd-types:mpls_bfd_session_state_t
          | +--ro remote-state?            ipi-bfd-types:mpls_bfd_session_state_t
          | +--ro local-diagnostic?        ipi-bfd-types:mpls_bfd_diag_info_t
```

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```
|  +--ro remote-diagnostic?        ipi-bfd-types:mpls_bfd_diag_info_t
|  +--ro negotiated-tx-interval?   uint32
|  +--ro negotiated-rx-interval?   uint32
+--ro statistics
   +--ro state
      +--ro create-time?            yang:timeticks
      +--ro last-down-time?         yang:timeticks
      +--ro last-up-time?           yang:timeticks
      +--ro down-count?             yang:counter32
      +--ro admin-down-count?       yang:counter32
      +--ro receive-packet-count?   yang:counter64
      +--ro send-packet-count?      yang:counter64

rpcs:
  +---x bfd-snmp-restart {feature-list:HAVE_SNMP}?
  +---x bfd-terminal-debug-on {feature-list:HAVE_BFD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-bfd-types:bfd_debug_t
  +---x bfd-terminal-debug-off {feature-list:HAVE_BFD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-bfd-types:bfd_debug_t
  +---x debug-oam-srv6-on {feature-list:HAVE_SRV6}?
  +---x debug-oam-srv6-off {feature-list:HAVE_SRV6}?

notifications:
  +---n bfd-session-state-change
     +--ro severity?              cml-data-types:cml_notif_severity_t
     +--ro eventClass?            cml-data-types:cml_notif_class_t
     +--ro local-discriminator?   string
     +--ro vrf-name?              string
     +--ro session-state?         ipi-bfd-types:oambfd_session_state_t
     +--ro session-diagnostics?   ipi-bfd-types:oambfd_perform_diag_t
```


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ipi-bgp-vrf

```
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:
  +--rw bgp-vrf
     +--rw config
     |  +--rw import-map?   string
     |  +--rw export-map?   string
     |  +--rw rd-string?    string
     +--ro state
     |  +--ro counters
     |  |  +--ro neighbor-rx-tx-stat
     |  |  |  +--ro messages-sent?           uint32
     |  |  |  +--ro messages-received?       uint32
     |  |  |  +--ro bytes-sent?              uint32
     |  |  |  +--ro bytes-received?          uint32
     |  |  |  +--ro opens-sent?              uint32
     |  |  |  +--ro opens-received?          uint32
     |  |  |  +--ro updates-sent?            uint32
     |  |  |  +--ro updates-received?        uint32
     |  |  |  +--ro keepalive-sent?          uint32
     |  |  |  +--ro keepalive-received?      uint32
     |  |  |  +--ro notification-sent?       uint32
     |  |  |  +--ro notification-received?   uint32
     |  |  |  +--ro route-refresh-sent?      uint32
```

```
| | | +--ro route-refresh-received?   uint32
| | | +--ro capabilities-sent?        uint32
| | | +--ro capabilities-received?    uint32
| | +--ro local-input-output
| | | +--ro active-open?                  uint16
| | | +--ro passive-open?                 uint16
| | | +--ro open-loops?                   uint16
| | | +--ro open-calls?                   uint16
| | | +--ro open-received-calls?          uint16
| | | +--ro send-calls?                   uint16
| | | +--ro received-calls?               uint16
| | | +--ro write-calls?                  uint16
| | | +--ro write-loops?                  uint16
| | | +--ro write-loops-yield?            uint16
| | | +--ro read-calls?                   uint16
| | | +--ro read-loops?                   uint16
| | | +--ro read-loop-yield?              uint16
| | | +--ro process-nlri-yields?          uint16
| | | +--ro process-withdraw-yields?      uint16
| | | +--ro read-time-exceed?             uint16
| | | +--ro update-send-pending?          uint16
| | | +--ro update-buffer-not-available?  uint16
| | | +--ro update-walk-suspend?          uint16
| | | +--ro yield-in-update?              uint16
| | | +--ro yield-in-pack?                uint16
| | | +--ro no-send-buffer-peer?          uint16
| | | +--ro no-withdraw-buffer-peer?      uint16
| | | +--ro yields-in-update-peer-loop?   uint16
| | | +--ro no-updates-pending-or-no-buffers?   uint16
| | | +--ro no-data-to-write?             uint16
| | | +--ro message-queue-received-error?       uint16
| | +--ro sockets
| |   +--ro created?          uint32
| |   +--ro accepted?         uint32
| |   +--ro closed?           uint32
| |   +--ro create-retries?   uint32
```


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```
| |     +--ro create-failures?    uint32
| |     +--ro fd-close-session?   uint32
|  +--ro import-map?   string
|  +--ro export-map?   string
|  +--ro rd-string?    string
+--ro next-hop-tracking
|  +--ro state
|     +--ro bgp-as?                  uint32
|     +--ro router-id?               inet:ipv4-address
|     +--ro configured?              boolean
|     +--ro delay-time?              uint32
|     +--ro received-message-count?   cml-data-types:cml_line_t
|     +--ro ipv4-count?              int32
|     +--ro ipv6-count?              int32
|     +--ro delay-time-remaining?     int32
+--rw route-targets
|  +--rw route-target* [rt-rd-string]
|     +--rw rt-rd-string    -> ../config/rt-rd-string
|     +--rw config
|     |  +--rw rt-rd-string?   ipi-bgp-types:bgp_route_target_type_t
|     |  +--rw direction       ipi-bgp-types:bgp_target_route_type_t
|     +--ro state
|        +--ro rt-rd-string?   ipi-bgp-types:bgp_route_target_type_t
|        +--ro direction       ipi-bgp-types:bgp_target_route_type_t
+--ro bgp-rd
   +--ro bgp-rd-as
   |  +--ro state
   |     +--ro brd-as?          uint16
   |     +--ro brd-as-number?   uint32
   +--ro bgp-rd-as4
   |  +--ro state
   |     +--ro brd-as4?       uint32
   |     +--ro brd-as-num4?   uint16
   +--ro bgp-rd-ip
      +--ro state
         +--ro brd-ip?          inet:ipv4-address
```

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```
            +--ro brd-ip-number?   int32
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:
  +--rw evpn-service-type {feature-list:HAVE_MPLS,feature-list:HAVE_BGP_EVPN}?
     +--rw config
     |  +--rw service-type?   cml-data-types:cml_evpn_service_type_t
     +--ro state
        +--ro service-type?   cml-data-types:cml_evpn_service_type_t
```

ipi-bgp

```
+--rw bgp
   +--rw global
   |  +--rw config
   |  |  +--rw enable-aggregate-nexthop?         empty
   |  |  +--rw enable-path-select?               empty
   |  |  +--rw disable-rfc7606-error-handling?   empty
   |  |  +--rw enable-bogon-filtering?           empty
   |  |  +--rw enable-extended-asn-capability?   empty {feature-list:HAVE_EXT_CAP_ASN}?
   |  |  +--rw enable-nexthop-tracking?          empty
   |  |  +--rw nexthop-tracking-delay?           uint8
   |  |  +--rw enable-rfc-1771-strict-origin?    empty
   |  +--ro state
   |  |  +--ro enable-aggregate-nexthop?         empty
   |  |  +--ro enable-path-select?               empty
   |  |  +--ro disable-rfc7606-error-handling?   empty
   |  |  +--ro enable-bogon-filtering?           empty
   |  |  +--ro enable-extended-asn-capability?   empty {feature-list:HAVE_EXT_CAP_ASN}?
   |  |  +--ro enable-nexthop-tracking?          empty
   |  |  +--ro nexthop-tracking-delay?           uint8
   |  |  +--ro enable-rfc-1771-strict-origin?    empty
   |  +--rw community-lists
   |  |  +--rw numbered-lists
   |  |  |  +--rw numbered-list* [standard-number]
   |  |  |     +--rw standard-number       -> ../config/standard-number
   |  |  |     +--rw config
   |  |  |     |  +--rw standard-number?   uint32
```


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```
| | |    +--ro state
| | |    |  +--ro standard-number?   uint32
| | |    +--rw action-for-any
| | |    |  +--rw config!
| | |    |  |  +--rw action-name    ipi-bgp-types:bgp_community_list_action_t
| | |    |  +--ro state
| | |    |     +--ro action-name    ipi-bgp-types:bgp_community_list_action_t
| | |    +--rw action-list-values
| | |       +--rw action-list-value* [action-standard-number standard-number-value]
| | |          +--rw action-standard-number    -> ../config/action-standard-number
| | |          +--rw standard-number-value     -> ../config/standard-number-value
| | |          +--rw config
| | |          |  +--rw action-standard-number?   ipi-bgp-types:bgp_community_list_action_t
| | |          |  +--rw standard-number-value?    string
| | |          +--ro state
| | |             +--ro action-standard-number?   ipi-bgp-types:bgp_community_list_action_t
| | |             +--ro standard-number-value?    string
| |  +--rw standards
| | |  +--rw standard* [list-type name]
| | |    +--rw list-type         -> ../config/list-type
| | |    +--rw name              -> ../config/name
| | |    +--rw config
| | |    |  +--rw list-type?   ipi-bgp-types:bgp_community_list_type_t
| | |    |  +--rw name?        string
| | |    +--ro state
| | |    |  +--ro list-type?   ipi-bgp-types:bgp_community_list_type_t
| | |    |  +--ro name?        string
| | |    +--rw action-for-any
| | |    |  +--rw config!
| | |    |  |  +--rw action-name    ipi-bgp-types:bgp_community_list_action_t
| | |    |  +--ro state
| | |    |     +--ro action-name    ipi-bgp-types:bgp_community_list_action_t
| | |    +--rw action-values
| | |       +--rw action-value* [action-name-standard community-value-standard]
| | |          +--rw action-name-standard        -> ../config/action-name-standard
| | |          +--rw community-value-standard    -> ../config/community-value-standard
```

```
| | |          +--rw config
| | |          | +--rw action-name-standard?       ipi-bgp-types:bgp_community_list_action_t
| | |          | +--rw community-value-standard?   string
| | |          +--ro state
| | |            +--ro action-name-standard?       ipi-bgp-types:bgp_community_list_action_t
| | |            +--ro community-value-standard?   string
| | +--rw expanded-lists
| | | +--rw expanded-list* [list-type expanded-type]
| | |    +--rw list-type        -> ../config/list-type
| | |    +--rw expanded-type    -> ../config/expanded-type
| | |    +--rw config
| | |    | +--rw list-type?       ipi-bgp-types:bgp_expanded_list_t
| | |    | +--rw expanded-type?   ipi-bgp-types:bgp_expanded_list_type_t
| | |    +--ro state
| | |    | +--ro list-type?       ipi-bgp-types:bgp_expanded_list_t
| | |    | +--ro expanded-type?   ipi-bgp-types:bgp_expanded_list_type_t
| | |    +--rw action-values
| | |       +--rw action-value* [action-expanded regular-expression-list]
| | |          +--rw action-expanded            -> ../config/action-expanded
| | |          +--rw regular-expression-list    -> ../config/regular-expression-list
| | |          +--rw config
| | |          | +--rw action-expanded?          ipi-bgp-types:bgp_community_list_action_t
| | |          | +--rw regular-expression-list?   cml-data-types:cml_line_t
| | |          +--ro state
| | |            +--ro action-expanded?          ipi-bgp-types:bgp_community_list_action_t
| | |            +--ro regular-expression-list?   cml-data-types:cml_line_t
| | +--rw extended-community
| | | +--rw numbered-lists
| | | | +--rw numbered-list* [standard-number]
| | | |    +--rw standard-number    -> ../config/standard-number
| | | |    +--rw config
| | | |    | +--rw standard-number?   uint32
| | | |    +--ro state
| | | |    | +--ro standard-number?   uint32
| | | |    +--rw action-values
| | | |       +--rw action-value* [extended-action-number extended-route-target-soo extended-value]
```


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```
| | | |         +--rw extended-action-number       -> ../config/extended-action-number
| | | |         +--rw extended-route-target-soo    -> ../config/extended-route-target-soo
| | | |         +--rw extended-value               -> ../config/extended-value
| | | |         +--rw config
| | | |         |  +--rw extended-action-number?      ipi-bgp-types:bgp_community_list_action_t
| | | |         |  +--rw extended-route-target-soo?   ipi-bgp-types:bgp_route_target_t
| | | |         |  +--rw extended-value?              string
| | | |         +--ro state
| | | |            +--ro extended-action-number?      ipi-bgp-types:bgp_community_list_action_t
| | | |            +--ro extended-route-target-soo?   ipi-bgp-types:bgp_route_target_t
| | | |            +--ro extended-value?              string
| | |  +--rw standards
| | | |  +--rw standard* [name]
| | | |     +--rw name             -> ../config/name
| | | |     +--rw config
| | | |     |  +--rw name?   string
| | | |     +--ro state
| | | |     |  +--ro name?   string
| | | |     +--rw action-values
| | | |        +--rw action-value* [extended-action route-target-soo value]
| | | |           +--rw extended-action     -> ../config/extended-action
| | | |           +--rw route-target-soo    -> ../config/route-target-soo
| | | |           +--rw value               -> ../config/value
| | | |           +--rw config
| | | |           |  +--rw extended-action?    ipi-bgp-types:bgp_community_list_action_t
| | | |           |  +--rw route-target-soo?   ipi-bgp-types:bgp_route_target_t
| | | |           |  +--rw value?              string
| | | |           +--ro state
| | | |              +--ro extended-action?    ipi-bgp-types:bgp_community_list_action_t
| | | |              +--ro route-target-soo?   ipi-bgp-types:bgp_route_target_t
| | | |              +--ro value?              string
| | |  +--rw expanded-lists
| | |    +--rw expanded-list* [list-type expanded-type]
| | |       +--rw list-type        -> ../config/list-type
| | |       +--rw expanded-type    -> ../config/expanded-type
| | |       +--rw config
```

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```
| | |       | +--rw list-type?       ipi-bgp-types:bgp_ext_expanded_list_t
| | |       | +--rw expanded-type?   ipi-bgp-types:bgp_expanded_list_type_t
| | |       +--ro state
| | |       | +--ro list-type?       ipi-bgp-types:bgp_ext_expanded_list_t
| | |       | +--ro expanded-type?   ipi-bgp-types:bgp_expanded_list_type_t
| | |       +--rw action-values
| | |         +--rw action-value* [action value]
| | |           +--rw action    -> ../config/action
| | |           +--rw value     -> ../config/value
| | |           +--rw config
| | |           | +--rw action?   ipi-bgp-types:bgp_community_list_action_t
| | |           | +--rw value?    cml-data-types:cml_line_t
| | |           +--ro state
| | |             +--ro action?   ipi-bgp-types:bgp_community_list_action_t
| | |             +--ro value?    cml-data-types:cml_line_t
| | +--rw large-community
| |   +--rw numbered-lists
| |   | +--rw numbered-list* [standard-number]
| |   |   +--rw standard-number    -> ../config/standard-number
| |   |   +--rw config
| |   |   | +--rw standard-number?   uint32
| |   |   +--ro state
| |   |   | +--ro standard-number?   uint32
| |   |   +--rw action-values
| |   |     +--rw action-value* [large-action-number large-value]
| |   |       +--rw large-action-number    -> ../config/large-action-number
| |   |       +--rw large-value            -> ../config/large-value
| |   |       +--rw config
| |   |       | +--rw large-action-number?   ipi-bgp-types:bgp_community_list_action_t
| |   |       | +--rw large-value?           cml-data-types:cml_line_t
| |   |       +--ro state
| |   |         +--ro large-action-number?   ipi-bgp-types:bgp_community_list_action_t
| |   |         +--ro large-value?           cml-data-types:cml_line_t
| |   +--rw standard-lists
| |   | +--rw standard-list* [list-type standard-type]
| |   |   +--rw list-type        -> ../config/list-type
```


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```
| |    |    +--rw standard-type    -> ../config/standard-type
| |    |    +--rw config
| |    |    | +--rw list-type?       ipi-bgp-types:bgp_standard_list_t
| |    |    | +--rw standard-type?   ipi-bgp-types:bgp_standard_list_type_t
| |    |    +--ro state
| |    |    | +--ro list-type?       ipi-bgp-types:bgp_standard_list_t
| |    |    | +--ro standard-type?   ipi-bgp-types:bgp_standard_list_type_t
| |    |    +--rw action-values
| |    |      +--rw action-value* [action value]
| |    |        +--rw action    -> ../config/action
| |    |        +--rw value     -> ../config/value
| |    |        +--rw config
| |    |        | +--rw action?   ipi-bgp-types:bgp_community_list_action_t
| |    |        | +--rw value?    cml-data-types:cml_line_t
| |    |        +--ro state
| |    |          +--ro action?   ipi-bgp-types:bgp_community_list_action_t
| |    |          +--ro value?    cml-data-types:cml_line_t
| |    +--rw expanded-lists
| |      +--rw expanded-list* [list-type expanded-type]
| |        +--rw list-type       -> ../config/list-type
| |        +--rw expanded-type    -> ../config/expanded-type
| |        +--rw config
| |        | +--rw list-type?       ipi-bgp-types:bgp_large_expanded_list_t
| |        | +--rw expanded-type?   ipi-bgp-types:bgp_expanded_list_type_t
| |        +--ro state
| |        | +--ro list-type?       ipi-bgp-types:bgp_large_expanded_list_t
| |        | +--ro expanded-type?   ipi-bgp-types:bgp_expanded_list_type_t
| |        +--rw action-values
| |          +--rw action-value* [action value]
| |            +--rw action    -> ../config/action
| |            +--rw value     -> ../config/value
| |            +--rw config
| |            | +--rw action?   ipi-bgp-types:bgp_community_list_action_t
| |            | +--rw value?    cml-data-types:cml_line_t
| |            +--ro state
| |              +--ro action?   ipi-bgp-types:bgp_community_list_action_t
```

```
| |                +--ro value?    cml-data-types:cml_line_t
| +--rw as-path-access-lists
| | +--rw as-path-access-list* [access-list-name access-list-action access-list-regular-expression]
| |    +--rw access-list-name                 -> ../config/access-list-name
| |    +--rw access-list-action               -> ../config/access-list-action
| |    +--rw access-list-regular-expression    -> ../config/access-list-regular-expression
| |    +--rw config
| |    | +--rw access-list-name?                string
| |    | +--rw access-list-action?              ipi-bgp-types:bgp_community_list_action_t
| |    | +--rw access-list-regular-expression?   cml-data-types:cml_line_t
| |    +--ro state
| |       +--ro access-list-name?                string
| |       +--ro access-list-action?              ipi-bgp-types:bgp_community_list_action_t
| |       +--ro access-list-regular-expression?   cml-data-types:cml_line_t
| +--rw mpls-l3vpn-label-modes
| | +--rw mpls-l3vpn-label-mode* [address-family-name vrf-name] {feature-list:HAVE_MPLS}?
| |    +--rw address-family-name    -> ../config/address-family-name
| |    +--rw vrf-name               -> ../config/vrf-name
| |    +--rw config
| |    | +--rw address-family-name?   ipi-bgp-types:bgp_af_config_t
| |    | +--rw vrf-name?              ipi-bgp-types:bgp_vrf_type_t {feature-list:HAVE_MPLS}?
| |    | +--rw label-alloc-type       ipi-bgp-types:bgp_l3vpn_label_alloc_mode_t
| |    +--ro state
| |       +--ro address-family-name?   ipi-bgp-types:bgp_af_config_t
| |       +--ro vrf-name?              ipi-bgp-types:bgp_vrf_type_t {feature-list:HAVE_MPLS}?
| |       +--ro label-alloc-type       ipi-bgp-types:bgp_l3vpn_label_alloc_mode_t
| +--rw mpls-6pe {feature-list:HAVE_MPLS,feature-list:HAVE_6PE}?
| | +--rw config
| | | +--rw enable-per-prefix-label-mode?   empty
| | +--ro state
| |    +--ro enable-per-prefix-label-mode?   empty
| +--rw debug
|    +--rw config
|    | +--rw options?   ipi-bgp-types:bgp_debug_t
|    +--ro state
|       +--ro terminal-debug-status
```


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```
|       | +--ro terminal-debug-status?   ipi-bgp-types:bgp_debug_t
|       +--ro options?                   ipi-bgp-types:bgp_debug_t
+--rw bgp-instances
| +--rw bgp-instance* [bgp-as]
|    +--rw bgp-as                        -> ../config/bgp-as
|    +--rw config
|    | +--rw bgp-as?                          uint32
|    | +--rw router-id?                       inet:ipv4-address
|    | +--rw cluster-id?                      ipi-bgp-types:bgp_cluster_id_t
|    | +--rw local-preference?                uint32
|    | +--rw graceful-shutdown-capable?       empty
|    | +--rw graceful-shutdown?               empty
|    | +--rw graceful-shutdown-local-preference?   uint32
|    | +--rw inbound-route-filter-disable?    empty {feature-list:HAVE_VRF}?
|    | +--rw external-route-leak-disable?     empty {feature-list:HAVE_VRF}?
|    | +--rw log-neighbor-changes?            empty
|    | +--rw scan-interval?                   uint32
|    | +--rw best-path-dont-compare-originator?    empty
|    | +--rw no-best-path-tie-break?          empty
|    | +--rw enable-deterministic-med?        empty
|    | +--rw enforce-first-as-for-ebgp?       empty
|    | +--rw no-external-fail-over?           empty
|    | +--rw local-as-count?                  uint8
|    | +--rw no-client-route-reflection?      empty
|    | +--rw med-type?                        ipi-bgp-types:bgp_med_type_t
|    | +--rw multi-path-relax?                empty
|    | +--rw enable-mpls-nexthop-tracking?    empty {feature-list:HAVE_MPLS_LSP_TRACKING}?
|    | +--rw ignore-aigp-for-bestpath?        empty {feature-list:HAVE_BGP_AIGP}?
|    | +--rw auto-policy-soft-reset?          empty
|    +--rw confederation
|    | +--rw config
|    | | +--rw identifier?       uint32
|    | | +--rw peer-as-number*   uint32
|    | +--ro state
|    |    +--ro identifier?       uint32
|    |    +--ro peer-as-number*   uint32
```

```
|    +--rw confederation-vrfs
|    |  +--rw confederation-vrf* [confed-vrf-name]
|    |     +--rw confed-vrf-name    -> ../config/confed-vrf-name
|    |     +--rw config
|    |     |  +--rw identifier?        uint32
|    |     |  +--rw peer-as-number*    uint32
|    |     |  +--rw confed-vrf-name?   string
|    |     +--ro state
|    |        +--ro identifier?        uint32
|    |        +--ro peer-as-number*    uint32
|    |        +--ro confed-vrf-name?   string
|    +--rw view-lists
|    |  +--rw view-list* [view-name]
|    |     +--rw view-name    -> ../config/view-name
|    |     +--rw config
|    |     |  +--rw view-name?   string
|    |     +--ro state
|    |        +--ro view-name?   string
|    +--ro state
|    |  +--ro version?                          ipi-bgp-types:bgp_version_t
|    |  +--ro table-version?                    int32
|    |  +--ro total-prefixes?                   int32
|    |  +--ro router-run-time-ip-address?       inet:ipv4-address
|    |  +--ro scan-remain-time?                 uint32
|    |  +--ro bgp-as?                           uint32
|    |  +--ro router-id?                        inet:ipv4-address
|    |  +--ro cluster-id?                       ipi-bgp-types:bgp_cluster_id_t
|    |  +--ro local-preference?                 uint32
|    |  +--ro graceful-shutdown-capable?        empty
|    |  +--ro graceful-shutdown?                empty
|    |  +--ro graceful-shutdown-local-preference?   uint32
|    |  +--ro inbound-route-filter-disable?     empty {feature-list:HAVE_VRF}?
|    |  +--ro external-route-leak-disable?      empty {feature-list:HAVE_VRF}?
|    |  +--ro log-neighbor-changes?             empty
|    |  +--ro scan-interval?                    uint32
|    |  +--ro best-path-dont-compare-originator?    empty
```


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```
|   | +--ro no-best-path-tie-break?              empty
|   | +--ro enable-deterministic-med?            empty
|   | +--ro enforce-first-as-for-ebgp?           empty
|   | +--ro no-external-fail-over?               empty
|   | +--ro local-as-count?                      uint8
|   | +--ro no-client-route-reflection?          empty
|   | +--ro med-type?                            ipi-bgp-types:bgp_med_type_t
|   | +--ro multi-path-relax?                    empty
|   | +--ro enable-mpls-nexthop-tracking?        empty {feature-list:HAVE_MPLS_LSP_TRACKING}?
|   | +--ro ignore-aigp-for-bestpath?            empty {feature-list:HAVE_BGP_AIGP}?
|   | +--ro auto-policy-soft-reset?              empty
|   +--rw graceful-restart
|   | +--rw config
|   | | +--rw enable-graceful-restart?           empty {feature-list:HAVE_RESTART}?
|   | | +--rw restart-time?                      uint32 {feature-list:HAVE_RESTART}?
|   | | +--rw stale-path-max-retention-time?     uint32 {feature-list:HAVE_RESTART}?
|   | | +--rw route-selection-max-defer-time?    uint32 {feature-list:HAVE_RESTART}?
|   | | +--rw graceful-reset?                    empty
|   | +--ro state
|   |   +--ro enable-graceful-restart?           empty {feature-list:HAVE_RESTART}?
|   |   +--ro restart-time?                      uint32 {feature-list:HAVE_RESTART}?
|   |   +--ro stale-path-max-retention-time?     uint32 {feature-list:HAVE_RESTART}?
|   |   +--ro route-selection-max-defer-time?    uint32 {feature-list:HAVE_RESTART}?
|   |   +--ro graceful-reset?                    empty
|   +--rw timers
|   | +--rw config!
|   | | +--rw keep-alive    uint16
|   | | +--rw hold-time     uint16
|   | +--ro state
|   |   +--ro keep-alive    uint16
|   |   +--ro hold-time     uint16
|   +--rw route-selection
|   | +--rw config
|   | | +--rw always-compare-med?          empty
|   | | +--rw ignore-as-path-length?       empty
|   | | +--rw best-path-compare-confed?    empty
```

```
|    | |  +--rw external-compare-router-id?   empty
|    |  +--ro state
|    |     +--ro always-compare-med?          empty
|    |     +--ro ignore-as-path-length?       empty
|    |     +--ro best-path-compare-confed?    empty
|    |     +--ro external-compare-router-id?  empty
|    +--rw administrative-distances
|    |  +--rw administrative-distance* [source-ip-prefix]
|    |     +--rw source-ip-prefix    -> ../config/source-ip-prefix
|    |     +--rw config
|    |     |  +--rw source-ip-prefix?   cml-data-types:cml_ipv4_prefix_t
|    |     |  +--rw distance            uint8
|    |     |  +--rw access-list-name?   string
|    |     +--ro state
|    |        +--ro source-ip-prefix?   cml-data-types:cml_ipv4_prefix_t
|    |        +--ro distance            uint8
|    |        +--ro access-list-name?   string
|    +--ro rib
|    |  +--ro address-family* [afi safi]
|    |     +--ro afi              -> ../state/afi
|    |     +--ro safi             -> ../state/safi
|    |     +--ro state
|    |     |  +--ro afi?    ipi-bgp-types:bgp_afi_type_t
|    |     |  +--ro safi?   ipi-bgp-types:bgp_safi_type_t
|    |     +--ro routes
|    |     |  +--ro route* [network-address route-distinguisher]
|    |     |     +--ro network-address        -> ../state/network-address
|    |     |     +--ro route-distinguisher    -> ../state/route-distinguisher
|    |     |     +--ro next-hop* [next-hop-address]
|    |     |     |  +--ro next-hop-address    -> ../state/next-hop-address
|    |     |     |  +--ro state
|    |     |     |     +--ro next-hop-address?              ipi-bgp-types:bgp_hostname_t
|    |     |     |     +--ro peer-network-weight?           uint32
|    |     |     |     +--ro flap-time-reuse-list?          string
|    |     |     |     +--ro flap-record-duration?          string
|    |     |     |     +--ro damp-time-to-reuse?            string
```


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```
|   |   |   +--ro bgp-med-value?                  uint32
|   |   |   +--ro bgp-as-path-string*             cml-data-types:cml_line_t
|   |   |   +--ro bgp-as-path-4-byte-string*      string
|   |   |   +--ro bgp-as-path-4-byte-origin?      ipi-bgp-types:bgp_origin_t
|   |   |   +--ro ibgp-metric-route?              int32
|   |   |   +--ro aggregate-as-route?             int32
|   |   |   +--ro aggregator-address-route?       ipi-bgp-types:bgp_hostname_t
|   |   |   +--ro network-remote-address-route?   ipi-bgp-types:bgp_hostname_t
|   |   |   +--ro originator-id-route?            ipi-bgp-types:bgp_hostname_t
|   |   |   +--ro route-peer-address?             ipi-bgp-types:bgp_hostname_t
|   |   |   +--ro route-local-preference?         uint32
|   |   |   +--ro route-prefix-label?             uint32
|   |   |   +--ro route-community-string?         cml-data-types:cml_line_t
|   |   |   +--ro cluster-list-route*             ipi-bgp-types:bgp_hostname_t
|   |   |   +--ro route-penalty?                  int32
|   |   |   +--ro route-flap-count?               int32
|   |   |   +--ro last-update-route?              yang:date-and-time
|   |   |   +--ro reflector-client-route?         boolean
|   |   |   +--ro route-dampening-active?         boolean
|   |   |   +--ro history-route?                  boolean
|   |   |   +--ro nexthop-valid-route?            boolean
|   |   |   +--ro med-flag-type-route?            boolean
|   |   |   +--ro valid-route?                    boolean
|   |   |   +--ro stale-route?                    boolean
|   |   |   +--ro route-type?                     ipi-bgp-types:bgp_ri_type_t
|   |   |   +--ro ecmp-multi-candidate-route?     boolean
|   |   |   +--ro multi-installed-route?          boolean
|   |   |   +--ro route-synchronized-flag-route?  boolean
|   |   |   +--ro atomic-aggregate-route?         boolean
|   |   |   +--ro selected-route?                 boolean
|   |   |   +--ro bgp-tx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   +--ro bgp-rx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   +--ro ipv4-multicast-capability?      string
|   |   |   +--ro vpnv4-unicast-capability?       string
|   |   |   +--ro rtfilter-unicast-capability?    string
|   |   |   +--ro l2vpn-evpn-capability?          string
```

```
    |    |    |    +--ro ipv6-unicast-capability?         string
    |    |    |    +--ro ipv6-multicast-capability?       string
    |    |    |    +--ro ipv6-label-unicast-capability?   string
    |    |    |    +--ro in-label?                        uint32 {feature-list:HAVE_BGP_LU}?
    |    |    |    +--ro out-label?                       uint32 {feature-list:HAVE_BGP_LU}?
    |    |    |    +--ro as-origin-validation-state?      ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
    |    |    |    +--ro vrf-name?                        string {feature-list:HAVE_MPLS}?
    |    |    |    +--ro route-distinguisher?             string {feature-list:HAVE_MPLS}?
    |    |    |    +--ro state
    |    |    |       +--ro network-address?       ipi-bgp-types:bgp_ip_network_t
    |    |    |       +--ro route-distinguisher?   string
    |    |    +--ro evpn-routes
    |    |    |  +--ro evpn-route* [route-distinguisher]
    |    |    |    +--ro route-distinguisher             -> ../state/route-distinguisher
    |    |    |    +--ro state
    |    |    |    |  +--ro route-distinguisher?   string
    |    |    |    |  +--ro vrf-name?              string
    |    |    |    +--ro mac-ip-route* [host-mac-address host-ip-address ethernet-tag-identifier next-hop-address]
    |    |    |    |  +--ro host-mac-address          -> ../state/host-mac-address
    |    |    |    |  +--ro host-ip-address           -> ../state/host-ip-address
    |    |    |    |  +--ro ethernet-tag-identifier   -> ../state/ethernet-tag-identifier
    |    |    |    |  +--ro next-hop-address          -> ../state/next-hop-address
    |    |    |    |  +--ro state
    |    |    |    |     +--ro host-mac-address?            cml-data-types:cml_mac_addr_t
    |    |    |    |     +--ro host-ip-address?             inet:ip-address
    |    |    |    |     +--ro ethernet-tag-identifier?     uint32
    |    |    |    |     +--ro next-hop-address?            inet:ipv4-address
    |    |    |    |     +--ro encapsulation-type?          string
    |    |    |    |     +--ro ethernet-segment-identifier?   string
    |    |    |    |     +--ro l2-label?                    uint32
    |    |    |    |     +--ro l3-label?                    uint32
    |    |    |    +--ro inclusive-multicast-route* [ethernet-tag-identifier originating-router-ip-address]
    |    |    |    |  +--ro ethernet-tag-identifier         -> ../state/ethernet-tag-identifier
    |    |    |    |  +--ro originating-router-ip-address   -> ../state/originating-router-ip-address
    |    |    |    |  +--ro state
    |    |    |    |     +--ro ethernet-tag-identifier?       uint32
```


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```
|    |    |    |    +--ro originating-router-ip-address?   inet:ipv4-address
|    |    |    |    +--ro next-hop-address?               inet:ipv4-address
|    |    |    |    +--ro encapsulation-type?             string
|    |    |    +--ro ethernet-segment-route* [ethernet-segment-identifier originating-router-ip-address]
|    |    |    | +--ro ethernet-segment-identifier      -> ../state/ethernet-segment-identifier
|    |    |    | +--ro originating-router-ip-address    -> ../state/originating-router-ip-address
|    |    |    | +--ro state
|    |    |    |    +--ro ethernet-segment-identifier?     string
|    |    |    |    +--ro originating-router-ip-address?   inet:ipv4-address
|    |    |    |    +--ro next-hop-address?               inet:ipv4-address
|    |    |    |    +--ro encapsulation-type?             string
|    |    |    +--ro ethernet-auto-discovery-route* [ethernet-segment-identifier ethernet-tag-identifier next-hop-address]
|    |    |    | +--ro ethernet-segment-identifier    -> ../state/ethernet-segment-identifier
|    |    |    | +--ro ethernet-tag-identifier        -> ../state/ethernet-tag-identifier
|    |    |    | +--ro next-hop-address               -> ../state/next-hop-address
|    |    |    | +--ro state
|    |    |    |    +--ro ethernet-segment-identifier?   string
|    |    |    |    +--ro ethernet-tag-identifier?       uint32
|    |    |    |    +--ro next-hop-address?              inet:ipv4-address
|    |    |    |    +--ro encapsulation-type?            string
|    |    |    |    +--ro label?                         uint32
|    |    |    +--ro ip-prefix-route* [ethernet-segment-identifier ethernet-tag-identifier originating-router-ip-address]
|    |    |      +--ro ethernet-segment-identifier      -> ../state/ethernet-segment-identifier
|    |    |      +--ro ethernet-tag-identifier          -> ../state/ethernet-tag-identifier
|    |    |      +--ro originating-router-ip-address    -> ../state/originating-router-ip-address
|    |    |      +--ro state
|    |    |         +--ro ethernet-segment-identifier?     string
|    |    |         +--ro ethernet-tag-identifier?         uint32
|    |    |         +--ro originating-router-ip-address?   inet:ipv4-address
|    |    |         +--ro next-hop-address?                inet:ipv4-address
|    |    |         +--ro encapsulation-type?              string
|    |    |         +--ro l3-label?                        uint32
|    |    +--ro link-state {feature-list:HAVE_BGP_LS}?
|    |    | +--ro node-nlris
|    |    | | +--ro node-nlri* [nlri-key]
|    |    | |    +--ro nlri-key    -> ../state/nlri-key
```

```
|    |    | |    +--ro state
|    |    | |       +--ro nlri-key?                string
|    |    | |       +--ro nlri-origin?             string
|    |    | |       +--ro protocol?                cml-data-types:cml_line_t
|    |    | |       +--ro nlri-identifier?         string
|    |    | |       +--ro nlri-bgp-as?             uint32
|    |    | |       +--ro bgp-router-id?           inet:ipv4-address
|    |    | |       +--ro local-bgp-router-id?     inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
|    |    | |       +--ro local-bgp-as?            uint32 {feature-list:HAVE_BGP_EPE}?
|    |    | |       +--ro ospf-area-id?            inet:ipv4-address
|    |    | |       +--ro ospf-router-id?          inet:ipv4-address
|    |    | |       +--ro isis-lsp-identifier?     string
|    |    | |       +--ro designated-router-id?    inet:ipv4-address
|    |    | |       +--ro range-size?              uint32
|    |    | |       +--ro base-segment-identifier?   uint32
|    |    | +--ro link-nlris
|    |    | |  +--ro link-nlri* [nlri-key]
|    |    | |     +--ro nlri-key    -> ../state/nlri-key
|    |    | |     +--ro state
|    |    | |        +--ro nlri-key?                    string
|    |    | |        +--ro nlri-origin?                 string
|    |    | |        +--ro protocol?                    cml-data-types:cml_line_t
|    |    | |        +--ro nlri-identifier?             string
|    |    | |        +--ro nlri-bgp-as?                 uint32
|    |    | |        +--ro bgp-router-id?               inet:ipv4-address
|    |    | |        +--ro local-bgp-router-id?         inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
|    |    | |        +--ro local-bgp-as?                uint32 {feature-list:HAVE_BGP_EPE}?
|    |    | |        +--ro ospf-area-id?                inet:ipv4-address
|    |    | |        +--ro ospf-router-id?              inet:ipv4-address
|    |    | |        +--ro isis-lsp-identifier?         string
|    |    | |        +--ro designated-router-id?        inet:ipv4-address
|    |    | |        +--ro ospf-remote-area-id?         inet:ipv4-address
|    |    | |        +--ro ospf-remote-router-id?       inet:ipv4-address
|    |    | |        +--ro remote-designated-router-id?   inet:ipv4-address
|    |    | |        +--ro remote-isis-lsp-id?          string
|    |    | |        +--ro remote-bgp-as?               uint32 {feature-list:HAVE_BGP_EPE}?
```


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```
|    |    | |       +--ro remote-bgp-router-id?              inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
|    |    | |       +--ro local-interface-ip?               inet:ipv4-address
|    |    | |       +--ro remote-interface-ip?              inet:ipv4-address
|    |    | |       +--ro igp-metric-id?                    uint8
|    |    | |       +--ro te-metric-id?                     uint8
|    |    | |       +--ro adjacent-segment-identifier?      uint32
|    |    | |       +--ro peer-node-segment-identifier?     uint32 {feature-list:HAVE_BGP_EPE}?
|    |    | |       +--ro peer-set-segment-identifier?      uint32 {feature-list:HAVE_BGP_EPE}?
|    |    | |       +--ro peer-adjacency-segment-identifier?   uint32 {feature-list:HAVE_BGP_EPE}?
|    |    | +--ro prefix-nlris
|    |    |    +--ro prefix-nlri* [nlri-key]
|    |    |       +--ro nlri-key    -> ../state/nlri-key
|    |    |       +--ro state
|    |    |          +--ro nlri-key?                 string
|    |    |          +--ro nlri-origin?              string
|    |    |          +--ro protocol?                 cml-data-types:cml_line_t
|    |    |          +--ro nlri-identifier?          string
|    |    |          +--ro nlri-bgp-as?              uint32
|    |    |          +--ro bgp-router-id?            inet:ipv4-address
|    |    |          +--ro local-bgp-router-id?      inet:ipv4-address {feature-list:HAVE_BGP_EPE}?
|    |    |          +--ro local-bgp-as?             uint32 {feature-list:HAVE_BGP_EPE}?
|    |    |          +--ro ospf-area-id?             inet:ipv4-address
|    |    |          +--ro ospf-router-id?           inet:ipv4-address
|    |    |          +--ro isis-lsp-identifier?      string
|    |    |          +--ro ospf-route-type?          cml-data-types:cml_line_t
|    |    |          +--ro prefix?                   inet:ipv4-address
|    |    |          +--ro prefix-length?            uint32
|    |    |          +--ro prefix-metric?            uint32
|    |    |          +--ro N-absolute-bit-flag?      boolean
|    |    |          +--ro prefix-segment-identifier?   uint32
|    |    +--ro flowspec-info {feature-list:HAVE_BGP_FLOWSPEC}?
|    |       +--ro vrfs
|    |          +--ro vrf* [vrf-name]
|    |             +--ro vrf-name    -> ../state/vrf-name
|    |             +--ro state
|    |             |  +--ro vrf-name?   string
```

```
|  |        +--ro flows
|  |          +--ro flow* [flow-key]
|  |            +--ro flow-key    -> ../state/flow-key
|  |            +--ro state
|  |            |  +--ro flow-key?   string
|  |            +--ro matches
|  |            |  +--ro ip-addresses
|  |            |  |  +--ro state
|  |            |  |     +--ro destination-address?   ipi-bgp-types:bgp_ip_addr_t
|  |            |  |     +--ro source-address?        ipi-bgp-types:bgp_ip_addr_t
|  |            |  +--ro state
|  |            |     +--ro ip-protocol-operator-value*                string
|  |            |     +--ro tcp-udp-port-operator-value*               string
|  |            |     +--ro tcp-udp-destination-port-operator-value*   string
|  |            |     +--ro tcp-udp-source-port-operator-value*        string
|  |            |     +--ro packet-length-operator-value*              string
|  |            |     +--ro tcp-flags-operator-value*                  string
|  |            |     +--ro icmp-type-operator-value*                  string
|  |            |     +--ro icmp-code-operator-value*                  string
|  |            |     +--ro dscp-operator-value*                       string
|  |            |     +--ro fragment-operator-value*                   string
|  |            +--ro actions
|  |              +--ro traffic-rate
|  |              |  +--ro state
|  |              |     +--ro rate?        uint32
|  |              |     +--ro rate-unit?   ipi-bgp-flowspec-types:bgp_flowspec_rate_unit_t
|  |              +--ro traffic-action
|  |              |  +--ro state
|  |              |     +--ro terminal-action?   empty
|  |              |     +--ro sample-action?     empty
|  |              +--ro traffic-redirect
|  |              |  +--ro state
|  |              |     +--ro as-type?           ipi-bgp-flowspec-types:bgp_flowspec_redirect_as_type_t
|  |              |     +--ro route-target-as?   string
|  |              |     +--ro vrf-id?            uint32
|  |              |     +--ro fib-id?            uint32
```


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```
|  |                 |  +--ro route-target-ip?   string
|  |                 +--ro set-dscp
|  |                   +--ro state
|  |                     +--ro dscp?   ipi-enhanced-pbr-types:epbr_hex_dscp_t
|  +--rw allocate-label {feature-list:HAVE_BGP_LU}?
|  |  +--rw config
|  |  |  +--rw all-routes?       empty {feature-list:HAVE_BGP_LU}?
|  |  |  +--rw route-map-name?   string {feature-list:HAVE_BGP_LU}?
|  |  +--ro state
|  |     +--ro all-routes?       empty {feature-list:HAVE_BGP_LU}?
|  |     +--ro route-map-name?   string {feature-list:HAVE_BGP_LU}?
|  +--rw address-families
|  |  +--rw address-family* [afi safi]
|  |     +--rw afi                    -> ../config/afi
|  |     +--rw safi                   -> ../config/safi
|  |     +--rw config
|  |     |  +--rw afi?                          ipi-bgp-types:bgp_afi_type_t
|  |     |  +--rw safi?                         ipi-bgp-types:bgp_safi_type_t
|  |     |  +--rw additional-path-fast-reroute?        empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
|  |     |  +--rw additional-paths-mode?               ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |     |  +--rw additional-path-select-all?          empty {feature-list:HAVE_BGP_ADD_PATH}?
|  |     |  +--rw additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
|  |     |  +--rw no-client-route-reflection?          empty
|  |     |  +--rw multi-path?                        empty
|  |     |  +--rw enable-auto-summary?                empty
|  |     |  +--rw enable-additional-path-pic?         empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
|  |     |  +--rw enable-network-igp-sync?            empty
|  |     |  +--rw enable-igp-sync?                   empty
|  |     |  +--rw enable-bgp-implicit-null?           empty
|  |     +--ro state
|  |     |  +--ro afi?                          ipi-bgp-types:bgp_afi_type_t
|  |     |  +--ro safi?                         ipi-bgp-types:bgp_safi_type_t
|  |     |  +--ro additional-path-fast-reroute?        empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
|  |     |  +--ro additional-paths-mode?               ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |     |  +--ro additional-path-select-all?          empty {feature-list:HAVE_BGP_ADD_PATH}?
```

```
|    |    | +--ro additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
|    |    | +--ro no-client-route-reflection?           empty
|    |    | +--ro multi-path?                           empty
|    |    | +--ro enable-auto-summary?                  empty
|    |    | +--ro enable-additional-path-pic?           empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
|    |    | +--ro enable-network-igp-sync?              empty
|    |    | +--ro enable-igp-sync?                      empty
|    |    | +--ro enable-bgp-implicit-null?             empty
|    |    +--rw network-lists
|    |    | +--rw network-list* [local-network-prefix]
|    |    |    +--rw local-network-prefix    -> ../config/local-network-prefix
|    |    |    +--rw config
|    |    |    | +--rw local-network-prefix?   ipi-bgp-types:bgp_ip_network_t
|    |    |    | +--rw network-rmap-name?      string
|    |    |    | +--rw backdoor?               empty
|    |    |    +--ro state
|    |    |       +--ro network-path-route-count?           int32
|    |    |       +--ro no-advertise-route?                 string
|    |    |       +--ro no-export-route?                    boolean
|    |    |       +--ro local-as-route?                     boolean
|    |    |       +--ro suppress-route?                     boolean
|    |    |       +--ro network-best-path-route-count?      int32
|    |    |       +--ro ip-routing-table?                   string
|    |    |       +--ro advertised-non-peer-group-address*   ipi-bgp-types:bgp_hostname_t
|    |    |       +--ro advertised-peer-group-name-route*    string
|    |    |       +--ro advertised-any-peer?                boolean
|    |    |       +--ro route-distinguisher-string?         string {feature-list:HAVE_MPLS}?
|    |    |       +--ro local-network-prefix?               ipi-bgp-types:bgp_ip_network_t
|    |    |       +--ro network-rmap-name?                  string
|    |    |       +--ro backdoor?                           empty
|    |    +--rw aggregate-address-lists
|    |    | +--rw aggregate-address-list* [aggregate-address]
|    |    |    +--rw aggregate-address    -> ../config/aggregate-address
|    |    |    +--rw config
|    |    |    | +--rw aggregate-address?   cml-data-types:cml_ip_prefix_t
|    |    |    | +--rw aggregate-type?      ipi-bgp-types:bgp_aggregate_type_t
```


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```
|    |    |    +--ro state
|    |    |       +--ro aggregate-address?   cml-data-types:cml_ip_prefix_t
|    |    |       +--ro aggregate-type?      ipi-bgp-types:bgp_aggregate_type_t
|    |    +--rw distances
|    |    |  +--rw distance* [ebgp ibgp local]
|    |    |     +--rw ebgp      -> ../config/ebgp
|    |    |     +--rw ibgp      -> ../config/ibgp
|    |    |     +--rw local     -> ../config/local
|    |    |     +--rw config
|    |    |     |  +--rw ebgp?    uint8
|    |    |     |  +--rw ibgp?    uint8
|    |    |     |  +--rw local?   uint8
|    |    |     +--ro state
|    |    |        +--ro ebgp?    uint8
|    |    |        +--ro ibgp?    uint8
|    |    |        +--ro local?   uint8
|    |    +--rw maximum-paths
|    |    |  +--rw config
|    |    |  |  +--rw ebgp-max-path?    int32
|    |    |  |  +--rw ibgp-max-path?    int32
|    |    |  |  +--rw eibgp-max-path?   int32
|    |    |  +--ro state
|    |    |     +--ro ebgp-max-path?    int32
|    |    |     +--ro ibgp-max-path?    int32
|    |    |     +--ro eibgp-max-path?   int32
|    |    +--rw table-map {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    |  +--rw config!
|    |    |  |  +--rw map-name            string {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    |  |  +--rw table-map-filter?   boolean {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    |  +--ro state
|    |    |     +--ro map-name            string {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    |     +--ro table-map-filter?   boolean {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    +--rw route-flap-dampenings
|    |    |  +--rw route-flap-dampening* [enable-dampening]
|    |    |     +--rw enable-dampening    -> ../config/enable-dampening
|    |    |     +--rw config
```

```
|    |    |    | +--rw enable-dampening?      ipi-bgp-types:bgp_dampening_t
|    |    |    | +--rw reach-half-life?       uint32
|    |    |    | +--rw reuse-penalty?         uint32
|    |    |    | +--rw suppress-penalty?      uint32
|    |    |    | +--rw max-suppress-time?     uint32
|    |    |    | +--rw unreach-half-life?     uint32
|    |    |    | +--rw dampening-rmap-name?   string
|    |    |    +--ro state
|    |    |      +--ro enable-dampening?      ipi-bgp-types:bgp_dampening_t
|    |    |      +--ro reach-half-life?       uint32
|    |    |      +--ro reuse-penalty?         uint32
|    |    |      +--ro suppress-penalty?      uint32
|    |    |      +--ro max-suppress-time?     uint32
|    |    |      +--ro unreach-half-life?     uint32
|    |    |      +--ro dampening-rmap-name?   string
|    |    |      +--ro maximum-penalty-ceil?  int32
|    |    |      +--ro minimum-penalty-ceil?  int32
|    |    +--rw route-redistribute-lists
|    |    | +--rw route-redistribute-list* [protocol-type]
|    |    |    +--rw protocol-type    -> ../config/protocol-type
|    |    |    +--rw config
|    |    |    | +--rw protocol-type?          ipi-bgp-types:bgp_redistribute_type_t
|    |    |    | +--rw redist-route-map-name   string
|    |    |    +--ro state
|    |    |      +--ro protocol-type?          ipi-bgp-types:bgp_redistribute_type_t
|    |    |      +--ro redist-route-map-name   string
|    |    +--rw bgp-redistributes-ospf
|    |    | +--rw bgp-redistribute-ospf* [ospf-instance-number]
|    |    |    +--rw ospf-instance-number    -> ../config/ospf-instance-number
|    |    |    +--rw config
|    |    |    | +--rw ospf-instance-number?         ipi-bgp-types:cml_ospf_area_id_t
|    |    |    | +--rw redistribute-ospf-route-map?  string
|    |    |    +--ro state
|    |    |      +--ro ospf-instance-number?         ipi-bgp-types:cml_ospf_area_id_t
|    |    |      +--ro redistribute-ospf-route-map?  string
|    |    +--rw bgp-srv6 {feature-list:HAVE_SRV6}?
```


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```
|    |    | +--rw config!
|    |    | |  +--rw bgpSRv6enable    empty
|    |    | +--ro state
|    |    | |  +--ro bgpSRv6enable    empty
|    |    | +--rw locators
|    |    |    +--rw locator* [bgpSRv6LocatorName]
|    |    |       +--rw bgpSRv6LocatorName    -> ../config/bgpSRv6LocatorName
|    |    |       +--rw config
|    |    |       |  +--rw bgpSRv6LocatorName?   string
|    |    |       +--ro state
|    |    |          +--ro bgpSRv6LocatorName?   string
|    |    +--rw as-origin {feature-list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|    |       +--rw config
|    |       |  +--rw validation-enable?        empty
|    |       |  +--rw bestpath-use-validity?    empty
|    |       |  +--rw bestpath-allow-invalid?   empty
|    |       +--ro state
|    |          +--ro validation-enable?        empty
|    |          +--ro bestpath-use-validity?    empty
|    |          +--ro bestpath-allow-invalid?   empty
|    +--rw peer-groups
|    |  +--rw peer-group* [peer-group-tag]
|    |     +--rw peer-group-tag       -> ../config/peer-group-tag
|    |     +--rw config
|    |     |  +--rw peer-group-tag?                  string
|    |     |  +--rw peer-group-range                 ipi-bgp-types:bgp_peer_group_type_t
|    |     |  +--rw group-limit?                     uint16
|    |     |  +--rw peer-as?                         uint32
|    |     |  +--rw graceful-shut?                   empty
|    |     |  +--rw enable-peer-bfd?                 empty {feature-list:HAVE_BFD}?
|    |     |  +--rw enable-peer-bfd-multihop?        empty {feature-list:HAVE_BFD}?
|    |     |  +--rw graceful-shutdown-timer?         uint32
|    |     |  +--rw peer-restart-time?               uint32 {feature-list:HAVE_RESTART}?
|    |     |  +--rw peer-description?                cml-data-types:cml_line_t
|    |     |  +--rw peer-connect-interval?           uint32
|    |     |  +--rw peer-as-origin-interval?         uint32
```

```
|    |    | +--rw min-route-advertisement-interval?   uint32
|    |    | +--rw enable-dynamic-capability?          empty
|    |    | +--rw collide-established?                empty
|    |    | +--rw source-identifier?                  string
|    |    | +--rw enforce-multi-hop?                  empty
|    |    | +--rw neighbor-override-capability?       empty
|    |    | +--rw neighbor-strict-capability-match?   empty
|    |    | +--rw disallow-infinite-hold-time?        empty
|    |    | +--rw neighbor-passive?                   empty
|    |    | +--rw peer-shutdown?                      empty
|    |    | +--rw peer-shutdown-description?          cml-data-types:cml_line_t
|    |    | +--rw peer-port?                          uint16
|    |    | +--rw bgp-version?                        uint8
|    |    | +--rw enable-ext-opt-param-len?           empty
|    |    | +--rw tcp-adjust-mss?                     uint16
|    |    +--ro state
|    |    | +--ro peer-group-tag?                     string
|    |    | +--ro peer-group-range                    ipi-bgp-types:bgp_peer_group_type_t
|    |    | +--ro group-limit?                        uint16
|    |    | +--ro peer-type?                          ipi-bgp-types:bgp_peer_type_t
|    |    | +--ro peer-as?                            uint32
|    |    | +--ro graceful-shut?                      empty
|    |    | +--ro enable-peer-bfd?                    empty {feature-list:HAVE_BFD}?
|    |    | +--ro enable-peer-bfd-multihop?           empty {feature-list:HAVE_BFD}?
|    |    | +--ro graceful-shutdown-timer?            uint32
|    |    | +--ro peer-restart-time?                  uint32 {feature-list:HAVE_RESTART}?
|    |    | +--ro peer-description?                   cml-data-types:cml_line_t
|    |    | +--ro peer-connect-interval?              uint32
|    |    | +--ro peer-as-origin-interval?            uint32
|    |    | +--ro min-route-advertisement-interval?   uint32
|    |    | +--ro enable-dynamic-capability?          empty
|    |    | +--ro collide-established?                empty
|    |    | +--ro source-identifier?                  string
|    |    | +--ro enforce-multi-hop?                  empty
|    |    | +--ro neighbor-override-capability?       empty
|    |    | +--ro neighbor-strict-capability-match?   empty
```


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```
|    |    | +--ro disallow-infinite-hold-time?        empty
|    |    | +--ro neighbor-passive?                   empty
|    |    | +--ro peer-shutdown?                      empty
|    |    | +--ro peer-shutdown-description?          cml-data-types:cml_line_t
|    |    | +--ro peer-port?                          uint16
|    |    | +--ro bgp-version?                        uint8
|    |    | +--ro enable-ext-opt-param-len?           empty
|    |    | +--ro tcp-adjust-mss?                     uint16
|    |    +--rw timers
|    |    | +--rw config!
|    |    | |  +--rw keep-alive    uint16
|    |    | |  +--rw hold-time     uint16
|    |    | +--ro state
|    |    |    +--ro keep-alive    uint16
|    |    |    +--ro hold-time     uint16
|    |    +--rw ebgp-multihop
|    |    | +--rw config!
|    |    | |  +--rw maximum-hop-count?   uint8
|    |    | |  +--rw enabled              empty
|    |    | +--ro state
|    |    |    +--ro maximum-hop-count?   uint8
|    |    |    +--ro enabled              empty
|    |    +--rw bgp-passwords
|    |    | +--rw bgp-password* [password]
|    |    |    +--rw password    -> ../config/password
|    |    |    +--rw config
|    |    |    |  +--rw password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|    |    |    |  +--rw auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|    |    |    +--ro state
|    |    |       +--ro password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|    |    |       +--ro auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|    |    +--rw optional-as-lists
|    |    | +--rw optional-as-list* [optional-as]
|    |    |    +--rw optional-as    -> ../config/optional-as
|    |    |    +--rw config
|    |    |    |  +--rw optional-as?   uint32
```

```
   |    |    |    +--ro state
   |    |    |       +--ro optional-as?   uint32
   |    |    +--rw local-as
   |    |    |  +--rw local-as-list* [peer-local-as]
   |    |    |    +--rw peer-local-as    -> ../config/peer-local-as
   |    |    |    +--rw config
   |    |    |    |  +--rw peer-local-as?         uint32
   |    |    |    |  +--rw no-prepend-local-as?   empty
   |    |    |    |  +--rw replace-local-as?      empty
   |    |    |    +--ro state
   |    |    |       +--ro peer-local-as?         uint32
   |    |    |       +--ro no-prepend-local-as?   empty
   |    |    |       +--ro replace-local-as?      empty
   |    |    +--rw address-families
   |    |       +--rw address-family* [afi safi]
   |    |          +--rw afi                    -> ../config/afi
   |    |          +--rw safi                    -> ../config/safi
   |    |          +--rw config
   |    |          |  +--rw afi?                           ipi-bgp-types:bgp_afi_type_t
   |    |          |  +--rw safi?                          ipi-bgp-types:bgp_safi_type_t
   |    |          |  +--rw additional-paths-mode?              ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
   |    |          |  +--rw additional-path-select-all?         empty {feature-list:HAVE_BGP_ADD_PATH}?
   |    |          |  +--rw additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
   |    |          |  +--rw route-server-client?                empty
   |    |          |  +--rw next-hop-self?                      empty
   |    |          |  +--rw activate?                           empty
   |    |          |  +--rw default-peer-route-map-name?        empty
   |    |          |  +--rw peer-route-map-orig-name?           string
   |    |          |  +--rw weight?                             uint16
   |    |          |  +--rw flowspec-validation-disable?        empty {feature-list:HAVE_BGP_FLOWSPEC}?
   |    |          |  +--rw peer-route-reflector?               empty
   |    |          |  +--rw peer-remove-private-as?             empty
   |    |          |  +--rw no-send-community?                  empty
   |    |          |  +--rw no-send-community-type?             ipi-bgp-types:bgp_send_commu_type_t
   |    |          |  +--rw neighbor-attribute-unchanged?       ipi-bgp-types:bgp_attribute_unchanged_type_t
   |    |          |  +--rw orf-prefix-capability?              ipi-bgp-types:bgp_orf_prefix_type_t
```


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```
|  |  |  +--rw peer-allow-ebgp-vpn?                empty {feature-list:HAVE_VRF}?
|  |  |  +--rw allow-as-number?                    uint32
|  |  |  +--rw capability-graceful-restart?        empty
|  |  |  +--rw unsuppress-route-map-name?          string
|  |  +--ro state
|  |  |  +--ro afi?                             ipi-bgp-types:bgp_afi_type_t
|  |  |  +--ro safi?                            ipi-bgp-types:bgp_safi_type_t
|  |  |  +--ro additional-paths-mode?           ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro additional-path-select-all?      empty {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro additional-paths-best-select-count?  uint8 {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro route-server-client?             empty
|  |  |  +--ro next-hop-self?                   empty
|  |  |  +--ro activate?                        empty
|  |  |  +--ro default-peer-route-map-name?     empty
|  |  |  +--ro peer-route-map-orig-name?        string
|  |  |  +--ro weight?                          uint16
|  |  |  +--ro flowspec-validation-disable?     empty {feature-list:HAVE_BGP_FLOWSPEC}?
|  |  |  +--ro peer-route-reflector?            empty
|  |  |  +--ro peer-remove-private-as?          empty
|  |  |  +--ro no-send-community?               empty
|  |  |  +--ro no-send-community-type?          ipi-bgp-types:bgp_send_commu_type_t
|  |  |  +--ro neighbor-attribute-unchanged?    ipi-bgp-types:bgp_attribute_unchanged_type_t
|  |  |  +--ro orf-prefix-capability?           ipi-bgp-types:bgp_orf_prefix_type_t
|  |  |  +--ro peer-allow-ebgp-vpn?             empty {feature-list:HAVE_VRF}?
|  |  |  +--ro allow-as-number?                 uint32
|  |  |  +--ro capability-graceful-restart?     empty
|  |  |  +--ro unsuppress-route-map-name?       string
|  |  +--rw maximum-prefixes
|  |  |  +--rw maximum-prefix* [prefix-count]
|  |  |     +--rw prefix-count    -> ../config/prefix-count
|  |  |     +--rw config
|  |  |     |  +--rw prefix-count?            uint32
|  |  |     |  +--rw stop-update?             empty
|  |  |     |  +--rw maximum-prefix-warning?  empty
|  |  |     |  +--rw threshold-percentage?    uint8
|  |  |     |  +--rw warning-only?            empty
```

```
|   |       |   +--ro state
|   |       |     +--ro prefix-count?            uint32
|   |       |     +--ro stop-update?             empty
|   |       |     +--ro maximum-prefix-warning?  empty
|   |       |     +--ro threshold-percentage?    uint8
|   |       |     +--ro warning-only?            empty
|   |       +--rw distribute-list-filters
|   |       | +--rw distribute-list-filter* [filter-direction]
|   |       |   +--rw filter-direction   -> ../config/filter-direction
|   |       |   +--rw config
|   |       |   | +--rw access-list-identifier   string
|   |       |   | +--rw filter-direction?        ipi-bgp-types:bgp_distribute_list_direction_t
|   |       |   +--ro state
|   |       |     +--ro access-list-identifier   string
|   |       |     +--ro filter-direction?        ipi-bgp-types:bgp_distribute_list_direction_t
|   |       +--rw as-list-filters
|   |       | +--rw as-list-filter* [as-list-direction]
|   |       |   +--rw as-list-direction   -> ../config/as-list-direction
|   |       |   +--rw config
|   |       |   | +--rw as-access-list-identifier   string
|   |       |   | +--rw as-list-direction?          ipi-bgp-types:bgp_distribute_list_direction_t
|   |       |   +--ro state
|   |       |     +--ro as-access-list-identifier   string
|   |       |     +--ro as-list-direction?          ipi-bgp-types:bgp_distribute_list_direction_t
|   |       +--rw prefix-list-filters
|   |       | +--rw prefix-list-filter* [prefix-filter-direction]
|   |       |   +--rw prefix-filter-direction   -> ../config/prefix-filter-direction
|   |       |   +--rw config
|   |       |   | +--rw prefix-list-name          string
|   |       |   | +--rw prefix-filter-direction?  ipi-bgp-types:bgp_distribute_list_direction_t
|   |       |   +--ro state
|   |       |     +--ro prefix-list-name          string
|   |       |     +--ro prefix-filter-direction?  ipi-bgp-types:bgp_distribute_list_direction_t
|   |       +--rw route-map-filters
|   |       | +--rw route-map-filter* [route-map-direction]
|   |       |   +--rw route-map-direction   -> ../config/route-map-direction
```


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```
|  |  |  +--rw config
|  |  |  |  +--rw route-map-name         string
|  |  |  |  +--rw route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|  |  |  +--ro state
|  |  |     +--ro route-map-name         string
|  |  |     +--ro route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|  |  +--rw aigp {feature-list:HAVE_BGP_AIGP}?
|  |  |  +--rw config
|  |  |  |  +--rw admin-status?    cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
|  |  |  |  +--rw aigp-send-med?   empty
|  |  |  +--ro state
|  |  |  |  +--ro admin-status?    cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
|  |  |  |  +--ro aigp-send-med?   empty
|  |  |  +--rw cost-community {feature-list:HAVE_BGP_AIGP}?
|  |  |  |  +--rw config!
|  |  |  |  |  +--rw send-cost-community-id    uint8 {feature-list:HAVE_BGP_AIGP}?
|  |  |  |  |  +--rw point-of-insertion        ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
|  |  |  |  |  +--rw enable-transitive?        empty {feature-list:HAVE_BGP_AIGP}?
|  |  |  |  +--ro state
|  |  |  |     +--ro send-cost-community-id    uint8 {feature-list:HAVE_BGP_AIGP}?
|  |  |  |     +--ro point-of-insertion        ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
|  |  |  |     +--ro enable-transitive?        empty {feature-list:HAVE_BGP_AIGP}?
|  |  +--ro dynamic-peers
|  |     +--ro dynamic-peer* [dynamic-peer-address]
|  |        +--ro dynamic-peer-address    -> ../state/dynamic-peer-address
|  |        +--ro state
|  |        |  +--ro counters
|  |        |  |  +--ro keepalive-in-messages?          int32
|  |        |  |  +--ro keepalive-out-messages?         int32
|  |        |  |  +--ro open-messages-in?               int32
|  |        |  |  +--ro open-messages-out?              int32
|  |        |  |  +--ro as-path-count?                  int32
|  |        |  |  +--ro as-path-extended-count?         int32
|  |        |  |  +--ro received-packet-count?          int32
|  |        |  |  +--ro packet-in-queue?                int32
```

```
|  |  |  | +--ro packet-out-queue?                int32
|  |  |  | +--ro sent-packet-count?               int32
|  |  |  | +--ro refresh-received-packet-count?   int32
|  |  |  | +--ro refresh-sent-packet-count?       int32
|  |  |  +--ro dynamic-peer-address?                 ipi-bgp-types:bgp_ip_addr_t
|  |  |  +--ro max-paths-ibgp?                       int16
|  |  |  +--ro configured-max-paths-ebgp?            int16
|  |  |  +--ro max-paths-ebgp?                       int16
|  |  |  +--ro configured-max-paths-ibgp?            int16
|  |  |  +--ro max-paths-eibgp?                      int16
|  |  |  +--ro configured-max-paths-eibgp?           int16
|  |  |  +--ro community-count?                      int32
|  |  |  +--ro confederation-id-check?               boolean
|  |  |  +--ro peer-and-extended-asn-capability?     ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  +--ro address-family-capability?            ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  +--ro ipv6-next-hop-global?                 inet:ipv6-address
|  |  |  +--ro ipv6-next-hop-local?                  inet:ipv6-address
|  |  |  +--ro remote-port?                          int32
|  |  |  +--ro remote-address?                       ipi-bgp-types:bgp_hostname_t
|  |  |  +--ro local-host?                           ipi-bgp-types:bgp_hostname_t
|  |  |  +--ro ipv4-next-hop?                        inet:ipv4-address
|  |  |  +--ro local-port?                           int32
|  |  |  +--ro default-information-originate?        boolean
|  |  |  +--ro inbound-path-policy?                  boolean
|  |  |  +--ro outbound-path-policy?                 boolean
|  |  |  +--ro default-originate-information-sent?   cml-data-types:cml_line_t
|  |  |  +--ro graceful-restart?                     ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  +--ro address-family-dependent-capability?  boolean
|  |  |  +--ro peer-address-family-table-version?    int32
|  |  |  +--ro address-family-table-version?         int32
|  |  |  +--ro forward-status-preserve?              string
|  |  |  +--ro orf-type-prefix?                      cml-data-types:cml_line_t
|  |  |  +--ro orf-type-prefix-send-mode?            ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  +--ro orf-type-prefix-receive-mode?         ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  +--ro orf-type-prefix-old?                  cml-data-types:cml_line_t
|  |  |  +--ro orf-type-prefix-send-mode-old?        ipi-bgp-types:bgp_adv_rcv_type_t
```


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```
|  |  |  +--ro orf-type-prefix-receive-mode-old?       ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  +--ro prefix-count?                           int32
|  |  |  +--ro send-prefix-count?                      int32
|  |  |  +--ro flag-shut-down?                         ipi-bgp-types:bgp_peerflag_shutdown_t
|  |  |  +--ro count?                                  int32
|  |  |  +--ro notify-info?                            boolean
|  |  |  +--ro notify-last-reset-time?                 string
|  |  |  +--ro connection-type?                        ipi-bgp-types:bgp_connection_type_t
|  |  |  +--ro next-connection-timer?                  int32
|  |  |  +--ro connection-dropped-count?               int32
|  |  |  +--ro graceful-restart-status?                string
|  |  |  +--ro graceful-restart-time?                  int32
|  |  |  +--ro bgp-established-up-time?                string
|  |  |  +--ro last-read-time?                         string
|  |  |  +--ro link-type?                              ipi-bgp-types:bgp_link_type_t
|  |  |  +--ro ebgp-hop-away-count?                    int32
|  |  |  +--ro router-id?                              inet:ipv4-address
|  |  |  +--ro advertisement-interval?                 int32
|  |  |  +--ro calculated-hold-time?                   int32
|  |  |  +--ro calculated-keepalive?                   int32
|  |  |  +--ro dynamic-capability?                     cml-data-types:cml_line_t
|  |  |  +--ro route-refresh-capability?               ipi-bgp-types:bgp_route_refresh_cap_type_t
|  |  |  +--ro no-interface-binding?                   boolean
|  |  |  +--ro additional-path-receive-capability?     ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro additional-path-send-capability?        ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro capability-ipv4-unicast?                ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro capability-label-unicast?               ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?
|  |  |  +--ro capability-ipv4-multicast?              ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro capability-vpnv4-unicast?               ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro capability-vpnv6-unicast?               ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro capability-rtfilter-unicast?            ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro capability-l2vpn-evpn?                  ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro capability-ipv6-unicast?                ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro capability-ipv6-multicast?              ipi-bgp-types:bgp_capability_type_t
```

```
|  |  |  +--ro capability-ipv6-label-unicast?          ipi-bgp-types:bgp_capability_type_t
|  |  |  +--ro evpn-ad-route-count?                    uint32 {feature-list:HAVE_BGP_EVPN}?
|  |  |  +--ro evpn-mac-ip-route-count?                uint32 {feature-list:HAVE_BGP_EVPN}?
|  |  |  +--ro evpn-inclusive-multicast-route-count?   uint32 {feature-list:HAVE_BGP_EVPN}?
|  |  |  +--ro evpn-segment-route-count?               uint32 {feature-list:HAVE_BGP_EVPN}?
|  |  |  +--ro evpn-ip-prefix-route-count?             uint32 {feature-list:HAVE_BGP_EVPN}?
|  |  +--ro peer-adj-out-routes
|  |    +--ro peer-adj-out-route* [network-address]
|  |      +--ro network-address    -> ../state/network-address
|  |      +--ro state
|  |      |  +--ro network-address?   ipi-bgp-types:bgp_ip_network_t
|  |      +--ro next-hops
|  |        +--ro next-hop* [next-hop-address]
|  |          +--ro next-hop-address    -> ../state/next-hop-address
|  |          +--ro state
|  |            +--ro next-hop-address?              ipi-bgp-types:bgp_hostname_t
|  |            +--ro peer-network-weight?           uint32
|  |            +--ro flap-time-reuse-list?          string
|  |            +--ro flap-record-duration?          string
|  |            +--ro damp-time-to-reuse?            string
|  |            +--ro bgp-med-value?                 uint32
|  |            +--ro bgp-as-path-string*            cml-data-types:cml_line_t
|  |            +--ro bgp-as-path-4-byte-string*     string
|  |            +--ro bgp-as-path-4-byte-origin?     ipi-bgp-types:bgp_origin_t
|  |            +--ro ibgp-metric-route?             int32
|  |            +--ro aggregate-as-route?            int32
|  |            +--ro aggregator-address-route?      ipi-bgp-types:bgp_hostname_t
|  |            +--ro network-remote-address-route?  ipi-bgp-types:bgp_hostname_t
|  |            +--ro originator-id-route?           ipi-bgp-types:bgp_hostname_t
|  |            +--ro route-peer-address?            ipi-bgp-types:bgp_hostname_t
|  |            +--ro route-local-preference?        uint32
|  |            +--ro route-prefix-label?            uint32
|  |            +--ro route-community-string?        cml-data-types:cml_line_t
|  |            +--ro cluster-list-route*            ipi-bgp-types:bgp_hostname_t
|  |            +--ro route-penalty?                 int32
|  |            +--ro route-flap-count?              int32
```


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```
|  |                    +--ro last-update-route?              yang:date-and-time
|  |                    +--ro reflector-client-route?         boolean
|  |                    +--ro route-dampening-active?         boolean
|  |                    +--ro history-route?                  boolean
|  |                    +--ro nexthop-valid-route?            boolean
|  |                    +--ro med-flag-type-route?            boolean
|  |                    +--ro valid-route?                    boolean
|  |                    +--ro stale-route?                    boolean
|  |                    +--ro route-type?                     ipi-bgp-types:bgp_ri_type_t
|  |                    +--ro ecmp-multi-candidate-route?     boolean
|  |                    +--ro multi-installed-route?          boolean
|  |                    +--ro route-synchronized-flag-route?  boolean
|  |                    +--ro atomic-aggregate-route?         boolean
|  |                    +--ro selected-route?                 boolean
|  |                    +--ro bgp-tx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|  |                    +--ro bgp-rx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|  |                    +--ro ipv4-multicast-capability?      string
|  |                    +--ro vpnv4-unicast-capability?       string
|  |                    +--ro rtfilter-unicast-capability?    string
|  |                    +--ro l2vpn-evpn-capability?          string
|  |                    +--ro ipv6-unicast-capability?        string
|  |                    +--ro ipv6-multicast-capability?      string
|  |                    +--ro ipv6-label-unicast-capability?  string
|  |                    +--ro in-label?                       uint32 {feature-list:HAVE_BGP_LU}?
|  |                    +--ro out-label?                      uint32 {feature-list:HAVE_BGP_LU}?
|  |                    +--ro as-origin-validation-state?     ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|  +--rw peers
|  |  +--rw peer* [peer-address]
|  |     +--rw peer-address         -> ../config/peer-address
|  |     +--rw config
|  |     |  +--rw peer-address?                  ipi-bgp-types:bgp_ip_addr_t
|  |     |  +--rw peer-as?                       ipi-bgp-types:bgp_as_type_t
|  |     |  +--rw graceful-shut?                 empty
|  |     |  +--rw enable-peer-bfd?               empty {feature-list:HAVE_BFD}?
|  |     |  +--rw enable-peer-bfd-multihop?      empty {feature-list:HAVE_BFD}?
|  |     |  +--rw graceful-shutdown-timer?       uint32
```

```
|  |  | +--rw peer-restart-time?                uint32 {feature-list:HAVE_RESTART}?
|  |  | +--rw peer-description?                 cml-data-types:cml_line_t
|  |  | +--rw peer-connect-interval?            uint32
|  |  | +--rw peer-as-origin-interval?          uint32
|  |  | +--rw min-route-advertisement-interval? uint32
|  |  | +--rw enable-dynamic-capability?        empty
|  |  | +--rw collide-established?              empty
|  |  | +--rw source-identifier?                string
|  |  | +--rw enforce-multi-hop?                empty
|  |  | +--rw neighbor-override-capability?     empty
|  |  | +--rw neighbor-strict-capability-match? empty
|  |  | +--rw disallow-infinite-hold-time?      empty
|  |  | +--rw neighbor-passive?                 empty
|  |  | +--rw peer-shutdown?                    empty
|  |  | +--rw peer-shutdown-description?        cml-data-types:cml_line_t
|  |  | +--rw peer-port?                        uint16
|  |  | +--rw bgp-version?                      uint8
|  |  | +--rw interface-name?                   string
|  |  | +--rw mapped-peer-group-tag?            string
|  |  | +--rw enable-ext-opt-param-len?         empty
|  |  | +--rw tcp-adjust-mss?                   uint16
|  |  +--ro state
|  |  | +--ro counters
|  |  | | +--ro notification-in?      int32
|  |  | | +--ro notification-out?     int32
|  |  | | +--ro update-message-in?    int32
|  |  | | +--ro update-message-out?   int32
|  |  | +--ro peer-address?                     ipi-bgp-types:bgp_ip_addr_t
|  |  | +--ro peer-as?                          ipi-bgp-types:bgp_as_type_t
|  |  | +--ro graceful-shut?                    empty
|  |  | +--ro enable-peer-bfd?                  empty {feature-list:HAVE_BFD}?
|  |  | +--ro enable-peer-bfd-multihop?         empty {feature-list:HAVE_BFD}?
|  |  | +--ro graceful-shutdown-timer?          uint32
|  |  | +--ro peer-restart-time?                uint32 {feature-list:HAVE_RESTART}?
|  |  | +--ro peer-description?                 cml-data-types:cml_line_t
|  |  | +--ro peer-connect-interval?            uint32
```


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```
|    |    | +--ro peer-as-origin-interval?           uint32
|    |    | +--ro min-route-advertisement-interval?   uint32
|    |    | +--ro enable-dynamic-capability?          empty
|    |    | +--ro collide-established?                empty
|    |    | +--ro source-identifier?                  string
|    |    | +--ro enforce-multi-hop?                  empty
|    |    | +--ro neighbor-override-capability?       empty
|    |    | +--ro neighbor-strict-capability-match?   empty
|    |    | +--ro disallow-infinite-hold-time?        empty
|    |    | +--ro neighbor-passive?                   empty
|    |    | +--ro peer-shutdown?                      empty
|    |    | +--ro peer-shutdown-description?          cml-data-types:cml_line_t
|    |    | +--ro peer-port?                          uint16
|    |    | +--ro bgp-version?                        uint8
|    |    | +--ro interface-name?                     string
|    |    | +--ro mapped-peer-group-tag?              string
|    |    | +--ro enable-ext-opt-param-len?           empty
|    |    | +--ro tcp-adjust-mss?                     uint16
|    |    | +--ro peer-type?                          ipi-bgp-types:bgp_peer_type_t
|    |    | +--ro dynamically-configured?             boolean
|    |    | +--ro connection-established-count?       int32
|    |    | +--ro error-notify-sent?                  boolean
|    |    | +--ro notify-code-string?                 cml-data-types:cml_line_t
|    |    | +--ro bgp-peer-state?                     ipi-bgp-types:bgp_peer_status_t
|    |    | +--ro local-ip?                           ipi-bgp-types:bgp_ip_addr_t
|    |    | +--ro local-as?                           uint32
|    |    +--rw timers
|    |    | +--rw config!
|    |    | |  +--rw keep-alive    uint16
|    |    | |  +--rw hold-time     uint16
|    |    | +--ro state
|    |    |    +--ro keep-alive    uint16
|    |    |    +--ro hold-time     uint16
|    |    +--rw ebgp-multihop
|    |    | +--rw config!
|    |    | |  +--rw maximum-hop-count?   uint8
```

```
|    |    | |  +--rw enabled              empty
|    |    |  +--ro state
|    |    |     +--ro maximum-hop-count?   uint8
|    |    |     +--ro enabled              empty
|    |    +--rw local-as
|    |    |  +--rw local-as-list* [peer-local-as]
|    |    |     +--rw peer-local-as    -> ../config/peer-local-as
|    |    |     +--rw config
|    |    |     |  +--rw peer-local-as?         uint32
|    |    |     |  +--rw no-prepend-local-as?   empty
|    |    |     |  +--rw replace-local-as?      empty
|    |    |     +--ro state
|    |    |        +--ro peer-local-as?         uint32
|    |    |        +--ro no-prepend-local-as?   empty
|    |    |        +--ro replace-local-as?      empty
|    |    +--rw bgp-passwords
|    |    |  +--rw bgp-password* [password]
|    |    |     +--rw password    -> ../config/password
|    |    |     +--rw config
|    |    |     |  +--rw password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|    |    |     |  +--rw auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|    |    |     +--ro state
|    |    |        +--ro password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|    |    |        +--ro auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|    |    +--rw address-families
|    |    |  +--rw address-family* [afi safi]
|    |    |     +--rw afi                     -> ../config/afi
|    |    |     +--rw safi                     -> ../config/safi
|    |    |     +--ro peer-adj-out-route* [network-address]
|    |    |     |  +--ro network-address    -> ../state/network-address
|    |    |     |  +--ro next-hop* [next-hop-address]
|    |    |     |  |  +--ro next-hop-address    -> ../state/next-hop-address
|    |    |     |  |  +--ro state
|    |    |     |  |     +--ro next-hop-address?              ipi-bgp-types:bgp_hostname_t
|    |    |     |  |     +--ro peer-network-weight?           uint32
|    |    |     |  |     +--ro flap-time-reuse-list?          string
```


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```
|   |   |   | |   +--ro flap-record-duration?           string
|   |   |   | |   +--ro damp-time-to-reuse?             string
|   |   |   | |   +--ro bgp-med-value?                  uint32
|   |   |   | |   +--ro bgp-as-path-string*             cml-data-types:cml_line_t
|   |   |   | |   +--ro bgp-as-path-4-byte-string*      string
|   |   |   | |   +--ro bgp-as-path-4-byte-origin?      ipi-bgp-types:bgp_origin_t
|   |   |   | |   +--ro ibgp-metric-route?              int32
|   |   |   | |   +--ro aggregate-as-route?             int32
|   |   |   | |   +--ro aggregator-address-route?       ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro network-remote-address-route?   ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro originator-id-route?            ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro route-peer-address?             ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro route-local-preference?         uint32
|   |   |   | |   +--ro route-prefix-label?             uint32
|   |   |   | |   +--ro route-community-string?         cml-data-types:cml_line_t
|   |   |   | |   +--ro cluster-list-route*             ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro route-penalty?                  int32
|   |   |   | |   +--ro route-flap-count?               int32
|   |   |   | |   +--ro last-update-route?              yang:date-and-time
|   |   |   | |   +--ro reflector-client-route?         boolean
|   |   |   | |   +--ro route-dampening-active?         boolean
|   |   |   | |   +--ro history-route?                  boolean
|   |   |   | |   +--ro nexthop-valid-route?            boolean
|   |   |   | |   +--ro med-flag-type-route?            boolean
|   |   |   | |   +--ro valid-route?                    boolean
|   |   |   | |   +--ro stale-route?                    boolean
|   |   |   | |   +--ro route-type?                     ipi-bgp-types:bgp_ri_type_t
|   |   |   | |   +--ro ecmp-multi-candidate-route?     boolean
|   |   |   | |   +--ro multi-installed-route?          boolean
|   |   |   | |   +--ro route-synchronized-flag-route?  boolean
|   |   |   | |   +--ro atomic-aggregate-route?         boolean
|   |   |   | |   +--ro selected-route?                 boolean
|   |   |   | |   +--ro bgp-tx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   | |   +--ro bgp-rx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   | |   +--ro ipv4-multicast-capability?      string
|   |   |   | |   +--ro vpnv4-unicast-capability?       string
```

```
|  |  |  | |  +--ro rtfilter-unicast-capability?     string
|  |  |  | |  +--ro l2vpn-evpn-capability?           string
|  |  |  | |  +--ro ipv6-unicast-capability?         string
|  |  |  | |  +--ro ipv6-multicast-capability?       string
|  |  |  | |  +--ro ipv6-label-unicast-capability?   string
|  |  |  | |  +--ro in-label?                        uint32 {feature-list:HAVE_BGP_LU}?
|  |  |  | |  +--ro out-label?                       uint32 {feature-list:HAVE_BGP_LU}?
|  |  |  | |  +--ro as-origin-validation-state?      ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|  |  |  | +--ro state
|  |  |  |  |  +--ro network-address?   ipi-bgp-types:bgp_ip_network_t
|  |  |  |  +--ro peer-adj-in-route* [network-address]
|  |  |  | +--ro network-address    -> ../state/network-address
|  |  |  | +--ro next-hop* [next-hop-address]
|  |  |  | | +--ro next-hop-address    -> ../state/next-hop-address
|  |  |  | | +--ro state
|  |  |  | |  +--ro next-hop-address?               ipi-bgp-types:bgp_hostname_t
|  |  |  | |  +--ro peer-network-weight?            uint32
|  |  |  | |  +--ro flap-time-reuse-list?           string
|  |  |  | |  +--ro flap-record-duration?           string
|  |  |  | |  +--ro damp-time-to-reuse?             string
|  |  |  | |  +--ro bgp-med-value?                  uint32
|  |  |  | |  +--ro bgp-as-path-string*             cml-data-types:cml_line_t
|  |  |  | |  +--ro bgp-as-path-4-byte-string*      string
|  |  |  | |  +--ro bgp-as-path-4-byte-origin?      ipi-bgp-types:bgp_origin_t
|  |  |  | |  +--ro ibgp-metric-route?              int32
|  |  |  | |  +--ro aggregate-as-route?             int32
|  |  |  | |  +--ro aggregator-address-route?       ipi-bgp-types:bgp_hostname_t
|  |  |  | |  +--ro network-remote-address-route?   ipi-bgp-types:bgp_hostname_t
|  |  |  | |  +--ro originator-id-route?            ipi-bgp-types:bgp_hostname_t
|  |  |  | |  +--ro route-peer-address?             ipi-bgp-types:bgp_hostname_t
|  |  |  | |  +--ro route-local-preference?         uint32
|  |  |  | |  +--ro route-prefix-label?             uint32
|  |  |  | |  +--ro route-community-string?         cml-data-types:cml_line_t
|  |  |  | |  +--ro cluster-list-route*             ipi-bgp-types:bgp_hostname_t
|  |  |  | |  +--ro route-penalty?                  int32
|  |  |  | |  +--ro route-flap-count?               int32
```


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```
|   |   |   | |   +--ro last-update-route?              yang:date-and-time
|   |   |   | |   +--ro reflector-client-route?         boolean
|   |   |   | |   +--ro route-dampening-active?         boolean
|   |   |   | |   +--ro history-route?                  boolean
|   |   |   | |   +--ro nexthop-valid-route?            boolean
|   |   |   | |   +--ro med-flag-type-route?            boolean
|   |   |   | |   +--ro valid-route?                    boolean
|   |   |   | |   +--ro stale-route?                    boolean
|   |   |   | |   +--ro route-type?                     ipi-bgp-types:bgp_ri_type_t
|   |   |   | |   +--ro ecmp-multi-candidate-route?     boolean
|   |   |   | |   +--ro multi-installed-route?          boolean
|   |   |   | |   +--ro route-synchronized-flag-route?  boolean
|   |   |   | |   +--ro atomic-aggregate-route?         boolean
|   |   |   | |   +--ro selected-route?                 boolean
|   |   |   | |   +--ro bgp-tx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   | |   +--ro bgp-rx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   | |   +--ro ipv4-multicast-capability?      string
|   |   |   | |   +--ro vpnv4-unicast-capability?       string
|   |   |   | |   +--ro rtfilter-unicast-capability?    string
|   |   |   | |   +--ro l2vpn-evpn-capability?          string
|   |   |   | |   +--ro ipv6-unicast-capability?        string
|   |   |   | |   +--ro ipv6-multicast-capability?      string
|   |   |   | |   +--ro ipv6-label-unicast-capability?  string
|   |   |   | |   +--ro in-label?                       uint32 {feature-list:HAVE_BGP_LU}?
|   |   |   | |   +--ro out-label?                      uint32 {feature-list:HAVE_BGP_LU}?
|   |   |   | |   +--ro as-origin-validation-state?     ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|   |   |   | +--ro state
|   |   |   |   +--ro network-address?   ipi-bgp-types:bgp_ip_network_t
|   |   |   +--rw config
|   |   |   | +--rw afi?                            ipi-bgp-types:bgp_afi_type_t
|   |   |   | +--rw safi?                           ipi-bgp-types:bgp_safi_type_t
|   |   |   | +--rw additional-paths-mode?          ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|   |   |   | +--rw additional-path-select-all?     empty {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   | +--rw additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   | +--rw route-server-client?            empty
```

```
|  |  |  | +--rw next-hop-self?                      empty
|  |  |  | +--rw activate?                           empty
|  |  |  | +--rw de-activate?                        empty
|  |  |  | +--rw default-peer-route-map-name?        empty
|  |  |  | +--rw peer-route-map-orig-name?           string
|  |  |  | +--rw soft-reconfig?                      ipi-bgp-types:bgp_update_clear_t
|  |  |  | +--rw weight?                             uint16
|  |  |  | +--rw flowspec-validation-disable?        empty {feature-list:HAVE_BGP_FLOWSPEC}?
|  |  |  | +--rw peer-route-reflector?               empty
|  |  |  | +--rw peer-remove-private-as?             empty
|  |  |  | +--rw no-send-community?                  empty
|  |  |  | +--rw no-send-community-type?             ipi-bgp-types:bgp_send_commu_type_t
|  |  |  | +--rw neighbor-attribute-unchanged?       ipi-bgp-types:bgp_attribute_unchanged_type_t
|  |  |  | +--rw orf-prefix-capability?              ipi-bgp-types:bgp_orf_prefix_type_t
|  |  |  | +--rw peer-allow-ebgp-vpn?                empty {feature-list:HAVE_VRF}?
|  |  |  | +--rw allow-as-number?                    uint32
|  |  |  | +--rw capability-graceful-restart?        empty
|  |  |  | +--rw extended-nexthop-encode?            empty
|  |  |  | +--rw mapped-peer-group-tag-af?           string
|  |  |  | +--rw unsuppress-route-map-name?          string
|  |  |  +--ro state
|  |  |  | +--ro counters
|  |  |  | | +--ro keepalive-in-messages?            int32
|  |  |  | | +--ro keepalive-out-messages?           int32
|  |  |  | | +--ro open-messages-in?                 int32
|  |  |  | | +--ro open-messages-out?                int32
|  |  |  | | +--ro as-path-count?                    int32
|  |  |  | | +--ro as-path-extended-count?           int32
|  |  |  | | +--ro received-packet-count?            int32
|  |  |  | | +--ro packet-in-queue?                  int32
|  |  |  | | +--ro packet-out-queue?                 int32
|  |  |  | | +--ro sent-packet-count?                int32
|  |  |  | | +--ro refresh-received-packet-count?    int32
|  |  |  | | +--ro refresh-sent-packet-count?        int32
|  |  |  | +--ro afi?                                ipi-bgp-types:bgp_afi_type_t
|  |  |  | +--ro safi?                               ipi-bgp-types:bgp_safi_type_t
```


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```
    |   |   | +--ro additional-paths-mode?                ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
    |   |   | +--ro additional-path-select-all?           empty {feature-list:HAVE_BGP_ADD_PATH}?
    |   |   | +--ro additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
    |   |   | +--ro route-server-client?                  empty
    |   |   | +--ro next-hop-self?                        empty
    |   |   | +--ro activate?                             empty
    |   |   | +--ro de-activate?                          empty
    |   |   | +--ro default-peer-route-map-name?          empty
    |   |   | +--ro peer-route-map-orig-name?             string
    |   |   | +--ro soft-reconfig?                        ipi-bgp-types:bgp_update_clear_t
    |   |   | +--ro weight?                               uint16
    |   |   | +--ro flowspec-validation-disable?          empty {feature-list:HAVE_BGP_FLOWSPEC}?
    |   |   | +--ro peer-route-reflector?                 empty
    |   |   | +--ro peer-remove-private-as?               empty
    |   |   | +--ro no-send-community?                    empty
    |   |   | +--ro no-send-community-type?               ipi-bgp-types:bgp_send_commu_type_t
    |   |   | +--ro neighbor-attribute-unchanged?         ipi-bgp-types:bgp_attribute_unchanged_type_t
    |   |   | +--ro orf-prefix-capability?                ipi-bgp-types:bgp_orf_prefix_type_t
    |   |   | +--ro peer-allow-ebgp-vpn?                  empty {feature-list:HAVE_VRF}?
    |   |   | +--ro allow-as-number?                      uint32
    |   |   | +--ro capability-graceful-restart?          empty
    |   |   | +--ro extended-nexthop-encode?              empty
    |   |   | +--ro mapped-peer-group-tag-af?             string
    |   |   | +--ro unsuppress-route-map-name?            string
    |   |   | +--ro dynamic-peer-address?                 ipi-bgp-types:bgp_ip_addr_t
    |   |   | +--ro max-paths-ibgp?                       int16
    |   |   | +--ro configured-max-paths-ebgp?            int16
    |   |   | +--ro max-paths-ebgp?                       int16
    |   |   | +--ro configured-max-paths-ibgp?            int16
    |   |   | +--ro max-paths-eibgp?                      int16
    |   |   | +--ro configured-max-paths-eibgp?           int16
    |   |   | +--ro community-count?                      int32
    |   |   | +--ro confederation-id-check?               boolean
    |   |   | +--ro peer-and-extended-asn-capability?     ipi-bgp-types:bgp_adv_rcv_type_t
    |   |   | +--ro address-family-capability?            ipi-bgp-types:bgp_adv_rcv_type_t
    |   |   | +--ro ipv6-next-hop-global?                 inet:ipv6-address
```

```
|   |   |   | +--ro ipv6-next-hop-local?                  inet:ipv6-address
|   |   |   | +--ro remote-port?                          int32
|   |   |   | +--ro remote-address?                       ipi-bgp-types:bgp_hostname_t
|   |   |   | +--ro local-host?                           ipi-bgp-types:bgp_hostname_t
|   |   |   | +--ro ipv4-next-hop?                        inet:ipv4-address
|   |   |   | +--ro local-port?                           int32
|   |   |   | +--ro default-information-originate?        boolean
|   |   |   | +--ro inbound-path-policy?                  boolean
|   |   |   | +--ro outbound-path-policy?                 boolean
|   |   |   | +--ro default-originate-information-sent?   cml-data-types:cml_line_t
|   |   |   | +--ro graceful-restart?                     ipi-bgp-types:bgp_adv_rcv_type_t
|   |   |   | +--ro address-family-dependent-capability?  boolean
|   |   |   | +--ro peer-address-family-table-version?    int32
|   |   |   | +--ro address-family-table-version?         int32
|   |   |   | +--ro forward-status-preserve?              string
|   |   |   | +--ro orf-type-prefix?                      cml-data-types:cml_line_t
|   |   |   | +--ro orf-type-prefix-send-mode?            ipi-bgp-types:bgp_adv_rcv_type_t
|   |   |   | +--ro orf-type-prefix-receive-mode?         ipi-bgp-types:bgp_adv_rcv_type_t
|   |   |   | +--ro orf-type-prefix-old?                  cml-data-types:cml_line_t
|   |   |   | +--ro orf-type-prefix-send-mode-old?        ipi-bgp-types:bgp_adv_rcv_type_t
|   |   |   | +--ro orf-type-prefix-receive-mode-old?     ipi-bgp-types:bgp_adv_rcv_type_t
|   |   |   | +--ro prefix-count?                         int32
|   |   |   | +--ro send-prefix-count?                    int32
|   |   |   | +--ro flag-shut-down?                       ipi-bgp-types:bgp_peerflag_shutdown_t
|   |   |   | +--ro count?                                int32
|   |   |   | +--ro notify-info?                          boolean
|   |   |   | +--ro notify-last-reset-time?               string
|   |   |   | +--ro connection-type?                      ipi-bgp-types:bgp_connection_type_t
|   |   |   | +--ro next-connection-timer?                int32
|   |   |   | +--ro connection-dropped-count?             int32
|   |   |   | +--ro graceful-restart-status?              string
|   |   |   | +--ro graceful-restart-time?                int32
|   |   |   | +--ro bgp-established-up-time?              string
|   |   |   | +--ro last-read-time?                       string
|   |   |   | +--ro link-type?                            ipi-bgp-types:bgp_link_type_t
|   |   |   | +--ro ebgp-hop-away-count?                  int32
```


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```
    |    |    |    | +--ro router-id?                          inet:ipv4-address
    |    |    |    | +--ro advertisement-interval?             int32
    |    |    |    | +--ro calculated-hold-time?               int32
    |    |    |    | +--ro calculated-keepalive?               int32
    |    |    |    | +--ro dynamic-capability?                 cml-data-types:cml_line_t
    |    |    |    | +--ro route-refresh-capability?           ipi-bgp-types:bgp_route_refresh_cap_type_t
    |    |    |    | +--ro no-interface-binding?               boolean
    |    |    |    | +--ro additional-path-receive-capability?     ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
    |    |    |    | +--ro additional-path-send-capability?        ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
    |    |    |    | +--ro capability-ipv4-unicast?            ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-label-unicast?           ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?
    |    |    |    | +--ro capability-ipv4-multicast?          ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-vpnv4-unicast?           ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-vpnv6-unicast?           ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-rtfilter-unicast?        ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-l2vpn-evpn?              ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-ipv6-unicast?            ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-ipv6-multicast?          ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-ipv6-label-unicast?      ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro evpn-ad-route-count?                uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-mac-ip-route-count?            uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-inclusive-multicast-route-count?   uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-segment-route-count?           uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-ip-prefix-route-count?         uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    +--rw maximum-prefixes
    |    |    |    | +--rw maximum-prefix* [prefix-count]
    |    |    |    |    +--rw prefix-count    -> ../config/prefix-count
    |    |    |    |    +--rw config
    |    |    |    |    | +--rw prefix-count?            uint32
    |    |    |    |    | +--rw stop-update?             empty
    |    |    |    |    | +--rw maximum-prefix-warning?  empty
    |    |    |    |    | +--rw threshold-percentage?    uint8
    |    |    |    |    | +--rw warning-only?            empty
    |    |    |    |    +--ro state
```

```
|   |   |   |       +--ro prefix-count?            uint32
|   |   |   |       +--ro stop-update?             empty
|   |   |   |       +--ro maximum-prefix-warning?  empty
|   |   |   |       +--ro threshold-percentage?    uint8
|   |   |   |       +--ro warning-only?            empty
|   |   |   +--rw distribute-list-filters
|   |   |   |  +--rw distribute-list-filter* [filter-direction]
|   |   |   |     +--rw filter-direction    -> ../config/filter-direction
|   |   |   |     +--rw config
|   |   |   |     |  +--rw access-list-identifier    string
|   |   |   |     |  +--rw filter-direction?        ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   |     +--ro state
|   |   |   |        +--ro access-list-identifier    string
|   |   |   |        +--ro filter-direction?        ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   +--rw as-list-filters
|   |   |   |  +--rw as-list-filter* [as-list-direction]
|   |   |   |     +--rw as-list-direction    -> ../config/as-list-direction
|   |   |   |     +--rw config
|   |   |   |     |  +--rw as-access-list-identifier    string
|   |   |   |     |  +--rw as-list-direction?          ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   |     +--ro state
|   |   |   |        +--ro as-access-list-identifier    string
|   |   |   |        +--ro as-list-direction?          ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   +--rw prefix-list-filters
|   |   |   |  +--rw prefix-list-filter* [prefix-filter-direction]
|   |   |   |     +--rw prefix-filter-direction    -> ../config/prefix-filter-direction
|   |   |   |     +--rw config
|   |   |   |     |  +--rw prefix-list-name          string
|   |   |   |     |  +--rw prefix-filter-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   |     +--ro state
|   |   |   |        +--ro prefix-list-name          string
|   |   |   |        +--ro prefix-filter-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   +--rw route-map-filters
|   |   |   |  +--rw route-map-filter* [route-map-direction]
|   |   |   |     +--rw route-map-direction    -> ../config/route-map-direction
|   |   |   |     +--rw config
```


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```
|  |  |  |  |  +--rw route-map-name         string
|  |  |  |  |  +--rw route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|  |  |  |  +--ro state
|  |  |  |     +--ro route-map-name         string
|  |  |  |     +--ro route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|  |  |  +--ro outbound-route-filter
|  |  |  |  +--ro state
|  |  |  |     +--ro orf-prefix-string?   boolean
|  |  |  |     +--ro orf-prefix-send?     string
|  |  |  |     +--ro orf-prefix-count?    string
|  |  |  |     +--ro orf-wait-refresh?    boolean
|  |  |  +--ro peer-prefix
|  |  |  |  +--ro state
|  |  |  |     +--ro entry-sequence?     int32
|  |  |  |     +--ro entry-type?         ipi-bgp-types:bgp_prefix_entry_type_t
|  |  |  |     +--ro entry-max-length?   int32
|  |  |  |     +--ro entry-min-length?   int32
|  |  |  |     +--ro prefix-length?      int32
|  |  |  +--ro peer-index
|  |  |  |  +--ro state
|  |  |  |     +--ro peer-index?   int32
|  |  |  |     +--ro offset?       int32
|  |  |  |     +--ro mask?         string
|  |  |  +--rw aigp {feature-list:HAVE_BGP_AIGP}?
|  |  |     +--rw config
|  |  |     |  +--rw admin-status?    cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
|  |  |     |  +--rw aigp-send-med?   empty
|  |  |     +--ro state
|  |  |     |  +--ro admin-status?    cml-data-types:cml_enable_disable_t {feature-list:HAVE_BGP_AIGP}?
|  |  |     |  +--ro aigp-send-med?   empty
|  |  |     +--rw cost-community {feature-list:HAVE_BGP_AIGP}?
|  |  |        +--rw config!
|  |  |        |  +--rw send-cost-community-id    uint8 {feature-list:HAVE_BGP_AIGP}?
|  |  |        |  +--rw point-of-insertion        ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
|  |  |        |  +--rw enable-transitive?        empty {feature-list:HAVE_BGP_AIGP}?
|  |  |        +--ro state
```

```
    |    |    |            +--ro send-cost-community-id    uint8 {feature-list:HAVE_BGP_AIGP}?
    |    |    |            +--ro point-of-insertion        ipi-bgp-types:bgp_aigp_metric_cost_community_poi_t {feature-
list:HAVE_BGP_AIGP}?
    |    |    |            +--ro enable-transitive?        empty {feature-list:HAVE_BGP_AIGP}?
    |    |    +--rw egress-engineering
    |    |       +--rw config
    |    |       | +--rw enable-peer-node?   empty
    |    |       +--ro state
    |    |       | +--ro enable-peer-node?     empty
    |    |       | +--ro in-label?             uint32
    |    |       | +--ro nexthop-ip-address?   inet:ipv4-address
    |    |       | +--ro out-interface?        string
    |    |       +--rw peer-set
    |    |       | +--rw config
    |    |       | | +--rw set-name?   string
    |    |       | +--ro state
    |    |       |    +--ro set-name?             string
    |    |       |    +--ro in-label?             uint32
    |    |       |    +--ro nexthop-ip-address?   inet:ipv4-address
    |    |       |    +--ro out-interface?        string
    |    |       +--rw backup
    |    |       | +--rw peer-node
    |    |       | | +--rw config
    |    |       | | | +--rw address?   inet:ipv4-address
    |    |       | | +--ro state
    |    |       | |    +--ro address?              inet:ipv4-address
    |    |       | |    +--ro nexthop-ip-address?   inet:ipv4-address
    |    |       | |    +--ro out-interface?        string
    |    |       | +--rw adjacency
    |    |       |    +--rw config!
    |    |       |    | +--rw adjacent-address    inet:ipv4-address
    |    |       |    | +--rw nexthop-address     inet:ipv4-address
    |    |       |    +--ro state
    |    |       |       +--ro adjacent-address      inet:ipv4-address
    |    |       |       +--ro nexthop-address       inet:ipv4-address
    |    |       |       +--ro nexthop-ip-address?   inet:ipv4-address
    |    |       |       +--ro out-interface?        string
```


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```
   |    |       +--rw peer-adjacencies
   |    |         +--rw peer-adjacency* [hop-address]
   |    |           +--rw hop-address    -> ../config/hop-address
   |    |           +--rw config
   |    |           |  +--rw hop-address?   inet:ipv4-address
   |    |           +--ro state
   |    |           |  +--ro hop-address?         inet:ipv4-address
   |    |           |  +--ro in-label?            uint32
   |    |           |  +--ro nexthop-ip-address?   inet:ipv4-address
   |    |           |  +--ro out-interface?       string
   |    |           +--rw backup
   |    |             +--rw peer-node
   |    |             |  +--rw config
   |    |             |  |  +--rw address?   inet:ipv4-address
   |    |             |  +--ro state
   |    |             |     +--ro address?            inet:ipv4-address
   |    |             |     +--ro nexthop-ip-address?   inet:ipv4-address
   |    |             |     +--ro out-interface?       string
   |    |             +--rw adjacency
   |    |               +--rw config!
   |    |               |  +--rw adjacent-address    inet:ipv4-address
   |    |               |  +--rw nexthop-address     inet:ipv4-address
   |    |               +--ro state
   |    |                  +--ro adjacent-address      inet:ipv4-address
   |    |                  +--ro nexthop-address       inet:ipv4-address
   |    |                  +--ro nexthop-ip-address?   inet:ipv4-address
   |    |                  +--ro out-interface?        string
   |    +--rw address-family-vrfs
   |    |  +--rw address-family-vrf* [afi safi vrf-name]
   |    |     +--rw afi                    -> ../config/afi
   |    |     +--rw safi                    -> ../config/safi
   |    |     +--rw vrf-name                -> ../config/vrf-name
   |    |     +--rw config
   |    |     |  +--rw afi?                        ipi-bgp-types:bgp_vrf_afi_type_t
   |    |     |  +--rw safi?                       ipi-bgp-types:bgp_vrf_safi_type_t
   |    |     |  +--rw vrf-name?                   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
```

```
    |    |    | +--rw multipath-relax?                    empty
    |    |    | +--rw graceful-shutdown?                  empty
    |    |    | +--rw graceful-shutdown-capable?          empty
    |    |    | +--rw graceful-shutdown-local-preference?   uint32
    |    |    | +--rw additional-paths-mode?              ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
    |    |    | +--rw additional-path-select-all?         empty {feature-list:HAVE_BGP_ADD_PATH}?
    |    |    | +--rw additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
    |    |    | +--rw enable-pic?                         empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
    |    |    | +--rw enable-auto-summary?                empty
    |    |    | +--rw enable-additional-path-pic?         empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
    |    |    | +--rw enable-network-igp-sync?            empty
    |    |    | +--rw enable-igp-sync?                    empty
    |    |    | +--rw enable-bgp-implicit-null?           empty
    |    |    +--ro state
    |    |    | +--ro afi?                                ipi-bgp-types:bgp_vrf_afi_type_t
    |    |    | +--ro safi?                               ipi-bgp-types:bgp_vrf_safi_type_t
    |    |    | +--ro vrf-name?                           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
    |    |    | +--ro multipath-relax?                    empty
    |    |    | +--ro graceful-shutdown?                  empty
    |    |    | +--ro graceful-shutdown-capable?          empty
    |    |    | +--ro graceful-shutdown-local-preference?   uint32
    |    |    | +--ro additional-paths-mode?              ipi-bgp-types:bgp_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
    |    |    | +--ro additional-path-select-all?         empty {feature-list:HAVE_BGP_ADD_PATH}?
    |    |    | +--ro additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
    |    |    | +--ro enable-pic?                         empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
    |    |    | +--ro enable-auto-summary?                empty
    |    |    | +--ro enable-additional-path-pic?         empty {feature-list:HAVE_BGP_PIC_CORE_EDGE}?
    |    |    | +--ro enable-network-igp-sync?            empty
    |    |    | +--ro enable-igp-sync?                    empty
    |    |    | +--ro enable-bgp-implicit-null?           empty
    |    |    +--rw distances
    |    |    | +--rw distance* [ebgp ibgp local]
    |    |    |    +--rw ebgp      -> ../config/ebgp
    |    |    |    +--rw ibgp      -> ../config/ibgp
```


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```
|    |    |    +--rw local     -> ../config/local
|    |    |    +--rw config
|    |    |    | +--rw ebgp?    uint8
|    |    |    | +--rw ibgp?    uint8
|    |    |    | +--rw local?   uint8
|    |    |    +--ro state
|    |    |      +--ro ebgp?    uint8
|    |    |      +--ro ibgp?    uint8
|    |    |      +--ro local?   uint8
|    |    +--rw aggregate-address-lists
|    |    | +--rw aggregate-address-list* [aggregate-address]
|    |    |    +--rw aggregate-address    -> ../config/aggregate-address
|    |    |    +--rw config
|    |    |    | +--rw aggregate-address?   cml-data-types:cml_ip_prefix_t
|    |    |    | +--rw aggregate-type?      ipi-bgp-types:bgp_aggregate_type_t
|    |    |    +--ro state
|    |    |      +--ro aggregate-address?   cml-data-types:cml_ip_prefix_t
|    |    |      +--ro aggregate-type?      ipi-bgp-types:bgp_aggregate_type_t
|    |    +--rw maximum-paths
|    |    | +--rw config
|    |    | | +--rw ebgp-max-path?    int32
|    |    | | +--rw ibgp-max-path?    int32
|    |    | | +--rw eibgp-max-path?   int32
|    |    | +--ro state
|    |    |    +--ro ebgp-max-path?    int32
|    |    |    +--ro ibgp-max-path?    int32
|    |    |    +--ro eibgp-max-path?   int32
|    |    +--rw table-map {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    | +--rw config!
|    |    | | +--rw map-name            string {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    | | +--rw table-map-filter?   boolean {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    | +--ro state
|    |    |    +--ro map-name            string {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    |    +--ro table-map-filter?   boolean {feature-list:HAVE_BGP_TABLE_MAP}?
|    |    +--rw route-flap-dampenings
|    |    | +--rw route-flap-dampening* [enable-dampening]
```

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```
|    |    |    +--rw enable-dampening    -> ../config/enable-dampening
|    |    |    +--rw config
|    |    |    | +--rw enable-dampening?      ipi-bgp-types:bgp_dampening_t
|    |    |    | +--rw reach-half-life?       uint32
|    |    |    | +--rw reuse-penalty?         uint32
|    |    |    | +--rw suppress-penalty?      uint32
|    |    |    | +--rw max-suppress-time?     uint32
|    |    |    | +--rw unreach-half-life?     uint32
|    |    |    | +--rw dampening-rmap-name?   string
|    |    |    +--ro state
|    |    |      +--ro enable-dampening?      ipi-bgp-types:bgp_dampening_t
|    |    |      +--ro reach-half-life?       uint32
|    |    |      +--ro reuse-penalty?         uint32
|    |    |      +--ro suppress-penalty?      uint32
|    |    |      +--ro max-suppress-time?     uint32
|    |    |      +--ro unreach-half-life?     uint32
|    |    |      +--ro dampening-rmap-name?   string
|    |    +--rw route-redistribute-lists
|    |    | +--rw route-redistribute-list* [protocol-type]
|    |    |    +--rw protocol-type    -> ../config/protocol-type
|    |    |    +--rw config
|    |    |    | +--rw protocol-type?          ipi-bgp-types:bgp_redistribute_type_t
|    |    |    | +--rw redist-route-map-name    string
|    |    |    +--ro state
|    |    |      +--ro protocol-type?          ipi-bgp-types:bgp_redistribute_type_t
|    |    |      +--ro redist-route-map-name    string
|    |    +--rw bgp-srv6 {feature-list:HAVE_SRV6}?
|    |    | +--rw config!
|    |    | | +--rw bgpSRv6enable    empty
|    |    | +--ro state
|    |    | | +--ro bgpSRv6enable    empty
|    |    | +--rw sid-alloc-mode
|    |    |    +--rw config
|    |    |    | +--rw sid-alloc-type?   ipi-bgp-types:bgp_sid_alloc_type_t
|    |    |    +--ro state
|    |    |      +--ro sid-alloc-type?   ipi-bgp-types:bgp_sid_alloc_type_t
```


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```
|    |    +--rw bgp-redistribute-ospfs
|    |    |  +--rw bgp-redistribute-ospf* [ospf-instance-number]
|    |    |     +--rw ospf-instance-number    -> ../config/ospf-instance-number
|    |    |     +--rw config
|    |    |     |  +--rw ospf-instance-number?          ipi-bgp-types:cml_ospf_area_id_t
|    |    |     |  +--rw redistribute-ospf-route-map?   string
|    |    |     +--ro state
|    |    |        +--ro ospf-instance-number?          ipi-bgp-types:cml_ospf_area_id_t
|    |    |        +--ro redistribute-ospf-route-map?   string
|    |    +--rw vrf-peers
|    |    |  +--rw vrf-peer* [peer-address]
|    |    |     +--rw peer-address              -> ../config/peer-address
|    |    |     +--ro peer-adj-out-route* [network-address]
|    |    |     |  +--ro network-address    -> ../state/network-address
|    |    |     |  +--ro next-hop* [next-hop-address]
|    |    |     |  |  +--ro next-hop-address    -> ../state/next-hop-address
|    |    |     |  |  +--ro state
|    |    |     |  |     +--ro next-hop-address?               ipi-bgp-types:bgp_hostname_t
|    |    |     |  |     +--ro peer-network-weight?            uint32
|    |    |     |  |     +--ro flap-time-reuse-list?           string
|    |    |     |  |     +--ro flap-record-duration?           string
|    |    |     |  |     +--ro damp-time-to-reuse?             string
|    |    |     |  |     +--ro bgp-med-value?                  uint32
|    |    |     |  |     +--ro bgp-as-path-string*             cml-data-types:cml_line_t
|    |    |     |  |     +--ro bgp-as-path-4-byte-string*      string
|    |    |     |  |     +--ro bgp-as-path-4-byte-origin?      ipi-bgp-types:bgp_origin_t
|    |    |     |  |     +--ro ibgp-metric-route?              int32
|    |    |     |  |     +--ro aggregate-as-route?             int32
|    |    |     |  |     +--ro aggregator-address-route?       ipi-bgp-types:bgp_hostname_t
|    |    |     |  |     +--ro network-remote-address-route?   ipi-bgp-types:bgp_hostname_t
|    |    |     |  |     +--ro originator-id-route?            ipi-bgp-types:bgp_hostname_t
|    |    |     |  |     +--ro route-peer-address?             ipi-bgp-types:bgp_hostname_t
|    |    |     |  |     +--ro route-local-preference?         uint32
|    |    |     |  |     +--ro route-prefix-label?             uint32
|    |    |     |  |     +--ro route-community-string?         cml-data-types:cml_line_t
|    |    |     |  |     +--ro cluster-list-route*             ipi-bgp-types:bgp_hostname_t
```

```
   |   |   |   | |    +--ro route-penalty?                 int32
   |   |   |   | |    +--ro route-flap-count?              int32
   |   |   |   | |    +--ro last-update-route?             yang:date-and-time
   |   |   |   | |    +--ro reflector-client-route?        boolean
   |   |   |   | |    +--ro route-dampening-active?        boolean
   |   |   |   | |    +--ro history-route?                 boolean
   |   |   |   | |    +--ro nexthop-valid-route?           boolean
   |   |   |   | |    +--ro med-flag-type-route?           boolean
   |   |   |   | |    +--ro valid-route?                   boolean
   |   |   |   | |    +--ro stale-route?                   boolean
   |   |   |   | |    +--ro route-type?                    ipi-bgp-types:bgp_ri_type_t
   |   |   |   | |    +--ro ecmp-multi-candidate-route?    boolean
   |   |   |   | |    +--ro multi-installed-route?         boolean
   |   |   |   | |    +--ro route-synchronized-flag-route? boolean
   |   |   |   | |    +--ro atomic-aggregate-route?        boolean
   |   |   |   | |    +--ro selected-route?                boolean
   |   |   |   | |    +--ro bgp-tx-path-id?                int16 {feature-list:HAVE_BGP_ADD_PATH}?
   |   |   |   | |    +--ro bgp-rx-path-id?                int16 {feature-list:HAVE_BGP_ADD_PATH}?
   |   |   |   | |    +--ro ipv4-multicast-capability?     string
   |   |   |   | |    +--ro vpnv4-unicast-capability?      string
   |   |   |   | |    +--ro rtfilter-unicast-capability?   string
   |   |   |   | |    +--ro l2vpn-evpn-capability?         string
   |   |   |   | |    +--ro ipv6-unicast-capability?       string
   |   |   |   | |    +--ro ipv6-multicast-capability?     string
   |   |   |   | |    +--ro ipv6-label-unicast-capability? string
   |   |   |   | |    +--ro in-label?                      uint32 {feature-list:HAVE_BGP_LU}?
   |   |   |   | |    +--ro out-label?                     uint32 {feature-list:HAVE_BGP_LU}?
   |   |   |   | |    +--ro as-origin-validation-state?    ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
   |   |   |   | +--ro state
   |   |   |   |    +--ro network-address?   ipi-bgp-types:bgp_ip_network_t
   |   |   |   +--ro peer-adj-in-route* [network-address]
   |   |   |   | +--ro network-address    -> ../state/network-address
   |   |   |   | +--ro next-hop* [next-hop-address]
   |   |   |   | | +--ro next-hop-address    -> ../state/next-hop-address
   |   |   |   | | +--ro state
   |   |   |   | |    +--ro next-hop-address?              ipi-bgp-types:bgp_hostname_t
```


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```
|   |   |   | |   +--ro peer-network-weight?            uint32
|   |   |   | |   +--ro flap-time-reuse-list?           string
|   |   |   | |   +--ro flap-record-duration?           string
|   |   |   | |   +--ro damp-time-to-reuse?             string
|   |   |   | |   +--ro bgp-med-value?                  uint32
|   |   |   | |   +--ro bgp-as-path-string*             cml-data-types:cml_line_t
|   |   |   | |   +--ro bgp-as-path-4-byte-string*      string
|   |   |   | |   +--ro bgp-as-path-4-byte-origin?      ipi-bgp-types:bgp_origin_t
|   |   |   | |   +--ro ibgp-metric-route?              int32
|   |   |   | |   +--ro aggregate-as-route?             int32
|   |   |   | |   +--ro aggregator-address-route?       ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro network-remote-address-route?   ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro originator-id-route?            ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro route-peer-address?             ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro route-local-preference?         uint32
|   |   |   | |   +--ro route-prefix-label?             uint32
|   |   |   | |   +--ro route-community-string?         cml-data-types:cml_line_t
|   |   |   | |   +--ro cluster-list-route*             ipi-bgp-types:bgp_hostname_t
|   |   |   | |   +--ro route-penalty?                  int32
|   |   |   | |   +--ro route-flap-count?               int32
|   |   |   | |   +--ro last-update-route?              yang:date-and-time
|   |   |   | |   +--ro reflector-client-route?         boolean
|   |   |   | |   +--ro route-dampening-active?         boolean
|   |   |   | |   +--ro history-route?                  boolean
|   |   |   | |   +--ro nexthop-valid-route?            boolean
|   |   |   | |   +--ro med-flag-type-route?            boolean
|   |   |   | |   +--ro valid-route?                    boolean
|   |   |   | |   +--ro stale-route?                    boolean
|   |   |   | |   +--ro route-type?                     ipi-bgp-types:bgp_ri_type_t
|   |   |   | |   +--ro ecmp-multi-candidate-route?     boolean
|   |   |   | |   +--ro multi-installed-route?          boolean
|   |   |   | |   +--ro route-synchronized-flag-route?  boolean
|   |   |   | |   +--ro atomic-aggregate-route?         boolean
|   |   |   | |   +--ro selected-route?                 boolean
|   |   |   | |   +--ro bgp-tx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
|   |   |   | |   +--ro bgp-rx-path-id?                 int16 {feature-list:HAVE_BGP_ADD_PATH}?
```

```
   |   |   |   | |    +--ro ipv4-multicast-capability?       string
   |   |   |   | |    +--ro vpnv4-unicast-capability?        string
   |   |   |   | |    +--ro rtfilter-unicast-capability?     string
   |   |   |   | |    +--ro l2vpn-evpn-capability?           string
   |   |   |   | |    +--ro ipv6-unicast-capability?         string
   |   |   |   | |    +--ro ipv6-multicast-capability?       string
   |   |   |   | |    +--ro ipv6-label-unicast-capability?   string
   |   |   |   | |    +--ro in-label?                        uint32 {feature-list:HAVE_BGP_LU}?
   |   |   |   | |    +--ro out-label?                       uint32 {feature-list:HAVE_BGP_LU}?
   |   |   |   | |    +--ro as-origin-validation-state?      ipi-bgp-types:bgp_rpki_o_as_validation_state {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
   |   |   |   | +--ro state
   |   |   |   |    +--ro network-address?   ipi-bgp-types:bgp_ip_network_t
   |   |   |   +--rw config
   |   |   |   | +--rw peer-address?                       inet:ip-address
   |   |   |   | +--rw peer-as?                            uint32
   |   |   |   | +--rw source-identifier?                  string
   |   |   |   | +--rw bgp-version?                        uint8
   |   |   |   | +--rw peer-connection-interval?           uint32
   |   |   |   | +--rw enforce-multihop?                   empty
   |   |   |   | +--rw peer-shutdown?                      empty
   |   |   |   | +--rw peer-shutdown-description?          cml-data-types:cml_line_t
   |   |   |   | +--rw neighbor-passive?                   empty
   |   |   |   | +--rw enable-dynamic-capability?          empty
   |   |   |   | +--rw min-route-advertisement-interval?   uint32
   |   |   |   | +--rw peer-as-origin-interval?            uint32
   |   |   |   | +--rw neighbor-as-override?               empty
   |   |   |   | +--rw peer-interface-name?                string {feature-list:HAVE_VRF}?
   |   |   |   | +--rw peer-description?                   cml-data-types:cml_line_t
   |   |   |   | +--rw peer-restart-time?                  uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
   |   |   |   | +--rw graceful-shut?                      empty
   |   |   |   | +--rw graceful-shut-timer?                uint32
   |   |   |   | +--rw enable-peer-bfd?                    empty {feature-list:HAVE_BFD}?
   |   |   |   | +--rw enable-peer-bfd-multihop?           empty {feature-list:HAVE_BFD}?
   |   |   |   | +--rw bgp-port?                           uint16
   |   |   |   | +--rw activate?                           empty
   |   |   |   | +--rw de-activate?                        empty
```


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```
|  |  |  | +--rw default-peer-route-map-name?          empty
|  |  |  | +--rw peer-route-map-orig-name?             string
|  |  |  | +--rw weight?                               uint16
|  |  |  | +--rw flowspec-validation-disable?          empty {feature-list:HAVE_BGP_FLOWSPEC}?
|  |  |  | +--rw peer-route-reflector?                 empty
|  |  |  | +--rw peer-remove-private-as?               empty
|  |  |  | +--rw no-send-community?                    empty
|  |  |  | +--rw no-send-community-type?               ipi-bgp-types:bgp_send_commu_type_t
|  |  |  | +--rw neighbor-attribute-unchanged?         ipi-bgp-types:bgp_attribute_unchanged_type_t
|  |  |  | +--rw orf-prefix-capability?                ipi-bgp-types:bgp_orf_prefix_type_t
|  |  |  | +--rw peer-allow-ebgp-vpn?                  empty {feature-list:HAVE_VRF}?
|  |  |  | +--rw allow-as-number?                      uint32
|  |  |  | +--rw capability-graceful-restart?          empty
|  |  |  | +--rw mapped-peer-group-tag-af?             string
|  |  |  | +--rw unsuppress-route-map-name?            string
|  |  |  | +--rw enable-ext-opt-param-len?             empty
|  |  |  | +--rw additional-paths-mode?                ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |  |  | +--rw additional-path-select-all?           empty {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  | +--rw additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  | +--rw tcp-adjust-mss?                       uint16
|  |  |  | +--rw site-origin-identifier?               string {feature-list:HAVE_VRF}?
|  |  |  +--ro state
|  |  |  | +--ro counters
|  |  |  | |  +--ro keepalive-in-messages?           int32
|  |  |  | |  +--ro keepalive-out-messages?          int32
|  |  |  | |  +--ro open-messages-in?                int32
|  |  |  | |  +--ro open-messages-out?               int32
|  |  |  | |  +--ro as-path-count?                   int32
|  |  |  | |  +--ro as-path-extended-count?          int32
|  |  |  | |  +--ro received-packet-count?           int32
|  |  |  | |  +--ro packet-in-queue?                 int32
|  |  |  | |  +--ro packet-out-queue?                int32
|  |  |  | |  +--ro sent-packet-count?               int32
|  |  |  | |  +--ro refresh-received-packet-count?   int32
|  |  |  | |  +--ro refresh-sent-packet-count?       int32
|  |  |  | |  +--ro notification-in?                 int32
```

```
|   |   |   | | +--ro notification-out?              int32
|   |   |   | | +--ro update-message-in?             int32
|   |   |   | | +--ro update-message-out?            int32
|   |   |   | +--ro peer-address?                    inet:ip-address
|   |   |   | +--ro peer-as?                         uint32
|   |   |   | +--ro source-identifier?               string
|   |   |   | +--ro bgp-version?                     uint8
|   |   |   | +--ro peer-connection-interval?            uint32
|   |   |   | +--ro enforce-multihop?                empty
|   |   |   | +--ro peer-shutdown?                   empty
|   |   |   | +--ro peer-shutdown-description?           cml-data-types:cml_line_t
|   |   |   | +--ro neighbor-passive?                empty
|   |   |   | +--ro enable-dynamic-capability?           empty
|   |   |   | +--ro min-route-advertisement-interval?      uint32
|   |   |   | +--ro peer-as-origin-interval?             uint32
|   |   |   | +--ro neighbor-as-override?                empty
|   |   |   | +--ro peer-interface-name?                 string {feature-list:HAVE_VRF}?
|   |   |   | +--ro peer-description?                cml-data-types:cml_line_t
|   |   |   | +--ro peer-restart-time?               uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
|   |   |   | +--ro graceful-shut?                   empty
|   |   |   | +--ro graceful-shut-timer?             uint32
|   |   |   | +--ro enable-peer-bfd?                 empty {feature-list:HAVE_BFD}?
|   |   |   | +--ro enable-peer-bfd-multihop?            empty {feature-list:HAVE_BFD}?
|   |   |   | +--ro bgp-port?                        uint16
|   |   |   | +--ro activate?                        empty
|   |   |   | +--ro de-activate?                     empty
|   |   |   | +--ro default-peer-route-map-name?         empty
|   |   |   | +--ro peer-route-map-orig-name?            string
|   |   |   | +--ro weight?                          uint16
|   |   |   | +--ro flowspec-validation-disable?         empty {feature-list:HAVE_BGP_FLOWSPEC}?
|   |   |   | +--ro peer-route-reflector?            empty
|   |   |   | +--ro peer-remove-private-as?              empty
|   |   |   | +--ro no-send-community?               empty
|   |   |   | +--ro no-send-community-type?              ipi-bgp-types:bgp_send_commu_type_t
|   |   |   | +--ro neighbor-attribute-unchanged?        ipi-bgp-types:bgp_attribute_unchanged_type_t
|   |   |   | +--ro orf-prefix-capability?           ipi-bgp-types:bgp_orf_prefix_type_t
```


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```
|  |  |  | +--ro peer-allow-ebgp-vpn?                empty {feature-list:HAVE_VRF}?
|  |  |  | +--ro allow-as-number?                    uint32
|  |  |  | +--ro capability-graceful-restart?        empty
|  |  |  | +--ro mapped-peer-group-tag-af?           string
|  |  |  | +--ro unsuppress-route-map-name?          string
|  |  |  | +--ro enable-ext-opt-param-len?           empty
|  |  |  | +--ro additional-paths-mode?              ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |  |  | +--ro additional-path-select-all?         empty {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  | +--ro additional-paths-best-select-count? uint8 {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  | +--ro tcp-adjust-mss?                     uint16
|  |  |  | +--ro site-origin-identifier?             string {feature-list:HAVE_VRF}?
|  |  |  | +--ro connection-established-count?       int32
|  |  |  | +--ro error-notify-sent?                  boolean
|  |  |  | +--ro notify-code-string?                 cml-data-types:cml_line_t
|  |  |  | +--ro bgp-peer-state?                     ipi-bgp-types:bgp_peer_status_t
|  |  |  | +--ro dynamic-peer-address?               ipi-bgp-types:bgp_ip_addr_t
|  |  |  | +--ro max-paths-ibgp?                     int16
|  |  |  | +--ro configured-max-paths-ebgp?          int16
|  |  |  | +--ro max-paths-ebgp?                     int16
|  |  |  | +--ro configured-max-paths-ibgp?          int16
|  |  |  | +--ro max-paths-eibgp?                    int16
|  |  |  | +--ro configured-max-paths-eibgp?         int16
|  |  |  | +--ro community-count?                    int32
|  |  |  | +--ro confederation-id-check?             boolean
|  |  |  | +--ro peer-and-extended-asn-capability?   ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  | +--ro address-family-capability?          ipi-bgp-types:bgp_adv_rcv_type_t
|  |  |  | +--ro ipv6-next-hop-global?               inet:ipv6-address
|  |  |  | +--ro ipv6-next-hop-local?                inet:ipv6-address
|  |  |  | +--ro remote-port?                        int32
|  |  |  | +--ro remote-address?                     ipi-bgp-types:bgp_hostname_t
|  |  |  | +--ro local-host?                         ipi-bgp-types:bgp_hostname_t
|  |  |  | +--ro ipv4-next-hop?                      inet:ipv4-address
|  |  |  | +--ro local-port?                         int32
|  |  |  | +--ro default-information-originate?      boolean
|  |  |  | +--ro inbound-path-policy?                boolean
|  |  |  | +--ro outbound-path-policy?               boolean
```

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```
   |  |  |  | +--ro default-originate-information-sent?     cml-data-types:cml_line_t
   |  |  |  | +--ro graceful-restart?                       ipi-bgp-types:bgp_adv_rcv_type_t
   |  |  |  | +--ro address-family-dependent-capability?    boolean
   |  |  |  | +--ro peer-address-family-table-version?      int32
   |  |  |  | +--ro address-family-table-version?           int32
   |  |  |  | +--ro forward-status-preserve?                string
   |  |  |  | +--ro orf-type-prefix?                        cml-data-types:cml_line_t
   |  |  |  | +--ro orf-type-prefix-send-mode?              ipi-bgp-types:bgp_adv_rcv_type_t
   |  |  |  | +--ro orf-type-prefix-receive-mode?           ipi-bgp-types:bgp_adv_rcv_type_t
   |  |  |  | +--ro orf-type-prefix-old?                    cml-data-types:cml_line_t
   |  |  |  | +--ro orf-type-prefix-send-mode-old?          ipi-bgp-types:bgp_adv_rcv_type_t
   |  |  |  | +--ro orf-type-prefix-receive-mode-old?       ipi-bgp-types:bgp_adv_rcv_type_t
   |  |  |  | +--ro prefix-count?                           int32
   |  |  |  | +--ro send-prefix-count?                      int32
   |  |  |  | +--ro flag-shut-down?                         ipi-bgp-types:bgp_peerflag_shutdown_t
   |  |  |  | +--ro count?                                  int32
   |  |  |  | +--ro notify-info?                            boolean
   |  |  |  | +--ro notify-last-reset-time?                 string
   |  |  |  | +--ro connection-type?                        ipi-bgp-types:bgp_connection_type_t
   |  |  |  | +--ro next-connection-timer?                  int32
   |  |  |  | +--ro connection-dropped-count?               int32
   |  |  |  | +--ro graceful-restart-status?                string
   |  |  |  | +--ro graceful-restart-time?                  int32
   |  |  |  | +--ro bgp-established-up-time?                string
   |  |  |  | +--ro last-read-time?                         string
   |  |  |  | +--ro link-type?                              ipi-bgp-types:bgp_link_type_t
   |  |  |  | +--ro ebgp-hop-away-count?                    int32
   |  |  |  | +--ro router-id?                              inet:ipv4-address
   |  |  |  | +--ro advertisement-interval?                 int32
   |  |  |  | +--ro calculated-hold-time?                   int32
   |  |  |  | +--ro calculated-keepalive?                   int32
   |  |  |  | +--ro dynamic-capability?                     cml-data-types:cml_line_t
   |  |  |  | +--ro route-refresh-capability?               ipi-bgp-types:bgp_route_refresh_cap_type_t
   |  |  |  | +--ro no-interface-binding?                   boolean
   |  |  |  | +--ro additional-path-receive-capability?     ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
```


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```
    |    |    |    | +--ro additional-path-send-capability?        ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
    |    |    |    | +--ro capability-ipv4-unicast?               ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-label-unicast?              ipi-bgp-types:bgp_capability_type_t {feature-
list:HAVE_BGP_LU}?
    |    |    |    | +--ro capability-ipv4-multicast?             ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-vpnv4-unicast?              ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-vpnv6-unicast?              ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-rtfilter-unicast?           ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-l2vpn-evpn?                 ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-ipv6-unicast?               ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-ipv6-multicast?             ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro capability-ipv6-label-unicast?         ipi-bgp-types:bgp_capability_type_t
    |    |    |    | +--ro evpn-ad-route-count?                   uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-mac-ip-route-count?               uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-inclusive-multicast-route-count?  uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-segment-route-count?              uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    | +--ro evpn-ip-prefix-route-count?            uint32 {feature-list:HAVE_BGP_EVPN}?
    |    |    |    +--rw timers
    |    |    |    | +--rw config!
    |    |    |    | | +--rw keep-alive    uint16
    |    |    |    | | +--rw hold-time     uint16
    |    |    |    | +--ro state
    |    |    |    |    +--ro keep-alive    uint16
    |    |    |    |    +--ro hold-time     uint16
    |    |    |    +--rw ebgp-multihop
    |    |    |    | +--rw config!
    |    |    |    | | +--rw maximum-hop-count?   uint8
    |    |    |    | | +--rw enabled              empty
    |    |    |    | +--ro state
    |    |    |    |    +--ro maximum-hop-count?   uint8
    |    |    |    |    +--ro enabled              empty
    |    |    |    +--rw maximum-prefixes
    |    |    |    | +--rw maximum-prefix* [prefix-count]
    |    |    |    |    +--rw prefix-count    -> ../config/prefix-count
    |    |    |    |    +--rw config
    |    |    |    |    | +--rw prefix-count?            uint32
```

```
|   |   |   |   | +--rw stop-update?              empty
|   |   |   |   | +--rw maximum-prefix-warning?   empty
|   |   |   |   | +--rw threshold-percentage?     uint8
|   |   |   |   | +--rw warning-only?             empty
|   |   |   |   +--ro state
|   |   |   |     +--ro prefix-count?             uint32
|   |   |   |     +--ro stop-update?              empty
|   |   |   |     +--ro maximum-prefix-warning?   empty
|   |   |   |     +--ro threshold-percentage?     uint8
|   |   |   |     +--ro warning-only?             empty
|   |   |   +--rw bgp-passwords
|   |   |   | +--rw bgp-password* [password]
|   |   |   |   +--rw password    -> ../config/password
|   |   |   |   +--rw config
|   |   |   |   | +--rw password?           ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|   |   |   |   | +--rw auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|   |   |   |   +--ro state
|   |   |   |     +--ro password?           ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|   |   |   |     +--ro auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|   |   |   +--rw distribute-list-filters
|   |   |   | +--rw distribute-list-filter* [filter-direction]
|   |   |   |   +--rw filter-direction    -> ../config/filter-direction
|   |   |   |   +--rw config
|   |   |   |   | +--rw access-list-identifier    string
|   |   |   |   | +--rw filter-direction?         ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   |   +--ro state
|   |   |   |     +--ro access-list-identifier    string
|   |   |   |     +--ro filter-direction?         ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   +--rw as-list-filters
|   |   |   | +--rw as-list-filter* [as-list-direction]
|   |   |   |   +--rw as-list-direction    -> ../config/as-list-direction
|   |   |   |   +--rw config
|   |   |   |   | +--rw as-access-list-identifier    string
|   |   |   |   | +--rw as-list-direction?           ipi-bgp-types:bgp_distribute_list_direction_t
|   |   |   |   +--ro state
|   |   |   |     +--ro as-access-list-identifier    string
```


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```
|    |    |    |       +--ro as-list-direction?          ipi-bgp-types:bgp_distribute_list_direction_t
|    |    |    +--rw prefix-list-filters
|    |    |    | +--rw prefix-list-filter* [prefix-filter-direction]
|    |    |    |    +--rw prefix-filter-direction    -> ../config/prefix-filter-direction
|    |    |    |    +--rw config
|    |    |    |    | +--rw prefix-list-name          string
|    |    |    |    | +--rw prefix-filter-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|    |    |    |    +--ro state
|    |    |    |       +--ro prefix-list-name          string
|    |    |    |       +--ro prefix-filter-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|    |    |    +--rw route-map-filters
|    |    |    | +--rw route-map-filter* [route-map-direction]
|    |    |    |    +--rw route-map-direction    -> ../config/route-map-direction
|    |    |    |    +--rw config
|    |    |    |    | +--rw route-map-name         string
|    |    |    |    | +--rw route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|    |    |    |    +--ro state
|    |    |    |       +--ro route-map-name         string
|    |    |    |       +--ro route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|    |    |    +--rw local-as
|    |    |    | +--rw local-as-list* [peer-local-as]
|    |    |    |    +--rw peer-local-as    -> ../config/peer-local-as
|    |    |    |    +--rw config
|    |    |    |    | +--rw peer-local-as?         uint32
|    |    |    |    | +--rw no-prepend-local-as?   empty
|    |    |    |    | +--rw replace-local-as?      empty
|    |    |    |    +--ro state
|    |    |    |       +--ro peer-local-as?         uint32
|    |    |    |       +--ro no-prepend-local-as?   empty
|    |    |    |       +--ro replace-local-as?      empty
|    |    |    +--ro outbound-route-filter
|    |    |    | +--ro state
|    |    |    |    +--ro orf-prefix-string?   boolean
|    |    |    |    +--ro orf-prefix-send?     string
|    |    |    |    +--ro orf-prefix-count?    string
|    |    |    |    +--ro orf-wait-refresh?    boolean
```

```
|  |  |  +--ro peer-prefix
|  |  |  | +--ro state
|  |  |  |  +--ro entry-sequence?     int32
|  |  |  |  +--ro entry-type?         ipi-bgp-types:bgp_prefix_entry_type_t
|  |  |  |  +--ro entry-max-length?   int32
|  |  |  |  +--ro entry-min-length?   int32
|  |  |  |  +--ro prefix-length?      int32
|  |  |  +--ro peer-index
|  |  |     +--ro state
|  |  |        +--ro peer-index?   int32
|  |  |        +--ro offset?       int32
|  |  |        +--ro mask?         string
|  |  +--rw network-lists
|  |  | +--rw network-list* [local-network-prefix]
|  |  |  +--rw local-network-prefix    -> ../config/local-network-prefix
|  |  |  +--rw config
|  |  |  | +--rw local-network-prefix?   ipi-bgp-types:bgp_ip_network_t
|  |  |  | +--rw network-rmap-name?      string
|  |  |  | +--rw backdoor?               empty
|  |  |  +--ro state
|  |  |     +--ro local-network-prefix?              ipi-bgp-types:bgp_ip_network_t
|  |  |     +--ro network-rmap-name?                 string
|  |  |     +--ro backdoor?                          empty
|  |  |     +--ro network-path-route-count?          int32
|  |  |     +--ro no-advertise-route?                string
|  |  |     +--ro no-export-route?                   boolean
|  |  |     +--ro local-as-route?                    boolean
|  |  |     +--ro suppress-route?                    boolean
|  |  |     +--ro network-best-path-route-count?     int32
|  |  |     +--ro ip-routing-table?                  string
|  |  |     +--ro advertised-non-peer-group-address*   ipi-bgp-types:bgp_hostname_t
|  |  |     +--ro advertised-peer-group-name-route*    string
|  |  |     +--ro advertised-any-peer?               boolean
|  |  |     +--ro route-distinguisher-string?        string {feature-list:HAVE_MPLS}?
|  |  +--rw as-origin {feature-list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
|  |  | +--rw config
```


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```
|    |    | | +--rw validation-enable?       empty
|    |    | | +--rw bestpath-use-validity?   empty
|    |    | | +--rw bestpath-allow-invalid?  empty
|    |    | +--ro state
|    |    |    +--ro validation-enable?       empty
|    |    |    +--ro bestpath-use-validity?   empty
|    |    |    +--ro bestpath-allow-invalid?  empty
|    |    +--rw peer-groups
|    |       +--rw peer-group* [peer-group-tag]
|    |          +--rw peer-group-tag            -> ../config/peer-group-tag
|    |          +--rw config
|    |          | +--rw peer-group-range                ipi-bgp-types:bgp_peer_group_type_t
|    |          | +--rw group-limit?                    uint16
|    |          | +--rw peer-group-tag?                 string
|    |          | +--rw peer-as?                        uint32
|    |          | +--rw source-identifier?              string
|    |          | +--rw bgp-version?                    uint8
|    |          | +--rw peer-connection-interval?       uint32
|    |          | +--rw enforce-multihop?               empty
|    |          | +--rw peer-shutdown?                  empty
|    |          | +--rw peer-shutdown-description?      cml-data-types:cml_line_t
|    |          | +--rw neighbor-passive?               empty
|    |          | +--rw connection-retry-interval?      int32
|    |          | +--rw enable-dynamic-capability?      empty
|    |          | +--rw min-route-advertisement-interval?  uint32
|    |          | +--rw peer-as-origin-interval?        uint32
|    |          | +--rw neighbor-as-override?           empty
|    |          | +--rw peer-description?               cml-data-types:cml_line_t
|    |          | +--rw peer-restart-time?              uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
|    |          | +--rw graceful-shut?                  empty
|    |          | +--rw graceful-shut-timer?            uint32
|    |          | +--rw enable-peer-bfd?                empty {feature-list:HAVE_BFD}?
|    |          | +--rw enable-peer-bfd-multihop?       empty {feature-list:HAVE_BFD}?
|    |          | +--rw enable-ext-opt-param-len?       empty
|    |          | +--rw tcp-adjust-mss?                 uint16
|    |          | +--rw bgp-port?                       uint16
```

```
   |   |       | +--rw activate?                        empty
   |   |       | +--rw default-peer-route-map-name?         empty
   |   |       | +--rw peer-route-map-orig-name?            string
   |   |       | +--rw weight?                          uint16
   |   |       | +--rw flowspec-validation-disable?         empty {feature-list:HAVE_BGP_FLOWSPEC}?
   |   |       | +--rw peer-route-reflector?                empty
   |   |       | +--rw peer-remove-private-as?              empty
   |   |       | +--rw no-send-community?                   empty
   |   |       | +--rw no-send-community-type?              ipi-bgp-types:bgp_send_commu_type_t
   |   |       | +--rw neighbor-attribute-unchanged?        ipi-bgp-types:bgp_attribute_unchanged_type_t
   |   |       | +--rw orf-prefix-capability?               ipi-bgp-types:bgp_orf_prefix_type_t
   |   |       | +--rw peer-allow-ebgp-vpn?                 empty {feature-list:HAVE_VRF}?
   |   |       | +--rw allow-as-number?                     uint32
   |   |       | +--rw capability-graceful-restart?         empty
   |   |       | +--rw unsuppress-route-map-name?           string
   |   |       | +--rw additional-paths-mode?               ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
   |   |       | +--rw additional-path-select-all?          empty {feature-list:HAVE_BGP_ADD_PATH}?
   |   |       | +--rw additional-paths-best-select-count?  uint8 {feature-list:HAVE_BGP_ADD_PATH}?
   |   |       | +--rw site-origin-identifier?              string {feature-list:HAVE_VRF}?
   |   |       +--ro state
   |   |       | +--ro peer-group-range                     ipi-bgp-types:bgp_peer_group_type_t
   |   |       | +--ro group-limit?                         uint16
   |   |       | +--ro peer-group-tag?                      string
   |   |       | +--ro peer-as?                             uint32
   |   |       | +--ro source-identifier?                   string
   |   |       | +--ro bgp-version?                         uint8
   |   |       | +--ro peer-connection-interval?            uint32
   |   |       | +--ro enforce-multihop?                    empty
   |   |       | +--ro peer-shutdown?                       empty
   |   |       | +--ro peer-shutdown-description?           cml-data-types:cml_line_t
   |   |       | +--ro neighbor-passive?                    empty
   |   |       | +--ro connection-retry-interval?           int32
   |   |       | +--ro enable-dynamic-capability?           empty
   |   |       | +--ro min-route-advertisement-interval?    uint32
   |   |       | +--ro peer-as-origin-interval?             uint32
   |   |       | +--ro neighbor-as-override?                empty
```


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```
|  |  |  +--ro peer-description?                  cml-data-types:cml_line_t
|  |  |  +--ro peer-restart-time?                 uint32 {feature-list:HAVE_RESTART,feature-list:HAVE_VRF}?
|  |  |  +--ro graceful-shut?                     empty
|  |  |  +--ro graceful-shut-timer?               uint32
|  |  |  +--ro enable-peer-bfd?                   empty {feature-list:HAVE_BFD}?
|  |  |  +--ro enable-peer-bfd-multihop?          empty {feature-list:HAVE_BFD}?
|  |  |  +--ro enable-ext-opt-param-len?          empty
|  |  |  +--ro tcp-adjust-mss?                    uint16
|  |  |  +--ro bgp-port?                          uint16
|  |  |  +--ro activate?                          empty
|  |  |  +--ro default-peer-route-map-name?       empty
|  |  |  +--ro peer-route-map-orig-name?          string
|  |  |  +--ro weight?                            uint16
|  |  |  +--ro flowspec-validation-disable?       empty {feature-list:HAVE_BGP_FLOWSPEC}?
|  |  |  +--ro peer-route-reflector?              empty
|  |  |  +--ro peer-remove-private-as?            empty
|  |  |  +--ro no-send-community?                 empty
|  |  |  +--ro no-send-community-type?            ipi-bgp-types:bgp_send_commu_type_t
|  |  |  +--ro neighbor-attribute-unchanged?      ipi-bgp-types:bgp_attribute_unchanged_type_t
|  |  |  +--ro orf-prefix-capability?             ipi-bgp-types:bgp_orf_prefix_type_t
|  |  |  +--ro peer-allow-ebgp-vpn?               empty {feature-list:HAVE_VRF}?
|  |  |  +--ro allow-as-number?                   uint32
|  |  |  +--ro capability-graceful-restart?       empty
|  |  |  +--ro unsuppress-route-map-name?         string
|  |  |  +--ro additional-paths-mode?             ipi-bgp-types:bgp_peer_additional_path_type_t {feature-
list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro additional-path-select-all?        empty {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro additional-paths-best-select-count?   uint8 {feature-list:HAVE_BGP_ADD_PATH}?
|  |  |  +--ro site-origin-identifier?            string {feature-list:HAVE_VRF}?
|  |  +--rw optional-as-lists
|  |  |  +--rw optional-as-list* [optional-as]
|  |  |     +--rw optional-as    -> ../config/optional-as
|  |  |     +--rw config
|  |  |     |  +--rw optional-as?   uint32
|  |  |     +--ro state
|  |  |        +--ro optional-as?   uint32
|  |  +--rw bgp-passwords
```

```
|   |       | +--rw bgp-password* [password]
|   |       |    +--rw password    -> ../config/password
|   |       |    +--rw config
|   |       |    | +--rw password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|   |       |    | +--rw auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|   |       |    +--ro state
|   |       |       +--ro password?          ipi-bgp-types:bgp_md5_password_t {feature-list:HAVE_TCP_MD5SIG}?
|   |       |       +--ro auth-key-encrypt    ipi-bgp-types:bgp_md5_t
|   |       +--rw timers
|   |       | +--rw config!
|   |       | | +--rw keep-alive    uint16
|   |       | | +--rw hold-time     uint16
|   |       | +--ro state
|   |       |    +--ro keep-alive    uint16
|   |       |    +--ro hold-time     uint16
|   |       +--rw local-as
|   |       | +--rw local-as-list* [peer-local-as]
|   |       |    +--rw peer-local-as    -> ../config/peer-local-as
|   |       |    +--rw config
|   |       |    | +--rw peer-local-as?         uint32
|   |       |    | +--rw no-prepend-local-as?   empty
|   |       |    | +--rw replace-local-as?      empty
|   |       |    +--ro state
|   |       |       +--ro peer-local-as?         uint32
|   |       |       +--ro no-prepend-local-as?   empty
|   |       |       +--ro replace-local-as?      empty
|   |       +--rw ebgp-multihop
|   |       | +--rw config!
|   |       | | +--rw maximum-hop-count?   uint8
|   |       | | +--rw enabled              empty
|   |       | +--ro state
|   |       |    +--ro maximum-hop-count?   uint8
|   |       |    +--ro enabled              empty
|   |       +--rw maximum-prefixes
|   |       | +--rw maximum-prefix* [prefix-count]
|   |       |    +--rw prefix-count    -> ../config/prefix-count
```


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```
|   |       |   +--rw config
|   |       |   | +--rw prefix-count?            uint32
|   |       |   | +--rw stop-update?             empty
|   |       |   | +--rw maximum-prefix-warning?  empty
|   |       |   | +--rw threshold-percentage?    uint8
|   |       |   | +--rw warning-only?            empty
|   |       |   +--ro state
|   |       |     +--ro prefix-count?            uint32
|   |       |     +--ro stop-update?             empty
|   |       |     +--ro maximum-prefix-warning?  empty
|   |       |     +--ro threshold-percentage?    uint8
|   |       |     +--ro warning-only?            empty
|   |       +--rw distribute-list-filters
|   |       | +--rw distribute-list-filter* [filter-direction]
|   |       |   +--rw filter-direction    -> ../config/filter-direction
|   |       |   +--rw config
|   |       |   | +--rw access-list-identifier    string
|   |       |   | +--rw filter-direction?         ipi-bgp-types:bgp_distribute_list_direction_t
|   |       |   +--ro state
|   |       |     +--ro access-list-identifier    string
|   |       |     +--ro filter-direction?         ipi-bgp-types:bgp_distribute_list_direction_t
|   |       +--rw as-list-filters
|   |       | +--rw as-list-filter* [as-list-direction]
|   |       |   +--rw as-list-direction    -> ../config/as-list-direction
|   |       |   +--rw config
|   |       |   | +--rw as-access-list-identifier    string
|   |       |   | +--rw as-list-direction?           ipi-bgp-types:bgp_distribute_list_direction_t
|   |       |   +--ro state
|   |       |     +--ro as-access-list-identifier    string
|   |       |     +--ro as-list-direction?           ipi-bgp-types:bgp_distribute_list_direction_t
|   |       +--rw prefix-list-filters
|   |       | +--rw prefix-list-filter* [prefix-filter-direction]
|   |       |   +--rw prefix-filter-direction    -> ../config/prefix-filter-direction
|   |       |   +--rw config
|   |       |   | +--rw prefix-list-name           string
|   |       |   | +--rw prefix-filter-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
```

```
|    |          |    +--ro state
|    |          |       +--ro prefix-list-name           string
|    |          |       +--ro prefix-filter-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|    |          +--rw route-map-filters
|    |             +--rw route-map-filter* [route-map-direction]
|    |                +--rw route-map-direction    -> ../config/route-map-direction
|    |                +--rw config
|    |                | +--rw route-map-name         string
|    |                | +--rw route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|    |                +--ro state
|    |                   +--ro route-map-name         string
|    |                   +--ro route-map-direction?   ipi-bgp-types:bgp_distribute_list_direction_t
|    +--rw peer-engineering
|    | +--rw config
|    | | +--rw enable-epe?   empty
|    | +--ro state
|    |    +--ro enable-epe?   empty
|    +--rw rpki
|       +--rw servers
|       | +--rw server* [server-address]
|       |    +--rw server-address    -> ../config/server-address
|       |    +--rw config
|       |    | +--rw server-address?         ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
|       |    | +--rw server-protocol-type?   ipi-bgp-rpki-types:bgp_rpki_server_protocol_t
|       |    | +--rw port?                   uint16
|       |    | +--rw user?                   string
|       |    | +--rw password?               ipi-bgp-types:bgp_md5_password_t
|       |    | +--rw auth-key-encrypt?       ipi-bgp-types:bgp_md5_t
|       |    | +--rw refresh-interval?       uint32
|       |    | +--rw retry-interval?         uint32
|       |    | +--rw expire-interval?        uint32
|       |    +--ro state
|       |       +--ro server-address?                ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
|       |       +--ro server-protocol-type?          ipi-bgp-rpki-types:bgp_rpki_server_protocol_t
|       |       +--ro port?                          uint16
|       |       +--ro user?                          string
```


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```
|       |       +--ro password?                              ipi-bgp-types:bgp_md5_password_t
|       |       +--ro auth-key-encrypt?                      ipi-bgp-types:bgp_md5_t
|       |       +--ro refresh-interval?                      uint32
|       |       +--ro retry-interval?                        uint32
|       |       +--ro expire-interval?                       uint32
|       |       +--ro route-to-route-version?                uint8
|       |       +--ro route-to-route-client-state?           ipi-bgp-rpki-types:bgp_rpki_rtr_client_state
|       |       +--ro route-to-route-sockets-sync?           boolean
|       |       +--ro rpki-uptime?                           yang:timeticks
|       |       +--ro ipv4-route-origin-authorizations-count?  uint32
|       |       +--ro ipv6-route-origin-authorizations-count?  uint32
|       |       +--ro actual-refresh-interval?               uint32
|       |       +--ro actual-retry-interval?                 uint32
|       |       +--ro actual-expire-interval?                uint32
|       |       +--ro rest-of-time-to-refresh-interval-expiration?  uint32
|       |       +--ro rest-of-time-to-expire-interval-expiration?   uint32
|       |       +--ro client-session-to-be-deleted?          boolean
|       +--ro tables-ipv4
|       |  +--ro table-ipv4* [prefix-ipv4 max-length as-number server-address]
|       |     +--ro prefix-ipv4       -> ../state/prefix-ipv4
|       |     +--ro max-length        -> ../state/max-length
|       |     +--ro as-number         -> ../state/as-number
|       |     +--ro server-address    -> ../state/server-address
|       |     +--ro state
|       |        +--ro prefix-ipv4?      cml-data-types:cml_ipv4_prefix_t
|       |        +--ro max-length?       uint8
|       |        +--ro as-number?        uint32
|       |        +--ro server-address?   ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
|       +--ro tables-ipv6
|          +--ro table-ipv6* [prefix-ipv6 max-length as-number server-address]
|             +--ro prefix-ipv6       -> ../state/prefix-ipv6
|             +--ro max-length        -> ../state/max-length
|             +--ro as-number         -> ../state/as-number
|             +--ro server-address    -> ../state/server-address
|             +--ro state
|                +--ro prefix-ipv6?      cml-data-types:cml_ipv6_prefix_t
```

```
|              +--ro max-length?       uint8
|              +--ro as-number?        uint32
|              +--ro server-address?   ipi-bgp-rpki-types:bgp_rpki_server_ip_addr_t
+--rw flowspec
  +--rw controllers
    +--rw controller* [enable-flowspec-controller]
      +--rw enable-flowspec-controller    -> ../config/enable-flowspec-controller
      +--rw config
      | +--rw enable-flowspec-controller?   empty
      | +--rw local-install?                ipi-bgp-flowspec-types:flowspec_local_install_t
      +--ro state
      | +--ro enable-flowspec-controller?   empty
      | +--ro local-install?                ipi-bgp-flowspec-types:flowspec_local_install_t
      +--rw address-families
      | +--rw address-family* [afi-type]
      |    +--rw afi-type            -> ../config/afi-type
      |    +--rw config
      |    | +--rw afi-type?        ipi-bgp-flowspec-types:flowspec_afi_type_t
      |    | +--rw local-install?   ipi-bgp-flowspec-types:flowspec_local_install_t
      |    +--ro state
      |    | +--ro afi-type?        ipi-bgp-flowspec-types:flowspec_afi_type_t
      |    | +--ro local-install?   ipi-bgp-flowspec-types:flowspec_local_install_t
      |    +--rw service-policies
      |       +--rw service-policy* [attached-policy-map-name service-policy-type]
      |          +--rw attached-policy-map-name    -> ../config/attached-policy-map-name
      |          +--rw service-policy-type         -> ../config/service-policy-type
      |          +--rw config
      |          | +--rw attached-policy-map-name?   string
      |          | +--rw service-policy-type?        ipi-enhanced-pbr-types:epbr_policy_map_t
      |          +--ro state
      |            +--ro attached-policy-map-name?   string
      |            +--ro service-policy-type?        ipi-enhanced-pbr-types:epbr_policy_map_t
      +--rw vrfs
        +--rw vrf* [vrf-name]
          +--rw vrf-name            -> ../config/vrf-name
          +--rw config
```


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```
        |  +--rw vrf-name?        string
        |  +--rw local-install?   ipi-bgp-flowspec-types:flowspec_local_install_t
        +--ro state
        |  +--ro vrf-name?        string
        |  +--ro local-install?   ipi-bgp-flowspec-types:flowspec_local_install_t
        +--rw address-families
          +--rw address-family* [afi-type]
            +--rw afi-type            -> ../config/afi-type
            +--rw config
            |  +--rw afi-type?        ipi-bgp-flowspec-types:flowspec_afi_type_t
            |  +--rw local-install?   ipi-bgp-flowspec-types:flowspec_local_install_t
            +--ro state
            |  +--ro afi-type?        ipi-bgp-flowspec-types:flowspec_afi_type_t
            |  +--ro local-install?   ipi-bgp-flowspec-types:flowspec_local_install_t
            +--rw service-policies
              +--rw service-policy* [attached-policy-map-name service-policy-type]
                +--rw attached-policy-map-name    -> ../config/attached-policy-map-name
                +--rw service-policy-type         -> ../config/service-policy-type
                +--rw config
                |  +--rw attached-policy-map-name?   string
                |  +--rw service-policy-type?        ipi-enhanced-pbr-types:epbr_policy_map_t
                +--ro state
                  +--ro attached-policy-map-name?   string
                  +--ro service-policy-type?        ipi-enhanced-pbr-types:epbr_policy_map_t

rpcs:
  +---x clear-ip-bgp-peer {feature-list:HAVE_BGPD}?
  |  +---w input
  |     +---w arg                      ipi-bgp-types:bgp_hostname_t
  |     +---w peer-reset-description?   cml-data-types:cml_line_t
  +---x clear-peer-group-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
  |  +---w input
  |     +---w peer-group-tag    string
  |     +---w soft-reconfig     ipi-bgp-types:bgp_update_clear_t
  +---x clear-ip-bgp-all-peer {feature-list:HAVE_BGPD}?
  |  +---w input
```

```
  |    +---w peer-reset-description?   cml-data-types:cml_line_t
  +---x clear-bgp-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
  |  +---w input
  |    +---w soft-reconfig    ipi-bgp-types:bgp_update_clear_t
  +---x clear-bgp-remote-as-l2vpn-evpn-soft-all {feature-list:HAVE_BGP_EVPN}?
  |  +---w input
  |    +---w peer-as          uint32
  |    +---w soft-reconfig    ipi-bgp-types:bgp_update_clear_t
  +---x clear-bgp-peer-address-l2vpn-evpn-soft {feature-list:HAVE_BGP_EVPN}?
  |  +---w input
  |    +---w peer-address     ipi-bgp-types:bgp_ip_addr_t
  |    +---w soft-reconfig    ipi-bgp-types:bgp_update_clear_t
  +---x clear-ip-bgp-all-vrf {feature-list:HAVE_BGPD}?
  |  +---w input
  |    +---w vrf-name                 string
  |    +---w peer-reset-description?   cml-data-types:cml_line_t
  +---x clear-ip-bgp-vrf-peer {feature-list:HAVE_BGPD}?
  |  +---w input
  |    +---w vrf-name                 string
  |    +---w address                  ipi-bgp-types:bgp_hostname_t
  |    +---w peer-reset-description?   cml-data-types:cml_line_t
  +---x bgp-graceful-restart {feature-list:HAVE_RESTART}?
  +---x clear-bgp-statistics {feature-list:HAVE_BGPD}?
  +---x bgp-snmp-restart {feature-list:HAVE_BGPD}?
  +---x bgp-debug-on {feature-list:HAVE_BGPD}?
  |  +---w input
  |    +---w terminal-debug-options    ipi-bgp-types:bgp_debug_t
  +---x bgp-debug-off {feature-list:HAVE_BGPD}?
  |  +---w input
  |    +---w terminal-debug-options    ipi-bgp-types:bgp_debug_t
  +---x bgp-all-debug-off {feature-list:HAVE_BGPD}?

 notifications:
  +---n bgp-established-notification
  |  +--ro severity?       cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?     cml-data-types:cml_notif_class_t
```


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```
  |  +--ro peer-address?   ipi-bgp-types:bgp_ip_addr_t
  |  +--ro bgp-as?         uint32
  |  +--ro peer-state?     ipi-bgp-types:bgp_peer_status_t
  +---n bgp-backward-transition-notification
     +--ro severity?       cml-data-types:cml_notif_severity_t
     +--ro eventClass?     cml-data-types:cml_notif_class_t
     +--ro peer-address?   ipi-bgp-types:bgp_ip_addr_t
     +--ro bgp-as?         uint32
     +--ro peer-state?     ipi-bgp-types:bgp_peer_status_t
```

ipi-bridge-domain

```
  augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:
    +--rw bridge-domain {feature-list:HAVE_SUBINTERFACE,feature-
list:NOT_HAVE_CUSTOM1_SUBINTERFACE,feature-list:NOT_HAVE_SWFWDR}?
       +--rw config
       |  +--rw domain-id?         -> /ipi-network-instance:network-instances/network-instance/instance-name
       |  +--rw description?       cml-data-types:cml_line_t
       |  +--rw route-interface?   -> /ipi-interface:interfaces/interface/name
       +--rw bridge-instance
       |  +--rw config!
       |  |  +--rw instance-id    uint8
       |  |  +--rw bridge-id      string
       |  +--ro state
       |     +--ro instance-id    uint8
       |     +--ro bridge-id      string
       +--ro state
       |  +--ro domain-id?         -> /ipi-network-instance:network-instances/network-instance/instance-name
       |  +--ro description?       cml-data-types:cml_line_t
       |  +--ro route-interface?   -> /ipi-interface:interfaces/interface/name
       +--rw member-interfaces
       |  +--rw member-interface* [name]
       |     +--rw name      -> ../config/name
       |     +--rw config
       |     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
```

```
      |    +--ro state
      |       +--ro name?   -> /ipi-interface:interfaces/interface/name
      +--rw bridge-domain-mac-table
        +--rw static-entry* [mac-address]
        | +--rw mac-address    -> ../config/mac-address
        | +--rw config
        | | +--rw mac-address?      cml-data-types:cml_mac_addr_t
        | | +--rw action            ipi-bridge-types:bridge_domain_forward_deny_t
        | | +--rw interface-name    -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-interfaces/member-interface/config/name
        | +--ro state
        |    +--ro mac-address?      cml-data-types:cml_mac_addr_t
        |    +--ro action            ipi-bridge-types:bridge_domain_forward_deny_t
        |    +--ro interface-name    -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-interfaces/member-interface/config/name
        +--ro dynamic-entry* [mac-address]
          +--ro mac-address    -> ../state/mac-address
          +--ro state
            +--ro mac-address?      cml-data-types:cml_mac_addr_t
            +--ro interface-name?   -> /ipi-network-instance:network-instances/network-instance/bridge-domain/member-interfaces/member-interface/config/name
```

ipi-bridge

```
 +--rw global-bridge-vlan-check
    +--rw global
       +--rw config
       | +--rw enable?   empty
       +--ro state
          +--ro enable?   empty

 augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:
   +--rw bridge
      +--rw config!
      | +--rw protocol                  ipi-bridge-types:bridge_protocol_t
      | +--rw disable-dynamic-learning?      empty
```


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```
|  +--rw l2-protocol-destination-mac?   cml-data-types:cml_mac_addr_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|  +--rw dot1ad-encapsulation?          empty {feature-list:HAVE_DUNE}?
+--ro state
|  +--ro protocol                       ipi-bridge-types:bridge_protocol_t
|  +--ro disable-dynamic-learning?      empty
|  +--ro l2-protocol-destination-mac?   cml-data-types:cml_mac_addr_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|  +--ro dot1ad-encapsulation?          empty {feature-list:HAVE_DUNE}?
+--rw bridge-ports
|  +--rw interface* [name]
|     +--rw name      -> ../config/name
|     +--rw config
|     |  +--rw name?                          -> /ipi-interface:interfaces/interface/name
|     |  +--rw spanning-tree-protocol-status?   ipi-bridge-types:bridge_spanningtree_enable_disable_t
|     +--ro state
|        +--ro name?                          -> /ipi-interface:interfaces/interface/name
|        +--ro spanning-tree-protocol-status?   ipi-bridge-types:bridge_spanningtree_enable_disable_t
|        +--ro switchport-mode?                 ipi-port-vlan-types:port_vlan_switch_port_mode_t
+--rw fdb
   +--rw interfaces
   |  +--rw interface* [interface-name]
   |     +--rw interface-name    -> ../config/interface-name
   |     +--rw config
   |     |  +--rw interface-name?         -> /ipi-interface:interfaces/interface/name
   |     |  +--rw disable-mac-learning    empty
   |     +--ro state
   |        +--ro interface-name?         -> /ipi-interface:interfaces/interface/name
   |        +--ro disable-mac-learning    empty
   +--rw static-mac-table
   |  +--rw entry* [mac-address]
   |     +--rw mac-address    -> ../config/mac-address
   |     +--rw config
   |     |  +--rw interface-name    -> /ipi-interface:interfaces/interface/name
   |     |  +--rw mac-address?      cml-data-types:cml_mac_addr_t
   |     |  +--rw action            ipi-bridge-types:bridge_discardforward_t
   |     +--ro state
   |        +--ro interface-name    -> /ipi-interface:interfaces/interface/name
```

```
      |       +--ro mac-address?      cml-data-types:cml_mac_addr_t
      |       +--ro action            ipi-bridge-types:bridge_discardforward_t
      +--rw dynamic-mac-table
        +--ro entry* [mac-address vlan-id] {feature-list:HAVE_HAL}?
          +--ro mac-address    -> ../state/mac-address
          +--ro vlan-id        -> ../state/vlan-id
          +--ro state {feature-list:HAVE_HAL}?
            +--ro mac-address?      cml-data-types:cml_mac_addr_t
            +--ro vlan-id?          uint16
            +--ro svlan-id?         uint16 {feature-list:HAVE_PROVIDER_BRIDGE}?
            +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
            +--ro action?           ipi-bridge-types:bridge_discardforward_t
            +--ro entry-time-out?   uint32

rpcs:
  +---x bridge-clear-provider-edge-mac-address-table {feature-list:HAVE_L2}?
  |  +---w input
  |     +---w mac-type     ipi-bridge-types:bridge_mac_type_t
  |     +---w cvlan-id     uint16
  |     +---w svlan-id     uint16
  |     +---w bridge-id    string
  +---x bridge-clear-mac-address-table {feature-list:HAVE_L2}?
  |  +---w input
  |     +---w mac-type          ipi-bridge-types:bridge_mac_type_t
  |     +---w bridge-id         string
  |     +---w interface-name?   string
  |     +---w mac-address?      cml-data-types:cml_mac_addr_t
  |     +---w vlan-id?          uint16
  +---x bridge-clear-provider-edge-dynamic-mac-address-table {feature-list:HAVE_L2}?
  |  +---w input
  |     +---w cvlan-id     uint16
  |     +---w svlan-id     uint16
  |     +---w bridge-id    string
  +---x bridge-clear-dynamic-mac-address-table {feature-list:HAVE_L2}?
  |  +---w input
  |     +---w bridge-id         string
```


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```
|    +---w mac-address?      cml-data-types:cml_mac_addr_t
|    +---w interface-name?   string
|    +---w vlan-id?          uint16
+---x bridge-clear-mstp-port-dynamic-mac-address-table {feature-list:HAVE_L2}?
  +---w input
     +---w interface-name    string
     +---w instance-id       uint32
     +---w bridge-id         string
```

ipi-cfm

```
+--rw cfm {feature-list:HAVE_CFM}?
  +--rw global
  |  +--ro loopback
  |  |  +--ro state
  |  |     +--ro counters
  |  |        +--ro messages-transmitted?            yang:zero-based-counter32
  |  |        +--ro replies-received?                yang:zero-based-counter32
  |  |        +--ro out-of-order-replies-received?   yang:zero-based-counter32
  |  |        +--ro bad-msdu?                        yang:zero-based-counter32
  |  +--rw linktrace
  |  |  +--rw cache
  |  |  |  +--rw config!
  |  |  |  |  +--rw cache-enable    empty
  |  |  |  |  +--rw cache-size?     uint16
  |  |  |  +--ro state
  |  |  |     +--ro cache-enable    empty
  |  |  |     +--ro cache-size?     uint16
  |  |  +--ro state
  |  |     +--ro counters
  |  |        +--ro messages-transmitted?          yang:zero-based-counter32
  |  |        +--ro replies-transmitted?           yang:zero-based-counter32
```

```
| |       +--ro valid-replies-received?        yang:zero-based-counter32
| |       +--ro unexpected-replies-received?   yang:zero-based-counter32
| +--rw nvo3-oam
|    +--rw config
|    | +--rw enable?   empty
|    | +--rw mode?     ipi-cfm-data-types:cfm_nvo3_vxlan_oam_mode_t
|    +--ro state
|       +--ro enable?   empty
|       +--ro mode?     ipi-cfm-data-types:cfm_nvo3_vxlan_oam_mode_t
+--rw debug
| +--rw config
| | +--rw options?   ipi-cfm-data-types:cfm_debug_t
| +--ro state
|    +--ro options?                ipi-cfm-data-types:cfm_debug_t
|    +--ro terminal-debug-status?   ipi-cfm-data-types:cfm_debug_t
+--rw maintenance-domains
| +--rw maintenance-domain* [md-name]
|    +--rw md-name                    -> ../config/md-name
|    +--rw config
|    | +--rw md-name?        string
|    | +--rw type            ipi-cfm-data-types:cfm_md_type_t
|    | +--rw level           uint8
|    | +--rw mip-creation?   ipi-cfm-data-types:cfm_mip_creation_mode_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|    +--ro state
|    | +--ro md-name?        string
|    | +--ro type            ipi-cfm-data-types:cfm_md_type_t
|    | +--ro level           uint8
|    | +--ro mip-creation?   ipi-cfm-data-types:cfm_mip_creation_mode_t {feature-list:HAVE_PROVIDER_BRIDGE}?
|    +--rw maintenance-associations
|    | +--rw maintenance-association* [ma-name]
|    |    +--rw ma-name                 -> ../config/ma-name
|    |    +--rw config
|    |    | +--rw mip-creation?              ipi-cfm-data-types:cfm_ma_mip_creation_mode_t
|    |    | +--rw vlan-id?                   uint16
|    |    | +--rw inner-vlan-id?             uint16
|    |    | +--rw bridge-id?                 -> /ipi-network-instance:network-instances/network-instance/instance-name
```


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```
    |    |    | +--rw link-level-ma?              empty
    |    |    | +--rw mip-interface-name*         -> /ipi-interface:interfaces/interface/name {feature-
list:HAVE_PROVIDER_BRIDGE}?
    |    |    | +--rw evpn-id?                    uint32 {feature-list:HAVE_BGP_EVPN,feature-
list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_CUSTOM1_MPLS_OR_HAVE_VXLAN_OAM}?
    |    |    | +--rw vpws-vc-name?               string {feature-list:HAVE_MPLS_VC,feature-
list:NOT_HAVE_CUSTOM1_MPLS}?
    |    |    | +--rw ma-name?                    string
    |    |    | +--rw type                        ipi-cfm-data-types:cfm_ma_type_t
    |    |    | +--rw ccm-interval?               ipi-cfm-data-types:cfm_msg_interval_t
    |    |    | +--rw enable-rmep-auto-discovery?   empty {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |    |    | +--rw static-rmep-identifiers*      uint16
    |    |    +--ro state
    |    |    | +--ro mip-creation?               ipi-cfm-data-types:cfm_ma_mip_creation_mode_t
    |    |    | +--ro vlan-id?                    uint16
    |    |    | +--ro inner-vlan-id?              uint16
    |    |    | +--ro bridge-id?                  -> /ipi-network-instance:network-instances/network-instance/instance-name
    |    |    | +--ro link-level-ma?              empty
    |    |    | +--ro mip-interface-name*         -> /ipi-interface:interfaces/interface/name {feature-
list:HAVE_PROVIDER_BRIDGE}?
    |    |    | +--ro evpn-id?                    uint32 {feature-list:HAVE_BGP_EVPN,feature-
list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_CUSTOM1_MPLS_OR_HAVE_VXLAN_OAM}?
    |    |    | +--ro vpws-vc-name?               string {feature-list:HAVE_MPLS_VC,feature-
list:NOT_HAVE_CUSTOM1_MPLS}?
    |    |    | +--ro ma-name?                    string
    |    |    | +--ro type                        ipi-cfm-data-types:cfm_ma_type_t
    |    |    | +--ro ccm-interval?               ipi-cfm-data-types:cfm_msg_interval_t
    |    |    | +--ro enable-rmep-auto-discovery?   empty {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |    |    | +--ro static-rmep-identifiers*      uint16
    |    |    +--rw maintenance-end-points
    |    |    | +--rw maintenance-end-point* [mep-id]
    |    |    |    +--rw mep-id                      -> ../config/mep-id
    |    |    |    +--rw config
    |    |    |    | +--rw mep-id?                uint16
    |    |    |    | +--rw direction              ipi-cfm-data-types:cfm_mep_direction_t
    |    |    |    | +--rw administrative-state   ipi-cfm-data-types:cfm_mep_state_t
    |    |    |    | +--rw mep-outer-vlan?        uint16
    |    |    |    | +--rw mep-inner-vlan?        uint16
```

```
|   |   |   | +--rw bw-mapped-interface?    -> /ipi-interface:interfaces/interface/name
|   |   |   | +--rw interface-name?         -> /ipi-interface:interfaces/interface/name
|   |   |   | +--rw remote-vpws-vc-name?    string
|   |   |   | +--rw remote-evpn-id?         uint32 {feature-list:NOT_HAVE_MARVELL}?
|   |   |   | +--rw remote-vtep-ip?         inet:ipv4-address {feature-list:HAVE_VXLAN_OAM}?
|   |   |   +--ro state
|   |   |   | +--ro mep-id?                 uint16
|   |   |   | +--ro direction               ipi-cfm-data-types:cfm_mep_direction_t
|   |   |   | +--ro administrative-state    ipi-cfm-data-types:cfm_mep_state_t
|   |   |   | +--ro mep-outer-vlan?         uint16
|   |   |   | +--ro mep-inner-vlan?         uint16
|   |   |   | +--ro interface-name?         -> /ipi-interface:interfaces/interface/name
|   |   |   | +--ro remote-vpws-vc-name?    string
|   |   |   | +--ro remote-evpn-id?         uint32 {feature-list:NOT_HAVE_MARVELL}?
|   |   |   | +--ro mac-address?            cml-data-types:cml_mac_addr_t
|   |   |   | +--ro ma-status?              ipi-cfm-data-types:cfm_ma_status_t
|   |   |   | +--ro mep-connectivity-status?   ipi-cfm-data-types:cfm_mep_connectivity_status_t
|   |   |   | +--ro bw-mapped-interface?    -> /ipi-interface:interfaces/interface/name
|   |   |   | +--ro remote-vtep-ip?         inet:ipv4-address {feature-list:HAVE_VXLAN_OAM}?
|   |   |   +--rw continuity-check
|   |   |   | +--rw config
|   |   |   | | +--rw enable-cc-multicast?          empty
|   |   |   | | +--rw lowest-fault-priority-defect?   ipi-cfm-data-types:cfm_mep_lowest_fault_priority_t
|   |   |   | | +--rw mep-rmep-auto-discovery?      empty {feature-list:HAVE_DUNE}?
|   |   |   | | +--rw mep-rmep-cross-check*         uint16 {feature-list:HAVE_DUNE}?
|   |   |   | +--ro state
|   |   |   | | +--ro enable-cc-multicast?          empty
|   |   |   | | +--ro lowest-fault-priority-defect?   ipi-cfm-data-types:cfm_mep_lowest_fault_priority_t
|   |   |   | | +--ro mep-rmep-auto-discovery?      empty {feature-list:HAVE_DUNE}?
|   |   |   | | +--ro mep-rmep-cross-check*         uint16 {feature-list:HAVE_DUNE}?
|   |   |   | | +--ro highest-priority-defect-found?   ipi-cfm-data-types:cfm_mep_highest_fault_defect_t
|   |   |   | | +--ro cc-received-defect?           ipi-cfm-data-types:cfm_received_ccm_defect_t
|   |   |   | | +--ro cc-messages-received?         yang:zero-based-counter32
|   |   |   | | +--ro cc-messages-sent?             yang:zero-based-counter32
|   |   |   | +--ro remote-mep-database
|   |   |   | | +--ro remote-mep* [rmep-id]
```


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```
|   |   |   | |    +--ro rmep-id    -> ../state/rmep-id
|   |   |   | |    +--ro state
|   |   |   | |      +--ro rmep-id?       uint16
|   |   |   | |      +--ro mac-address?   cml-data-types:cml_mac_addr_t
|   |   |   | |      +--ro rdi?           empty
|   |   |   |  +--ro evpn-ccms
|   |   |   |    +--ro evpn-ccm* [remote-mep-id]
|   |   |   |      +--ro remote-mep-id    -> ../state/remote-mep-id
|   |   |   |      +--ro state
|   |   |   |        +--ro remote-mep-id?               uint32
|   |   |   |        +--ro last-good-flow-id?           uint32
|   |   |   |        +--ro last-recovered-flow-id?      uint32
|   |   |   |        +--ro first-good-sequence-number?  uint32
|   |   |   |        +--ro last-good-sequence-number?   uint32
|   |   |   |        +--ro flow-state?                  ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
|   |   |   |        +--ro last-flapped-time?           yang:date-and-time
|   |   |   |        +--ro last-recovered-time?         yang:date-and-time
|   |   |   +--ro loopback
|   |   |   |  +--ro last-test-result
|   |   |   |    +--ro state
|   |   |   |      +--ro target-mac-address?     ipi-cfm-data-types:cfm_rmep_mac_addr_t
|   |   |   |      +--ro messages-transmitted?   yang:zero-based-counter32
|   |   |   |      +--ro replies-received?       yang:zero-based-counter32
|   |   |   +--ro linktrace-database
|   |   |   |  +--ro linktrace-entry* [transaction-id]
|   |   |   |    +--ro transaction-id    -> ../state/transaction-id
|   |   |   |    +--ro state
|   |   |   |    |  +--ro transaction-id?      uint32
|   |   |   |    |  +--ro target-mac-address?   ipi-cfm-data-types:cfm_rmep_mac_addr_t
|   |   |   |    +--ro replies
|   |   |   |      +--ro reply* [index]
|   |   |   |        +--ro index    -> ../state/index
|   |   |   |        +--ro state
|   |   |   |          +--ro index?                  uint8
|   |   |   |          +--ro hops?                   uint8
|   |   |   |          +--ro destination-mac-address?   ipi-cfm-data-types:cfm_rmep_mac_addr_t
```

```
|  |  |  |          +--ro relay-action?             ipi-cfm-data-types:cfm_relay_action_t
|  |  |  +--ro mep-nvo-operational
|  |  |  | +--ro state
|  |  |  |    +--ro direction?             ipi-cfm-data-types:cfm_mep_direction_t
|  |  |  |    +--ro administrative-state?   ipi-cfm-data-types:cfm_mep_state_t
|  |  |  |    +--ro remote-vtep-ip?         inet:ipv4-address
|  |  |  +--rw ethernet-bandwidth-notification {feature-list:Y1731_HW_OFFLOAD}?
|  |  |  | +--rw config!
|  |  |  | | +--rw enable-receive               empty
|  |  |  | | +--rw wait-to-restore-timer?       uint32
|  |  |  | | +--rw peer-port-id?                uint32
|  |  |  | | +--rw adaptive-bandwidth-disable?   empty
|  |  |  | +--ro state
|  |  |  |    +--ro enable-receive                  empty
|  |  |  |    +--ro wait-to-restore-timer?          uint32
|  |  |  |    +--ro peer-port-id?                   uint32
|  |  |  |    +--ro adaptive-bandwidth-disable?     empty
|  |  |  |    +--ro nominal-bandwidth?              string
|  |  |  |    +--ro current-bandwidth?              string
|  |  |  |    +--ro signal-state?                   ipi-cfm-data-types:cfm_bn_csf_signal_state_t
|  |  |  |    +--ro messages-received?              yang:zero-based-counter32
|  |  |  |    +--ro messages-dropped?               yang:zero-based-counter32
|  |  |  |    +--ro last-message-received-time?     string
|  |  |  |    +--ro message-rx-interval?            uint8
|  |  |  |    +--ro peer-mac-address?               cml-data-types:cml_mac_addr_t
|  |  |  |    +--ro mep-interface-name?             string
|  |  |  |    +--ro wait-to-restore-time-remaining?   uint32
|  |  |  |    +--ro peer-port-identifier?           uint32
|  |  |  |    +--ro curr-state-elapsed-time?        string
|  |  |  +--rw ethernet-client-signal-fail {feature-list:Y1731_HW_OFFLOAD}?
|  |  |  | +--rw config!
|  |  |  | | +--rw enable-receive          empty
|  |  |  | | +--rw wait-to-restore-timer?   uint32
|  |  |  | +--ro state
|  |  |  |    +--ro enable-receive                  empty
|  |  |  |    +--ro wait-to-restore-timer?          uint32
```


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```
|  |  |  |  +--ro signal-state?                  ipi-cfm-data-types:cfm_bn_csf_signal_state_t
|  |  |  |  +--ro messages-received?             yang:zero-based-counter32
|  |  |  |  +--ro messages-dropped?              yang:zero-based-counter32
|  |  |  |  +--ro last-message-received-time?    string
|  |  |  |  +--ro wait-to-restore-time-remaining?  uint32
|  |  |  |  +--ro message-rx-interval?           uint8
|  |  |  |  +--ro peer-mac-address?              cml-data-types:cml_mac_addr_t
|  |  |  |  +--ro mep-interface-name?            string
|  |  |  +--rw ethernet-locked-signal {feature-list:Y1731_HW_OFFLOAD}?
|  |  |  |  +--rw config!
|  |  |  |  |  +--rw lock-state        ipi-cfm-data-types:cfm_mep_lck_t
|  |  |  |  |  +--rw client-md-level?  uint8
|  |  |  |  |  +--rw interval?         ipi-cfm-data-types:cfm_y1731_tx_interval_t
|  |  |  |  |  +--rw priority?         uint8
|  |  |  |  +--ro state
|  |  |  |  |  +--ro lock-state            ipi-cfm-data-types:cfm_mep_lck_t
|  |  |  |  |  +--ro client-md-level?      uint8
|  |  |  |  |  +--ro interval?             ipi-cfm-data-types:cfm_y1731_tx_interval_t
|  |  |  |  |  +--ro priority?             uint8
|  |  |  |  |  +--ro receive-status?       boolean
|  |  |  |  |  +--ro transmit-status?      boolean
|  |  |  |  |  +--ro messages-received?    yang:zero-based-counter32
|  |  |  |  |  +--ro messages-transmitted?  yang:zero-based-counter32
|  |  |  +--rw ethernet-alarm-indication-signal {feature-list:HAVE_CFM_Y1731}?
|  |  |  |  +--rw config!
|  |  |  |  |  +--rw enable-status     empty
|  |  |  |  |  +--rw client-md-level   uint8
|  |  |  |  |  +--rw interval?         ipi-cfm-data-types:cfm_y1731_tx_interval_t
|  |  |  |  +--ro state
|  |  |  |  |  +--ro enable-status          empty
|  |  |  |  |  +--ro client-md-level        uint8
|  |  |  |  |  +--ro interval?              ipi-cfm-data-types:cfm_y1731_tx_interval_t
|  |  |  |  |  +--ro is-ais-frame-received?  boolean
|  |  |  +--rw y1731-responders {feature-list:HAVE_CFM_Y1731}?
|  |  |  |  +--rw config
|  |  |  |  |  +--rw enable-lm-responder?  ipi-cfm-data-types:cfm_lm_reply_type_t {feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
```

```
   |    |    |    | | +--rw enable-dm-responder?   empty {feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   |    |    |    | +--ro state
   |    |    |    |    +--ro enable-lm-responder?   ipi-cfm-data-types:cfm_lm_reply_type_t {feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   |    |    |    |    +--ro enable-dm-responder?   empty {feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   |    |    |    +--rw ethernet-test-signal {feature-list:Y1731_HW_OFFLOAD}?
   |    |    |    | +--ro state
   |    |    |    |    +--ro rmep-id?                    uint16
   |    |    |    |    +--ro peer-mac-address?           cml-data-types:cml_mac_addr_t
   |    |    |    |    +--ro session-status?             ipi-cfm-data-types:cfm_tst_session_status_t
   |    |    |    |    +--ro start-time?                 yang:date-and-time
   |    |    |    |    +--ro end-time?                   yang:date-and-time
   |    |    |    |    +--ro elapsed-time?               uint32
   |    |    |    |    +--ro in-test-frames?             yang:zero-based-counter64
   |    |    |    |    +--ro in-out-of-order-frames?     yang:zero-based-counter64
   |    |    |    |    +--ro in-ber-error-frames?        yang:zero-based-counter64
   |    |    |    |    +--ro last-packet-sequence-number?   uint64
   |    |    |    |    +--ro out-test-frames?            yang:zero-based-counter64
   |    |    |    +--ro ethernet-loss-measurements {feature-list:Y1731_HW_OFFLOAD}?
   |    |    |    | +--ro current-measurement
   |    |    |    | | +--ro state
   |    |    |    | |    +--ro counters
   |    |    |    | |    | +--ro near-end-loss?                uint32
   |    |    |    | |    | +--ro far-end-loss?                 uint32
   |    |    |    | |    | +--ro near-end-accumulated-loss?    uint32
   |    |    |    | |    | +--ro far-end-accumulated-loss?     uint32
   |    |    |    | |    | +--ro near-end-frame-loss-ratio?    uint32
   |    |    |    | |    | +--ro far-end-frame-loss-ratio?     uint32
   |    |    |    | |    | +--ro near-end-frame-loss-ratio-min?   uint32
   |    |    |    | |    | +--ro far-end-frame-loss-ratio-min?    uint32
   |    |    |    | |    | +--ro near-end-frame-loss-ratio-max?   uint32
   |    |    |    | |    | +--ro far-end-frame-loss-ratio-max?    uint32
   |    |    |    | |    +--ro measurement-id?     uint16
   |    |    |    | |    +--ro suspect-status?     boolean
   |    |    |    | |    +--ro measurement-type?   ipi-cfm-data-types:cfm_lm_measurement_type_t
   |    |    |    | |    +--ro elapsed-time?       uint32
   |    |    |    | |    +--ro start-time?         yang:date-and-time
```


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```
|   |   |   | |   +--ro session-status?     ipi-cfm-data-types:cfm_pm_session_status_t
|   |   |   | +--ro historic-measurements
|   |   |   |   +--ro historic-measurement* [measurement-id]
|   |   |   |     +--ro measurement-id    -> ../state/measurement-id
|   |   |   |     +--ro state
|   |   |   |       +--ro counters
|   |   |   |       | +--ro near-end-loss?                 uint32
|   |   |   |       | +--ro far-end-loss?                  uint32
|   |   |   |       | +--ro near-end-accumulated-loss?     uint32
|   |   |   |       | +--ro far-end-accumulated-loss?      uint32
|   |   |   |       | +--ro near-end-frame-loss-ratio?     uint32
|   |   |   |       | +--ro far-end-frame-loss-ratio?      uint32
|   |   |   |       | +--ro near-end-frame-loss-ratio-min? uint32
|   |   |   |       | +--ro far-end-frame-loss-ratio-min?  uint32
|   |   |   |       | +--ro near-end-frame-loss-ratio-max? uint32
|   |   |   |       | +--ro far-end-frame-loss-ratio-max?  uint32
|   |   |   |       +--ro measurement-id?     uint16
|   |   |   |       +--ro suspect-status?     boolean
|   |   |   |       +--ro measurement-type?   ipi-cfm-data-types:cfm_lm_measurement_type_t
|   |   |   |       +--ro elapsed-time?       uint32
|   |   |   |       +--ro end-time?           yang:date-and-time
|   |   |   +--ro ethernet-delay-measurements {feature-list:Y1731_HW_OFFLOAD}?
|   |   |     +--ro current-measurement
|   |   |     | +--ro state
|   |   |     | | +--ro measurement-id?              uint16
|   |   |     | | +--ro suspect-status?              boolean
|   |   |     | | +--ro measurement-type?            ipi-cfm-data-types:cfm_dm_measurement_type_t
|   |   |     | | +--ro elapsed-time?                uint32
|   |   |     | | +--ro start-time?                  yang:date-and-time
|   |   |     | | +--ro session-status?              ipi-cfm-data-types:cfm_pm_session_status_t
|   |   |     | | +--ro frame-delay {feature-list:Y1731_HW_OFFLOAD}?
|   |   |     | | | +--ro min?   yang:gauge32
|   |   |     | | | +--ro max?   yang:gauge32
|   |   |     | | | +--ro avg?   yang:gauge32
|   |   |     | | +--ro inter-frame-delay-variation {feature-list:Y1731_HW_OFFLOAD}?
|   |   |     | |   +--ro min?   yang:gauge32
```

```
|   |   |       | |    +--ro max?   yang:gauge32
|   |   |       | |    +--ro avg?   yang:gauge32
|   |   |       | +--ro frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
|   |   |       | |  +--ro frame-delay-bin* [bin-number]
|   |   |       | |    +--ro bin-number    -> ../state/bin-number
|   |   |       | |    +--ro state
|   |   |       | |       +--ro bin-number?   uint8
|   |   |       | |       +--ro threshold?    uint32
|   |   |       | |       +--ro counter?      yang:gauge32
|   |   |       | +--ro inter-frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
|   |   |       |    +--ro inter-frame-delay-bin* [bin-number]
|   |   |       |       +--ro bin-number    -> ../state/bin-number
|   |   |       |       +--ro state
|   |   |       |          +--ro bin-number?   uint8
|   |   |       |          +--ro threshold?    uint32
|   |   |       |          +--ro counter?      yang:gauge32
|   |   |       +--ro historic-measurements
|   |   |         +--ro historic-measurement* [measurement-id]
|   |   |           +--ro measurement-id           -> ../state/measurement-id
|   |   |           +--ro state
|   |   |           | +--ro measurement-id?              uint16
|   |   |           | +--ro suspect-status?              boolean
|   |   |           | +--ro measurement-type?            ipi-cfm-data-types:cfm_dm_measurement_type_t
|   |   |           | +--ro elapsed-time?                uint32
|   |   |           | +--ro end-time?                    yang:date-and-time
|   |   |           | +--ro frame-delay {feature-list:Y1731_HW_OFFLOAD}?
|   |   |           | | +--ro min?   yang:gauge32
|   |   |           | | +--ro max?   yang:gauge32
|   |   |           | | +--ro avg?   yang:gauge32
|   |   |           | +--ro inter-frame-delay-variation {feature-list:Y1731_HW_OFFLOAD}?
|   |   |           |    +--ro min?   yang:gauge32
|   |   |           |    +--ro max?   yang:gauge32
|   |   |           |    +--ro avg?   yang:gauge32
|   |   |           +--ro frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
|   |   |           | +--ro frame-delay-bin* [bin-number]
|   |   |           |    +--ro bin-number    -> ../state/bin-number
```


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```
|    |    |            |    +--ro state
|    |    |            |       +--ro bin-number?   uint8
|    |    |            |       +--ro threshold?    uint32
|    |    |            |       +--ro counter?      yang:gauge32
|    |    |            +--ro inter-frame-delay-bins {feature-list:Y1731_HW_OFFLOAD}?
|    |    |               +--ro inter-frame-delay-bin* [bin-number]
|    |    |                  +--ro bin-number    -> ../state/bin-number
|    |    |                  +--ro state
|    |    |                     +--ro bin-number?   uint8
|    |    |                     +--ro threshold?    uint32
|    |    |                     +--ro counter?      yang:gauge32
|    |    +--ro default-mips
|    |    |  +--ro default-mip* [interface-name]
|    |    |     +--ro interface-name    -> ../state/interface-name
|    |    |     +--ro state
|    |    |        +--ro interface-name?   string
|    |    |        +--ro vlan-id?          uint16
|    |    |        +--ro mac-address?      cml-data-types:cml_mac_addr_t
|    |    +--ro ma-nvo-operational
|    |       +--ro state
|    |          +--ro type?      ipi-cfm-data-types:cfm_ma_type_t
|    |          +--ro vnid?      uint32
|    |          +--ro vlan-id?   uint16
|    +--ro md-nvo-operational
|       +--ro state
|          +--ro type?          ipi-cfm-data-types:cfm_md_type_t
|          +--ro level?         uint8
|          +--ro mip-creation?   ipi-cfm-data-types:cfm_mip_creation_mode_t
+--rw ethernet-test-signal-profiles {feature-list:Y1731_HW_OFFLOAD}?
|  +--rw ethernet-test-signal-profile* [profile-name]
|     +--rw profile-name               -> ../config/profile-name
|     +--rw config
|     |  +--rw profile-name?   string
|     |  +--rw mode?           ipi-cfm-data-types:cfm_test_mode_t
|     |  +--rw test-type?      ipi-cfm-data-types:cfm_test_type_t
|     |  +--rw frame-size?     ipi-cfm-data-types:cfm_test_framesize_type_t
```

```
|    | +--rw pattern-type?   ipi-cfm-data-types:cfm_test_pattern_type_t
|    +--ro state
|    | +--ro profile-name?   string
|    | +--ro mode?           ipi-cfm-data-types:cfm_test_mode_t
|    | +--ro test-type?      ipi-cfm-data-types:cfm_test_type_t
|    | +--ro frame-size?     ipi-cfm-data-types:cfm_test_framesize_type_t
|    | +--ro pattern-type?   ipi-cfm-data-types:cfm_test_pattern_type_t
|    +--rw excess-information-rate
|    | +--rw config {feature-list:Y1731_HW_OFFLOAD,feature-list:HAVE_DNX}?
|    | | +--rw eir?        uint64
|    | | +--rw eir-unit?   ipi-cfm-data-types:cfm_test_rate_unit_t
|    | | +--rw eir-cos?    uint8
|    | | +--rw eir-dei?    uint8
|    | +--ro state {feature-list:Y1731_HW_OFFLOAD,feature-list:HAVE_DNX}?
|    |   +--ro eir?        uint64
|    |   +--ro eir-unit?   ipi-cfm-data-types:cfm_test_rate_unit_t
|    |   +--ro eir-cos?    uint8
|    |   +--ro eir-dei?    uint8
|    +--rw commited-information-rate
|      +--rw config {feature-list:Y1731_HW_OFFLOAD}?
|      | +--rw cir?        uint64
|      | +--rw cir-unit?   ipi-cfm-data-types:cfm_test_rate_unit_t
|      | +--rw cir-cos?    uint8
|      | +--rw cir-dei?    uint8
|      +--ro state
|        +--ro cir?        uint64
|        +--ro cir-unit?   ipi-cfm-data-types:cfm_test_rate_unit_t
|        +--ro cir-cos?    uint8
|        +--ro cir-dei?    uint8
   +--rw ethernet-loss-measurement-profiles {feature-list:HAVE_CFM_Y1731,feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   | +--rw ethernet-loss-measurement-profile* [profile-name]
   |    +--rw profile-name    -> ../config/profile-name
   |    +--rw config
   |    | +--rw profile-name?          string
   |    | +--rw measurement-type?      ipi-cfm-data-types:cfm_lm_measurement_type_t
   |    | +--rw measurement-interval?  uint32
```


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```
|    | +--rw message-period?        ipi-cfm-data-types:cfm_msg_interval_t
|    | +--rw intervals-stored?      uint16
|    +--ro state
|      +--ro profile-name?          string
|      +--ro measurement-type?      ipi-cfm-data-types:cfm_lm_measurement_type_t
|      +--ro measurement-interval?  uint32
|      +--ro message-period?        ipi-cfm-data-types:cfm_msg_interval_t
|      +--ro intervals-stored?      uint16
   +--rw ethernet-delay-measurement-profiles {feature-list:HAVE_CFM_Y1731,feature-
list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
     +--rw ethernet-delay-measurement-profile* [profile-name]
       +--rw profile-name      -> ../config/profile-name
       +--rw config
       | +--rw profile-name?             string
       | +--rw measurement-interval?     uint16
       | +--rw message-period?           ipi-cfm-data-types:cfm_msg_interval_t
       | +--rw intervals-stored?         uint16
       | +--rw bins-per-fd-interval?     uint8
       | +--rw bins-per-ifdv-interval?   uint8
       +--ro state
       | +--ro profile-name?             string
       | +--ro measurement-interval?     uint16
       | +--ro message-period?           ipi-cfm-data-types:cfm_msg_interval_t
       | +--ro intervals-stored?         uint16
       | +--ro bins-per-fd-interval?     uint8
       | +--ro bins-per-ifdv-interval?   uint8
       +--rw bin-thresholds
         +--rw bin-threshold* [type bin-number]
           +--rw type          -> ../config/type
           +--rw bin-number    -> ../config/bin-number
           +--rw config
           | +--rw type?         ipi-cfm-data-types:cfm_dm_measurement_bin_type_t
           | +--rw bin-number?   uint8
           | +--rw threshold     uint32
           +--ro state
             +--ro type?         ipi-cfm-data-types:cfm_dm_measurement_bin_type_t
             +--ro bin-number?   uint8
```

```
            +--ro threshold     uint32

 rpcs:
   +---x cfm-l2-abort-eth-test-signal {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w mep-id         uint16
   |     +---w ma-name        string
   |     +---w domain-name    string
   +---x cfm-l2-eth-test-on-demand-start-relative-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w test-target       ipi-cfm-data-types:cfm_rmep_type_t
   |     +---w mep-id            uint16
   |     +---w ma-name           string
   |     +---w md-name           string
   |     +---w profile-name      string
   |     +---w start-time-type   ipi-cfm-data-types:cfm_relative_time_t
   |     +---w start-time        uint32
   |     +---w stop-time-type    ipi-cfm-data-types:cfm_relative_time_t
   |     +---w stop-time         uint32
   +---x cfm-l2-eth-test-on-demand-start-absolute-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w test-target       ipi-cfm-data-types:cfm_rmep_type_t
   |     +---w mep-id            uint16
   |     +---w ma-name           string
   |     +---w md-name           string
   |     +---w profile-name      string
   |     +---w start-time-type   ipi-cfm-data-types:cfm_absolute_time_t
   |     +---w start-time        string
   |     +---w stop-time-type    ipi-cfm-data-types:cfm_relative_time_t
   |     +---w stop-time         uint32
   +---x cfm-l2-eth-test-on-demand-start-relative-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w test-target       ipi-cfm-data-types:cfm_rmep_type_t
   |     +---w mep-id            uint16
   |     +---w ma-name           string
   |     +---w md-name           string
```


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```
|    +---w profile-name       string
|    +---w start-time-type    ipi-cfm-data-types:cfm_relative_time_t
|    +---w start-time         uint32
|    +---w stop-time-type     ipi-cfm-data-types:cfm_absolute_time_t
|    +---w stop-time          string
+---x cfm-l2-eth-test-on-demand-start-absolute-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|    +---w test-target        ipi-cfm-data-types:cfm_rmep_type_t
|    +---w mep-id             uint16
|    +---w ma-name            string
|    +---w md-name            string
|    +---w profile-name       string
|    +---w start-time-type    ipi-cfm-data-types:cfm_absolute_time_t
|    +---w start-time         string
|    +---w stop-time-type     ipi-cfm-data-types:cfm_absolute_time_t
|    +---w stop-time          string
+---x cfm-l2-eth-lm-start-proactive {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|    +---w md-name         string
|    +---w ma-name         string
|    +---w mep-id          uint16
|    +---w profile-name    string
|    +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-none {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|    +---w md-name             string
|    +---w ma-name             string
|    +---w mep-id              uint16
|    +---w profile-name        string
|    +---w rmep-id             ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type     ipi-cfm-data-types:cfm_start_time_immediate_t
|    +---w stop-time-type      ipi-cfm-data-types:cfm_stop_time_none_t
|    +---w repetition-period   yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|    +---w md-name             string
```

```
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_start_time_immediate_t
|    +---w stop-time-type       ipi-cfm-data-types:cfm_relative_time_t
|    +---w stop-time            string
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-immediate-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
|  +---w input
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_start_time_immediate_t
|    +---w stop-time-type       ipi-cfm-data-types:cfm_absolute_time_t
|    +---w stop-time            string
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-none {feature-list:Y1731_HW_OFFLOAD}?
|  +---w input
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_relative_time_t
|    +---w start-time           string
|    +---w stop-time-type       ipi-cfm-data-types:cfm_stop_time_none_t
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
|  +---w input
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
```


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```
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_relative_time_t
|    +---w start-time           string
|    +---w stop-time-type       ipi-cfm-data-types:cfm_relative_time_t
|    +---w stop-time            string
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-relative-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
|  +---w input
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_relative_time_t
|    +---w start-time           string
|    +---w stop-time-type       ipi-cfm-data-types:cfm_absolute_time_t
|    +---w stop-time            string
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-none {feature-list:Y1731_HW_OFFLOAD}?
|  +---w input
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_absolute_time_t
|    +---w start-time           string
|    +---w stop-time-type       ipi-cfm-data-types:cfm_stop_time_none_t
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-relative {feature-list:Y1731_HW_OFFLOAD}?
|  +---w input
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
```

```
|    +---w start-time-type      ipi-cfm-data-types:cfm_absolute_time_t
|    +---w start-time           string
|    +---w stop-time-type       ipi-cfm-data-types:cfm_relative_time_t
|    +---w stop-time            string
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-eth-lm-on-demand-start-absolute-stop-absolute {feature-list:Y1731_HW_OFFLOAD}?
| +---w input
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_absolute_time_t
|    +---w start-time           string
|    +---w stop-time-type       ipi-cfm-data-types:cfm_absolute_time_t
|    +---w stop-time            string
|    +---w repetition-period    yang:timeticks
+---x cfm-l2-abort-eth-lm-test {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|    +---w md-name    string
|    +---w ma-name    string
|    +---w mep-id     uint16
+---x cfm-l2-clear-eth-lm-history-stats {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|    +---w md-name    string
|    +---w ma-name    string
|    +---w mep-id     uint16
+---x cfm-l2-eth-dm-start-proactive {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
| +---w input
|    +---w md-name         string
|    +---w ma-name         string
|    +---w mep-id          uint16
|    +---w profile-name    string
|    +---w rmep-id         ipi-cfm-data-types:cfm_rmep_type_t
```


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```
  +---x cfm-l2-eth-dm-on-demand-start-immediate-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  | +---w input
  |    +---w md-name             string
  |    +---w ma-name             string
  |    +---w mep-id              uint16
  |    +---w profile-name        string
  |    +---w rmep-id             ipi-cfm-data-types:cfm_rmep_type_t
  |    +---w start-time-type     ipi-cfm-data-types:cfm_start_time_immediate_t
  |    +---w stop-time-type      ipi-cfm-data-types:cfm_stop_time_none_t
  |    +---w repetition-period   yang:timeticks
  +---x cfm-l2-eth-dm-on-demand-start-immediate-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  | +---w input
  |    +---w md-name             string
  |    +---w ma-name             string
  |    +---w mep-id              uint16
  |    +---w profile-name        string
  |    +---w rmep-id             ipi-cfm-data-types:cfm_rmep_type_t
  |    +---w start-time-type     ipi-cfm-data-types:cfm_start_time_immediate_t
  |    +---w stop-time-type      ipi-cfm-data-types:cfm_relative_time_t
  |    +---w stop-time           string
  |    +---w repetition-period   yang:timeticks
  +---x cfm-l2-eth-dm-on-demand-start-immediate-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  | +---w input
  |    +---w md-name             string
  |    +---w ma-name             string
  |    +---w mep-id              uint16
  |    +---w profile-name        string
  |    +---w rmep-id             ipi-cfm-data-types:cfm_rmep_type_t
  |    +---w start-time-type     ipi-cfm-data-types:cfm_start_time_immediate_t
  |    +---w stop-time-type      ipi-cfm-data-types:cfm_absolute_time_t
  |    +---w stop-time           string
  |    +---w repetition-period   yang:timeticks
  +---x cfm-l2-eth-dm-on-demand-start-relative-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  | +---w input
```

```
|    +---w md-name              string
|    +---w ma-name              string
|    +---w mep-id               uint16
|    +---w profile-name         string
|    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
|    +---w start-time-type      ipi-cfm-data-types:cfm_relative_time_t
|    +---w start-time           string
|    +---w stop-time-type       ipi-cfm-data-types:cfm_stop_time_none_t
|    +---w repetition-period    yang:timeticks
   +---x cfm-l2-eth-dm-on-demand-start-relative-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   | +---w input
   |    +---w md-name              string
   |    +---w ma-name              string
   |    +---w mep-id               uint16
   |    +---w profile-name         string
   |    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
   |    +---w start-time-type      ipi-cfm-data-types:cfm_relative_time_t
   |    +---w start-time           string
   |    +---w stop-time-type       ipi-cfm-data-types:cfm_relative_time_t
   |    +---w stop-time            string
   |    +---w repetition-period    yang:timeticks
   +---x cfm-l2-eth-dm-on-demand-start-relative-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   | +---w input
   |    +---w md-name              string
   |    +---w ma-name              string
   |    +---w mep-id               uint16
   |    +---w profile-name         string
   |    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
   |    +---w start-time-type      ipi-cfm-data-types:cfm_relative_time_t
   |    +---w start-time           string
   |    +---w stop-time-type       ipi-cfm-data-types:cfm_absolute_time_t
   |    +---w stop-time            string
   |    +---w repetition-period    yang:timeticks
   +---x cfm-l2-eth-dm-on-demand-start-absolute-stop-none {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
```


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```
  | +---w input
  |    +---w md-name              string
  |    +---w ma-name              string
  |    +---w mep-id               uint16
  |    +---w profile-name         string
  |    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
  |    +---w start-time-type      ipi-cfm-data-types:cfm_absolute_time_t
  |    +---w start-time           string
  |    +---w stop-time-type       ipi-cfm-data-types:cfm_stop_time_none_t
  |    +---w repetition-period    yang:timeticks
  +---x cfm-l2-eth-dm-on-demand-start-absolute-stop-relative {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  | +---w input
  |    +---w md-name              string
  |    +---w ma-name              string
  |    +---w mep-id               uint16
  |    +---w profile-name         string
  |    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
  |    +---w start-time-type      ipi-cfm-data-types:cfm_absolute_time_t
  |    +---w start-time           string
  |    +---w stop-time-type       ipi-cfm-data-types:cfm_relative_time_t
  |    +---w stop-time            string
  |    +---w repetition-period    yang:timeticks
  +---x cfm-l2-eth-dm-on-demand-start-absolute-stop-absolute {feature-list:HAVE_CFM_Y1731,feature-
list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
  | +---w input
  |    +---w md-name              string
  |    +---w ma-name              string
  |    +---w mep-id               uint16
  |    +---w profile-name         string
  |    +---w rmep-id              ipi-cfm-data-types:cfm_rmep_type_t
  |    +---w start-time-type      ipi-cfm-data-types:cfm_absolute_time_t
  |    +---w start-time           string
  |    +---w stop-time-type       ipi-cfm-data-types:cfm_absolute_time_t
  |    +---w stop-time            string
  |    +---w repetition-period    yang:timeticks
```

```
   +---x cfm-l2-abort-eth-dm-test {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   |  +---w input
   |     +---w md-name    string
   |     +---w ma-name    string
   |     +---w mep-id     uint16
   +---x cfm-l2-clear-eth-dm-history-stats {feature-list:HAVE_CFM_Y1731,feature-list:HAVE_CFM,feature-
list:HAVE_ONMD,feature-list:Y1731_HW_OFFLOAD_OR_HAVE_SWFWDR}?
   |  +---w input
   |     +---w md-name    string
   |     +---w ma-name    string
   |     +---w mep-id     uint16
   +---x cfm-l2-clear-eth-csf-stats {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w mep-id     uint16
   |     +---w md-name    string
   |     +---w ma-name    string
   +---x cfm-l2-clear-eth-bn-stats {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w mep-id     uint16
   |     +---w md-name    string
   |     +---w ma-name    string
   +---x cfm-l2-clear-eth-lck-stats {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w mep-id     uint16
   |     +---w md-name    string
   |     +---w ma-name    string
   +---x cfm-l2-clear-eth-test-signal-stats {feature-list:Y1731_HW_OFFLOAD}?
   |  +---w input
   |     +---w md-name       string
   |     +---w ma-name       string
   |     +---w mep-id        uint16
   |     +---w stats-type    ipi-cfm-data-types:cfm_test_stats_type_t
   +---x cfm-l2-clear-ethernet-remote-meps {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
   |  +---w input
   |     +---w domain-name    string
   +---x cfm-clear-all-mep-stats {feature-list:HAVE_CFM}?
```


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```
  +---x cfm-l2-clear-mep-stats {feature-list:HAVE_CFM}?
  |  +---w input
  |     +---w domain-name    string
  |     +---w mep-id         uint16
  |     +---w ma-name        string
  +---x cfm-snmp-restart {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
  +---x cfm-terminal-debug-on {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-cfm-data-types:cfm_debug_t
  +---x cfm-terminal-debug-off {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-cfm-data-types:cfm_debug_t
  +---x cfm-l2-test-loopback {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w md-name        string
  |     +---w ma-name        string
  |     +---w mep-id         uint16
  |     +---w mac-address    ipi-cfm-data-types:cfm_lb_mac_addr_t
  +---x cfm-l2-test-linktrace {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?
  |  +---w input
  |  |  +---w md-name        string
  |  |  +---w ma-name        string
  |  |  +---w mep-id         uint16
  |  |  +---w mac-address    ipi-cfm-data-types:cfm_lb_mac_addr_t
  |  +--ro output
  |     +--ro transaction-id    uint32
  +---x cfm-l2-clear-linktrace-cache {feature-list:HAVE_CFM,feature-list:HAVE_ONMD}?

notifications:
  +---n cfm-l2-mep-ccm-highest-fault-info {feature-list:HAVE_CFM}?
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro mep-id?                      uint16
  |  +--ro ma-name?                     string
  |  +--ro md-name?                     string
  |  +--ro highest-priority-defect-found?   ipi-cfm-data-types:cfm_mep_highest_fault_defect_t
```

```
  +---n cfm-l2-ethernet-loopback-test-completed {feature-list:HAVE_CFM}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro mep-id?               uint16
  |  +--ro ma-name?              string
  |  +--ro md-name?              string
  |  +--ro target-mac-address?   ipi-cfm-data-types:cfm_rmep_mac_addr_t
  +---n cfm-l2-ethernet-linktrace-test-completed {feature-list:HAVE_CFM}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro transaction-id?       uint32
  |  +--ro mep-id?               uint16
  |  +--ro ma-name?              string
  |  +--ro md-name?              string
  |  +--ro target-mac-address?   ipi-cfm-data-types:cfm_rmep_mac_addr_t
  +---n cfm-mep-evpn-ccm-defect-condition
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro remote-mep-id?             uint32
  |  +--ro mep-id?                    uint16
  |  +--ro ma-name?                   string
  |  +--ro md-name?                   string
  |  +--ro last-good-sequence-number?   uint32
  |  +--ro last-flapped-time?         yang:date-and-time
  |  +--ro flow-state?                ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
  |  +--ro last-good-flow-id?         uint32
  +---n cfm-mep-evpn-ccm-defect-cleared
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro remote-mep-id?             uint32
  |  +--ro mep-id?                    uint16
  |  +--ro ma-name?                   string
  |  +--ro md-name?                   string
  |  +--ro first-good-sequence-number?   uint32
  |  +--ro last-recovered-time?       yang:date-and-time
  |  +--ro flow-state?                ipi-cfm-data-types:cfm_nvo_oam_ccm_flow_status_t
```


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```
  |  +--ro last-recovered-flow-id?       uint32
  +---n cfm-eth-csf-los-set {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
  |  +--ro severity?       cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?     cml-data-types:cml_notif_class_t
  |  +--ro mep-id?         uint16
  |  +--ro ma-name?        string
  |  +--ro md-name?        string
  |  +--ro signal-state?   ipi-cfm-data-types:cfm_bn_csf_signal_state_t
  +---n cfm-eth-csf-los-reset {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
  |  +--ro severity?       cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?     cml-data-types:cml_notif_class_t
  |  +--ro mep-id?         uint16
  |  +--ro ma-name?        string
  |  +--ro md-name?        string
  |  +--ro signal-state?   ipi-cfm-data-types:cfm_bn_csf_signal_state_t
  +---n cfm-eth-bnm-bw-update {feature-list:HAVE_CFM,feature-list:Y1731_HW_OFFLOAD}?
     +--ro severity?            cml-data-types:cml_notif_severity_t
     +--ro eventClass?          cml-data-types:cml_notif_class_t
     +--ro mep-id?              uint16
     +--ro ma-name?             string
     +--ro md-name?             string
     +--ro nominal-bandwidth?   string
     +--ro current-bandwidth?   string
```

ipi-cross-connect

```
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:
  +--rw cross-connect
     +--rw config
     |  +--rw xc-name?         -> /ipi-network-instance:network-instances/network-instance/instance-name
     |  +--rw description?     cml-data-types:cml_line_t
     |  +--rw admin-disable?   empty
     +--ro state
     |  +--ro xc-name?            -> /ipi-network-instance:network-instances/network-instance/instance-name
```

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```
    |  +--ro description?         cml-data-types:cml_line_t
    |  +--ro admin-disable?       empty
    |  +--ro operational-state?   ipi-cross-connect-types:xc_oper_status_t
    +--rw cross-connect-interfaces
      +--rw cross-connect-interface* [endpoint-if] {feature-list:NOT_HAVE_CUSTOM1_SUBINTERFACE}?
        +--rw endpoint-if    -> ../config/endpoint-if
        +--rw config
        |  +--rw endpoint-if?       -> /ipi-interface:interfaces/interface/name
        |  +--rw endpoint-if-bkp?   string {feature-list:HAVE_DUNE}?
        |  +--rw evc-name?          string {feature-list:HAVE_DUNE}?
        +--ro state
          +--ro endpoint-if?       -> /ipi-interface:interfaces/interface/name
          +--ro endpoint-if-bkp?   string {feature-list:HAVE_DUNE}?
          +--ro evc-name?          string {feature-list:HAVE_DUNE}?
```

ipi-crypto

```
 +--rw crypto
   +--rw global
     +--rw config
     |  +--rw key-encryption?   ipi-crypto-types:crypto_cipher_types_t
     +--ro state
       +--ro key-encryption?   ipi-crypto-types:crypto_cipher_types_t

 rpcs:
  +---x crypto-rsa-key-gen {feature-list:HAVE_HOSTPD}?
  |  +---w input
  |     +---w ipv4-addr    inet:ipv4-address
  +---x crypto-rsa-load-cert {feature-list:HAVE_HOSTPD}?
     +---w input
       +---w source-interface    string
       +---w url                 inet:uri
```


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ipi-delay-profile

```
+--rw delay-profiles
  +--rw delay-profile* [profile-type]
  |  +--rw profile-type                -> ../config/profile-type
  |  +--rw config
  |  |  +--rw profile-type?   ipi-delay-profile-types:delay_profile_type_t
  |  +--ro state
  |  |  +--ro profile-type?   ipi-delay-profile-types:delay_profile_type_t
  |  +--rw profile-parameters
  |  |  +--rw config
  |  |  |  +--rw mode?             ipi-delay-profile-types:delay_profile_measurement_mode_t
  |  |  |  +--rw sender-port?      uint16
  |  |  |  +--rw burst-interval?   uint16
  |  |  |  +--rw burst-count?      uint8
  |  |  |  +--rw interval?         uint16
  |  |  +--ro state
  |  |     +--ro mode?             ipi-delay-profile-types:delay_profile_measurement_mode_t
  |  |     +--ro sender-port?      uint16
  |  |     +--ro burst-interval?   uint16
  |  |     +--ro burst-count?      uint8
  |  |     +--ro interval?         uint16
  |  +--rw periodic-advertisement
  |  |  +--rw config
  |  |  |  +--rw disable?          empty
  |  |  |  +--rw threshold?        uint8
  |  |  |  +--rw minimum-change?   uint16
  |  |  +--ro state
  |  |     +--ro disable?          empty
  |  |     +--ro threshold?        uint8
  |  |     +--ro minimum-change?   uint16
  |  +--rw accelerated-advertisement
  |  |  +--rw config!
  |  |  |  +--rw enable            empty
  |  |  |  +--rw threshold?        uint8
  |  |  |  +--rw minimum-change?   uint16
```

```
  | |  +--ro state
  | |     +--ro enable            empty
  | |     +--ro threshold?        uint8
  | |     +--ro minimum-change?   uint16
  |  +--rw notifications {feature-list:HAVE_TE}?
  |     +--rw config!
  |     |  +--rw enabled           empty
  |     |  +--rw threshold?        uint8
  |     |  +--rw minimum-change?   uint16
  |     +--ro state
  |        +--ro enabled           empty
  |        +--ro threshold?        uint8
  |        +--ro minimum-change?   uint16
    +--rw delay-profile-clients
      +--rw config!
      |  +--rw delay-profile-enable    empty
      |  +--rw burst-interval?         uint16
      |  +--rw burst-count?            uint8
      +--ro state
        +--ro delay-profile-enable    empty
        +--ro burst-interval?         uint16
        +--ro burst-count?            uint8
```

ipi-dhcp

```
  +--rw dhcp
    +--rw global
    |  +--rw config
```


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```
| | +--rw disable-dhcp-feature?   empty
| +--ro state
|    +--ro disable-dhcp-feature?   empty
+--rw option82-templates
| +--rw option82-template* [template-name]
|    +--rw template-name    -> ../config/template-name
|    +--rw config
|    | +--rw template-name?   string
|    | +--rw policy-action?   ipi-dhcp-types:dhcp_option82_template_policy_t
|    | +--rw circuit-id?      ipi-dhcp-types:dhcp_option82_template_circuit_id_union_t
|    | +--rw remote-id?       ipi-dhcp-types:dhcp_option82_template_remote_id_union_t
|    +--ro state
|       +--ro template-name?   string
|       +--ro policy-action?   ipi-dhcp-types:dhcp_option82_template_policy_t
|       +--ro circuit-id?      ipi-dhcp-types:dhcp_option82_template_circuit_id_union_t
|       +--ro remote-id?       ipi-dhcp-types:dhcp_option82_template_remote_id_union_t
+--rw relay
| +--rw global
| | +--rw config
| | | +--rw disable-dhcpv4-relay?   empty
| | | +--rw disable-dhcpv6-relay?   empty
| | +--ro state
| |    +--ro disable-dhcpv4-relay?   empty
| |    +--ro disable-dhcpv6-relay?   empty
| +--rw interfaces
| | +--rw interface* [name]
| |    +--rw name      -> ../config/name
| |    +--rw config
| |    | +--rw name?                  -> /ipi-interface:interfaces/interface/name
| |    | +--rw ipv4-relay-interface?    empty
| |    | +--rw gi-addr?                 inet:ipv4-address
| |    | +--rw src-ip-addr?              empty
| |    | +--rw ipv4-uplink-interface?   empty
| |    | +--rw ipv4-group-name?         string
| |    | +--rw ipv6-relay-interface?    empty {feature-list:HAVE_IPV6}?
| |    | +--rw ipv6-gi-addr?            inet:ipv6-address
```

```
    | |    | +--rw ipv6-src-addr?           empty
    | |    | +--rw ipv6-uplink-interface?   empty {feature-list:HAVE_IPV6}?
    | |    | +--rw ipv6-group-name?         string
    | |    +--ro state
    | |      +--ro name?                   -> /ipi-interface:interfaces/interface/name
    | |      +--ro ipv4-relay-interface?    empty
    | |      +--ro gi-addr?                inet:ipv4-address
    | |      +--ro src-ip-addr?             empty
    | |      +--ro ipv4-uplink-interface?   empty
    | |      +--ro ipv4-group-name?         string
    | |      +--ro ipv6-relay-interface?    empty {feature-list:HAVE_IPV6}?
    | |      +--ro ipv6-gi-addr?            inet:ipv6-address
    | |      +--ro ipv6-src-addr?           empty
    | |      +--ro ipv6-uplink-interface?   empty {feature-list:HAVE_IPV6}?
    | |      +--ro ipv6-group-name?         string
    | +--rw vrfs
    |    +--rw vrf* [vrf-name]
    |      +--rw vrf-name                   -> ../config/vrf-name
    |      +--rw config
    |      | +--rw vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
    |      | +--rw link-selection-source-ip?          inet:ipv4-address
    |      | +--rw enable-option82?                   empty
    |      | +--rw enable-option82-always-on?         empty
    |      | +--rw enable-dhcpv6-pd-route-injection?   empty {feature-list:HAVE_IPV6}?
    |      | +--rw enable-dhcpv6-duplicate-clients?    empty {feature-list:HAVE_IPV6}?
    |      | +--rw remote-id?                         ipi-dhcp-relay-types:dhcp_remote_id_t
    |      | +--rw ipv4-subscriber-id?                string
    |      | +--rw subscriber-id?                     string
    |      | +--rw option82-template-name?            -> /dhcp/option82-templates/option82-template/config/template-name
    |      +--ro state
    |      | +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
    |      | +--ro link-selection-source-ip?          inet:ipv4-address
    |      | +--ro enable-option82?                   empty
    |      | +--ro enable-option82-always-on?         empty
    |      | +--ro enable-dhcpv6-pd-route-injection?   empty {feature-list:HAVE_IPV6}?
```


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```
|       | +--ro enable-dhcpv6-duplicate-clients?    empty {feature-list:HAVE_IPV6}?
|       | +--ro remote-id?                          ipi-dhcp-relay-types:dhcp_remote_id_t
|       | +--ro ipv4-subscriber-id?                 string
|       | +--ro subscriber-id?                      string
|       | +--ro option82-template-name?             -> /dhcp/option82-templates/option82-template/config/template-name
|       | +--ro bogus-giaddr-drops?                 uint32
|       | +--ro client-packets-relayed?             uint32
|       | +--ro server-packet-errors?               uint32
|       | +--ro server-packets-relayed?             uint32
|       | +--ro client-packet-errors?               uint32
|       | +--ro agent-option-errors?                uint32
|       | +--ro corrupt-agent-options?              uint32
|       | +--ro missing-agent-option?               uint32
|       | +--ro bad-circuit-id?                     uint32
|       | +--ro missing-circuit-id?                 uint32
|       | +--ro circuit-id?                         string
|       +--rw ipv4-vpn-links
|       | +--rw ipv4-vpn-link* [interface-type]
|       |    +--rw interface-type    -> ../config/interface-type
|       |    +--rw config
|       |    | +--rw interface-type?       ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|       |    | +--rw interface-direction    ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|       |    +--ro state
|       |       +--ro interface-type?       ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|       |       +--ro interface-direction    ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|       +--rw ipv6-vpn-links
|       | +--rw ipv6-vpn-link* [interface-type-v6] {feature-list:HAVE_IPV6}?
|       |    +--rw interface-type-v6    -> ../config/interface-type-v6
|       |    +--rw config
|       |    | +--rw interface-type-v6?       ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|       |    | +--rw interface-direction-v6    ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|       |    +--ro state
|       |       +--ro interface-type-v6?       ipi-dhcp-relay-types:dhcp_vpn_interface_type_t
|       |       +--ro interface-direction-v6    ipi-dhcp-relay-types:dhcp_vpn_interface_direction_t
|       +--ro dhcpv6-delegated-prefixes* [interface-name] {feature-list:HAVE_IPV6}?
|       | +--ro interface-name    -> ../state/interface-name
```

```
|       | +--ro state
|       |    +--ro interface-name?       string
|       |    +--ro next-hop?            inet:ipv6-address
|       |    +--ro prefix?              cml-data-types:cml_ipv6_prefix_t
|       |    +--ro preferred-lifetime?   uint32
|       |    +--ro maximum-lifetime?     uint32
|       |    +--ro prefix-start-time?    yang:date-and-time
|       |    +--ro prefix-expiry-time?   yang:date-and-time
|       |    +--ro state?               ipi-dhcp-relay-types:dhcp6_pd_route_state_t
|       +--rw ipv4-dhcp-servers
|       | +--rw ipv4-dhcp-server* [ip-address]
|       |    +--rw ip-address    -> ../config/ip-address
|       |    +--rw config
|       |    | +--rw ip-address?                inet:ipv4-address
|       |    | +--rw dhcpv4-server-global-vrf?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|       |    +--ro state
|       |       +--ro ip-address?                inet:ipv4-address
|       |       +--ro dhcpv4-server-global-vrf?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|       +--rw ipv6-dhcp-servers {feature-list:HAVE_IPV6}?
|       | +--rw ipv6-dhcp-server* [ipv6-address]
|       |    +--rw ipv6-address    -> ../config/ipv6-address
|       |    +--rw config
|       |    | +--rw ipv6-address?               inet:ipv6-address {feature-list:HAVE_IPV6}?
|       |    | +--rw dhcpv6-server-global-vrf?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|       |    +--ro state
|       |       +--ro ipv6-address?               inet:ipv6-address {feature-list:HAVE_IPV6}?
|       |       +--ro dhcpv6-server-global-vrf?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/
config/vrf-name
|       +--rw dhcp-groups
|       | +--rw dhcp-group* [group-name]
|       |    +--rw group-name    -> ../config/group-name
|       |    +--rw config
|       |    | +--rw group-name?   string
|       |    | +--rw server*       inet:ipv4-address
|       |    +--ro state
```


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```
|       |       +--ro group-name?   string
|       |       +--ro server*       inet:ipv4-address
|       +--rw dhcpv6-groups {feature-list:HAVE_IPV6}?
|         +--rw dhcpv6-group* [group6-name]
|           +--rw group6-name    -> ../config/group6-name
|           +--rw config
|           | +--rw group6-name?   string
|           | +--rw server*       inet:ipv6-address
|           +--ro state
|             +--ro group6-name?   string
|             +--ro server*       inet:ipv6-address
+--rw client
| +--rw interfaces
|   +--rw interface* [name]
|     +--rw name                   -> ../config/name
|     +--rw config
|     | +--rw name?                    -> /ipi-interface:interfaces/interface/name
|     | +--rw request-ipv4-dns?          empty
|     | +--rw request-log-server?        empty {feature-list:HAVE_SYSLOG}?
|     | +--rw request-host-name?         empty
|     | +--rw request-ntp-server?        empty {feature-list:HAVE_HOSTP_NTP}?
|     | +--rw request-ipv6-dns?          empty {feature-list:HAVE_IPV6}?
|     | +--rw request-ipv6-domain-list?  empty {feature-list:HAVE_IPV6}?
|     | +--rw request-ipv6-ntp-server?   empty {feature-list:HAVE_IPV6}?
|     | +--rw request-ipv6-rapid-commit? empty {feature-list:HAVE_IPV6}?
|     | +--rw request-ipv6-vendor-opts?  empty {feature-list:HAVE_IPV6}?
|     | +--rw ipv6-information-request?  empty {feature-list:HAVE_IPV6}?
|     | +--rw ipv6-dad-wait-time?        uint16 {feature-list:HAVE_IPV6}?
|     | +--rw ipv6-client-duid-type?     cml-data-types:dhcp6_duid_type_t {feature-list:HAVE_IPV6}?
|     | +--rw ipv6-max-delegated-prefix? uint16 {feature-list:HAVE_IPV6}?
|     | +--rw request-ipv6-prefix?       string {feature-list:HAVE_IPV6}?
|     +--ro state
|     | +--ro name?                    -> /ipi-interface:interfaces/interface/name
|     | +--ro request-ipv4-dns?          empty
|     | +--ro request-log-server?        empty {feature-list:HAVE_SYSLOG}?
|     | +--ro request-host-name?         empty
```

```
|       | +--ro request-ntp-server?          empty {feature-list:HAVE_HOSTP_NTP}?
|       | +--ro request-ipv6-dns?            empty {feature-list:HAVE_IPV6}?
|       | +--ro request-ipv6-domain-list?    empty {feature-list:HAVE_IPV6}?
|       | +--ro request-ipv6-ntp-server?     empty {feature-list:HAVE_IPV6}?
|       | +--ro request-ipv6-rapid-commit?   empty {feature-list:HAVE_IPV6}?
|       | +--ro request-ipv6-vendor-opts?    empty {feature-list:HAVE_IPV6}?
|       | +--ro ipv6-information-request?    empty {feature-list:HAVE_IPV6}?
|       | +--ro ipv6-dad-wait-time?          uint16 {feature-list:HAVE_IPV6}?
|       | +--ro ipv6-client-duid-type?       cml-data-types:dhcp6_duid_type_t {feature-list:HAVE_IPV6}?
|       | +--ro ipv6-max-delegated-prefix?   uint16 {feature-list:HAVE_IPV6}?
|       | +--ro request-ipv6-prefix?         string {feature-list:HAVE_IPV6}?
|       +--rw prefix-ipv6-addresses {feature-list:HAVE_IPV6}?
|       | +--rw prefix-ipv6-address* [prefix-name suffix-ipv6-addr]
|       |    +--rw prefix-name         -> ../config/prefix-name
|       |    +--rw suffix-ipv6-addr    -> ../config/suffix-ipv6-addr
|       |    +--rw config
|       |    | +--rw prefix-name?        string
|       |    | +--rw suffix-ipv6-addr?   string
|       |    +--ro state
|       |       +--ro prefix-name?        string
|       |       +--ro suffix-ipv6-addr?   string
|       +--ro learned-prefixes* [learnt-prefix] {feature-list:HAVE_IPV6}?
|          +--ro learnt-prefix    cml-data-types:cml_ipv6_prefix_t
|          +--ro state
|             +--ro learnt-prefix?        cml-data-types:cml_ipv6_prefix_t
|             +--ro max-lifetime?         uint32
|             +--ro preferred-lifetime?   uint32
+--rw server
| +--rw interfaces
| | +--rw interface* [name]
| |    +--rw name      -> ../config/name
| |    +--rw config
| |    | +--rw name?                -> /ipi-interface:interfaces/interface/name
| |    | +--rw enable-ipv4-server?   empty
| |    | +--rw enable-ipv6-server?   empty {feature-list:HAVE_IPV6}?
| |    +--ro state
```


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```
    | |       +--ro name?                -> /ipi-interface:interfaces/interface/name
    | |       +--ro enable-ipv4-server?   empty
    | |       +--ro enable-ipv6-server?   empty {feature-list:HAVE_IPV6}?
    |  +--rw vrfs
    |    +--rw vrf* [vrf-name]
    |       +--rw vrf-name       -> ../config/vrf-name
    |       +--rw config
    |       |  +--rw vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |       |  +--rw rapid-commit?         empty
    |       |  +--rw preference?           empty
    |       |  +--rw max-lease-time?       int32
    |       |  +--rw default-lease-time?   int32
    |       +--ro state
    |       |  +--ro vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |       |  +--ro rapid-commit?         empty
    |       |  +--ro preference?           empty
    |       |  +--ro max-lease-time?       int32
    |       |  +--ro default-lease-time?   int32
    |       +--rw dhcp-pools
    |       |  +--rw dhcp-pool* [pool-name]
    |       |     +--rw pool-name    -> ../config/pool-name
    |       |     +--rw config
    |       |     |  +--rw pool-name?              string
    |       |     |  +--rw host-name?              string
    |       |     |  +--rw routers?               inet:ipv4-address
    |       |     |  +--rw ntp-server*             inet:ipv4-address
    |       |     |  +--rw boot-file?             string
    |       |     |  +--rw tftp-server?            inet:ipv4-address
    |       |     |  +--rw log-server*             inet:ipv4-address
    |       |     |  +--rw dns-server*             inet:ipv4-address
    |       |     |  +--rw network?               inet:ipv4-address
    |       |     |  +--rw netmask?                inet:ipv4-address
    |       |     |  +--rw low-address-in-range?    inet:ipv4-address
    |       |     |  +--rw high-address-in-range?   inet:ipv4-address
    |       |     +--ro state
    |       |        +--ro pool-name?              string
```

```
|       |       +--ro host-name?              string
|       |       +--ro routers?                inet:ipv4-address
|       |       +--ro ntp-server*             inet:ipv4-address
|       |       +--ro boot-file?              string
|       |       +--ro tftp-server?            inet:ipv4-address
|       |       +--ro log-server*             inet:ipv4-address
|       |       +--ro dns-server*             inet:ipv4-address
|       |       +--ro network?                inet:ipv4-address
|       |       +--ro netmask?                inet:ipv4-address
|       |       +--ro low-address-in-range?   inet:ipv4-address
|       |       +--ro high-address-in-range?  inet:ipv4-address
|       +--rw dhcp6-pools {feature-list:HAVE_IPV6}?
|         +--rw dhcp6-pool* [pool6-name]
|           +--rw pool6-name    -> ../config/pool6-name
|           +--rw config
|           | +--rw pool6-name?                string
|           | +--rw domain-name?               string
|           | +--rw vendor-options?            cml-data-types:cml_line_t
|           | +--rw ntp-server*                inet:ipv6-address
|           | +--rw dns-server*                inet:ipv6-address
|           | +--rw ipv6-network?              inet:ipv6-address
|           | +--rw ipv6-netmask?              uint8
|           | +--rw low-address-in-range?      inet:ipv6-address
|           | +--rw high-address-in-range?     inet:ipv6-address
|           | +--rw temporary-address?         inet:ipv6-address
|           | +--rw ipv6-prefix-high-address?  inet:ipv6-address
|           | +--rw ipv6-prefix-low-address?   inet:ipv6-address
|           | +--rw ipv6-prefix-netmask?       uint8
|           +--ro state
|             +--ro pool6-name?                string
|             +--ro domain-name?               string
|             +--ro vendor-options?            cml-data-types:cml_line_t
|             +--ro ntp-server*                inet:ipv6-address
|             +--ro dns-server*                inet:ipv6-address
|             +--ro ipv6-network?              inet:ipv6-address
|             +--ro ipv6-netmask?              uint8
```


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```
|              +--ro low-address-in-range?       inet:ipv6-address
|              +--ro high-address-in-range?      inet:ipv6-address
|              +--ro temporary-address?          inet:ipv6-address
|              +--ro ipv6-prefix-high-address?   inet:ipv6-address
|              +--ro ipv6-prefix-low-address?    inet:ipv6-address
|              +--ro ipv6-prefix-netmask?        uint8
+--rw snooping
  +--rw debug
  | +--rw config
  | | +--rw options?   ipi-dhcp-snooping-types:dhcp_snooping_debug_t
  | +--ro state
  |   +--ro options?                ipi-dhcp-snooping-types:dhcp_snooping_debug_t
  |   +--ro terminal-debug-status?   ipi-dhcp-snooping-types:dhcp_snooping_debug_t
  +--rw snooping-bridges
  | +--rw snooping-bridge* [bridge-id]
  |   +--rw bridge-id                       -> ../config/bridge-id
  |   +--rw config!
  |   | +--rw snooping-enable       empty
  |   | +--rw bridge-id?            -> /ipi-network-instance:network-instances/network-instance/instance-name
  |   | +--rw verify-mac-address?   empty
  |   | +--rw option-82-enable?     empty
  |   | +--rw write-delay?          uint32
  |   | +--rw strict-validation?    empty
  |   +--ro state
  |   | +--ro snooping-enable       empty
  |   | +--ro bridge-id?            -> /ipi-network-instance:network-instances/network-instance/instance-name
  |   | +--ro verify-mac-address?   empty
  |   | +--ro option-82-enable?     empty
  |   | +--ro write-delay?          uint32
  |   | +--ro strict-validation?    empty
  |   +--rw arp-inspection
  |   | +--rw config!
  |   | | +--rw enable          empty
  |   | | +--rw validate-mac?   ipi-dhcp-snooping-types:dhcp_snooping_validation_t
  |   | | +--rw vlan-range?     cml-data-types:cml_range_t
  |   | +--ro state
```

```
|    |    +--ro enable          empty
|    |    +--ro validate-mac?   ipi-dhcp-snooping-types:dhcp_snooping_validation_t
|    |    +--ro vlan-range?     cml-data-types:cml_range_t
|    |    +--ro counters
|    |      +--ro forwarded?   yang:counter32
|    |      +--ro dropped?     yang:counter32
|    +--rw vlan-option82-template-mappings
|    |  +--rw vlan-option82-template-mapping* [vlan-range]
|    |    +--rw vlan-range    -> ../config/vlan-range
|    |    +--rw config!
|    |    |  +--rw option82-template-name?   string
|    |    |  +--rw vlan-range?               cml-data-types:cml_range_t
|    |    +--ro state
|    |      +--ro option82-template-name?   string
|    |      +--ro vlan-range?               cml-data-types:cml_range_t
|    +--rw vlans
|      +--rw vlan* [vlan-id]
|        +--rw vlan-id                 -> ../config/vlan-id
|        +--rw config
|        |  +--rw vlan-id?   uint16
|        +--ro state
|        |  +--ro vlan-id?      uint16
|        |  +--ro statistics
|        |    +--ro static-entries-ipv4?    yang:counter32
|        |    +--ro dynamic-entries-ipv4?   yang:counter32
|        |    +--ro static-entries-ipv6?    yang:counter32 {feature-list:HAVE_IPV6}?
|        |    +--ro dynamic-entries-ipv6?   yang:counter32 {feature-list:HAVE_IPV6}?
|        +--rw mac-addresses-ipv4
|        |  +--rw mac-address-ipv4* [mac-address]
|        |    +--rw mac-address    -> ../config/mac-address
|        |    +--rw config
|        |    |  +--rw mac-address?    cml-data-types:cml_mac_addr_t
|        |    |  +--rw ipv4-address    inet:ipv4-address
|        |    |  +--rw if-name         -> /ipi-interface:interfaces/interface/name
|        |    +--ro state
|        |      +--ro mac-address?    cml-data-types:cml_mac_addr_t
```


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```
|       |       +--ro ipv4-address    inet:ipv4-address
|       |       +--ro if-name         -> /ipi-interface:interfaces/interface/name
|       +--rw mac-addresses-ipv6 {feature-list:HAVE_IPV6}?
|       | +--rw mac-address-ipv6* [mac-address]
|       |    +--rw mac-address    -> ../config/mac-address
|       |    +--rw config
|       |    | +--rw mac-address?    cml-data-types:cml_mac_addr_t
|       |    | +--rw ipv6-address    inet:ipv6-address
|       |    | +--rw if-name         -> /ipi-interface:interfaces/interface/name
|       |    +--ro state
|       |       +--ro mac-address?    cml-data-types:cml_mac_addr_t
|       |       +--ro ipv6-address    inet:ipv6-address
|       |       +--ro if-name         -> /ipi-interface:interfaces/interface/name
|       +--ro snooping-binding-info
|         +--ro ipv4* [mac-address ip-address]
|         | +--ro mac-address    -> ../state/mac-address
|         | +--ro ip-address     -> ../state/ip-address
|         | +--ro state
|         |    +--ro mac-address?   cml-data-types:cml_mac_addr_t
|         |    +--ro lease-time?    uint32
|         |    +--ro type?          ipi-dhcp-snooping-types:dhcp_snooping_binding_type_t
|         |    +--ro if-name?       string
|         |    +--ro ip-address?    inet:ipv4-address
|         +--ro ipv6* [mac-address ip-address] {feature-list:HAVE_IPV6}?
|           +--ro mac-address    -> ../state/mac-address
|           +--ro ip-address     -> ../state/ip-address
|           +--ro state
|              +--ro mac-address?   cml-data-types:cml_mac_addr_t
|              +--ro lease-time?    uint32
|              +--ro type?          ipi-dhcp-snooping-types:dhcp_snooping_binding_type_t
|              +--ro if-name?       string
|              +--ro ip-address?    inet:ipv6-address
+--rw interfaces
  +--rw interface* [name]
     +--rw name                   -> ../config/name
     +--rw config
```

```
|  +--rw name?   -> /ipi-interface:interfaces/interface/name
+--ro state
|  +--ro name?   -> /ipi-interface:interfaces/interface/name
+--rw trust
|  +--rw config
|  |  +--rw snooping-trust?   empty
|  +--ro state
|     +--ro snooping-trust?   empty
+--rw verify
|  +--rw config!
|  |  +--rw verify-snooping-vlan        empty
|  |  +--rw verify-access-group-mode?   empty
|  +--ro state
|     +--ro verify-snooping-vlan        empty
|     +--ro verify-access-group-mode?   empty
+--ro snooping-binding-info
|  +--ro ipv4-entries
|  |  +--ro ipv4-entry* [ip-address]
|  |     +--ro ip-address    -> ../state/ip-address
|  |     +--ro state
|  |        +--ro interface?     string
|  |        +--ro filter-type?   ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
|  |        +--ro vlan-id?       uint16
|  |        +--ro mac-address?   cml-data-types:cml_mac_addr_t
|  |        +--ro ip-address?    inet:ipv4-address
|  +--ro ipv6-entries {feature-list:HAVE_IPV6}?
|     +--ro ipv6-entry* [ip-address]
|        +--ro ip-address    -> ../state/ip-address
|        +--ro state
|           +--ro interface?     string
|           +--ro filter-type?   ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
|           +--ro vlan-id?       uint16
|           +--ro mac-address?   cml-data-types:cml_mac_addr_t
|           +--ro ip-address?    inet:ipv6-address
+--ro source-binding-info
   +--ro ipv4-entries
```


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```
|  +--ro ipv4-entry* [ip-address]
|     +--ro ip-address    -> ../state/ip-address
|     +--ro state
|        +--ro interface?     string
|        +--ro filter-type?   ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
|        +--ro vlan-id?       uint16
|        +--ro mac-address?   cml-data-types:cml_mac_addr_t
|        +--ro ip-address?    inet:ipv4-address
+--ro ipv6-entries {feature-list:HAVE_IPV6}?
   +--ro ipv6-entry* [ip-address]
      +--ro ip-address    -> ../state/ip-address
      +--ro state
         +--ro interface?     string
         +--ro filter-type?   ipi-dhcp-snooping-types:dhcp_snooping_filter_type_t
         +--ro vlan-id?       uint16
         +--ro mac-address?   cml-data-types:cml_mac_addr_t
         +--ro ip-address?    inet:ipv6-address

 rpcs:
   +---x clear-relay-stats {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w vrf-name    string
   +---x clear-relay-option-stats {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w vrf-name    string
   +---x clear-dhcpv6-pd-route {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w vrf-name    string
   +---x dhcp-snooping-write-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w bridge-id    string
   +---x dhcp-snooping-renew-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
```

```
|     +---w bridge-id    string
   +---x dhcp-snooping-write-source-binding-database {feature-list:HAVE_DHCP_SNOOP,feature-
list:HAVE_L2,feature-list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w bridge-id    string
   +---x dhcp-snooping-renew-source-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w bridge-id    string
   +---x dhcp-snooping-clear-source-binding-database {feature-list:HAVE_DHCP_SNOOP,feature-
list:HAVE_L2,feature-list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w bridge-id    string
   +---x dhcp-snooping-clear-database {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w bridge-id    string
   +---x dhcp-snooping-terminal-debug-on {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
   |  +---w input
   |     +---w terminal-debug-options    ipi-dhcp-snooping-types:dhcp_snooping_debug_t
   +---x dhcp-snooping-terminal-debug-off {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_CLIENT_OR_HAVE_HOSTPD_OR_HAVE_DHCP_SNOOP}?
      +---w input
         +---w terminal-debug-options    ipi-dhcp-snooping-types:dhcp_snooping_debug_t


 notifications:
   +---n dhcpv6-relay-pd-route
      +--ro severity?         cml-data-types:cml_notif_severity_t
      +--ro eventClass?       cml-data-types:cml_notif_class_t
      +--ro vrf-name?         string
      +--ro interface-name?   string
      +--ro state?            ipi-dhcp-relay-types:dhcp6_pd_route_state_t
      +--ro prefix?           cml-data-types:cml_ipv6_prefix_t
      +--ro next-hop?         inet:ipv6-address
```


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ipi-dns-client

```
  +--rw dns
     +--rw vrfs
     |  +--rw vrf* [vrf-name]
     |     +--rw vrf-name          -> ../config/vrf-name
     |     +--rw config
     |     |  +--rw vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
     |     |  +--rw lookup-enabled?        empty
     |     |  +--rw default-domain-name?   inet:domain-name
     |     +--ro state
     |     |  +--ro vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
     |     |  +--ro lookup-enabled?        empty
     |     |  +--ro default-domain-name?   inet:domain-name
     |     +--rw servers
     |     |  +--rw server* [address]
     |     |     +--rw address    -> ../config/address
     |     |     +--rw config
     |     |     |  +--rw address?   inet:ip-address
     |     |     +--ro state
     |     |        +--ro address?   inet:ip-address
     |     +--rw search-domains
     |     |  +--rw search-domain* [domain-name]
     |     |     +--rw domain-name    -> ../config/domain-name
     |     |     +--rw config
     |     |     |  +--rw domain-name?   inet:domain-name
     |     |     +--ro state
     |     |        +--ro domain-name?   inet:domain-name
     |     +--rw host-entries
     |        +--rw host-entry* [hostname]
     |           +--rw hostname    -> ../config/hostname
     |           +--rw config
     |           |  +--rw hostname?       cml-data-types:cml_host_string_t
     |           |  +--rw ipv4-address?   inet:ipv4-address
     |           |  +--rw ipv6-address?   inet:ipv6-address {feature-list:HAVE_IPV6}?
```

```
|          +--ro state
|             +--ro hostname?       cml-data-types:cml_host_string_t
|             +--ro ipv4-address?   inet:ipv4-address
|             +--ro ipv6-address?   inet:ipv6-address {feature-list:HAVE_IPV6}?
+--rw debug
| +--rw config
| | +--rw enable?   empty
| +--ro state
|    +--ro enable?                 empty
|    +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
+--rw default-instance
   +--rw config
   | +--rw disable-default-instance?   empty
   +--ro state
      +--ro disable-default-instance?   empty

rpcs:
  +---x dns-client-terminal-debug-on {feature-list:HAVE_DNS_CLIENT}?
  +---x dns-client-terminal-debug-off {feature-list:HAVE_DNS_CLIENT}?
```

ipi-dns-relay

```
+--rw dns-relay
   +--rw config
   | +--rw enable-dns-feature?          boolean
   | +--rw enable-dnsv4-relay?          boolean
   | +--rw enable-dnsv6-relay?          boolean {feature-list:HAVE_IPV6}?
   | +--rw disable-dnssec-validation?   empty
   | +--rw dns-server-v4-addr*         inet:ipv4-address
   | +--rw dns-server-v6-addr*         inet:ipv6-address {feature-list:HAVE_IPV6}?
   +--ro state
   | +--ro enable-dns-feature?          boolean
   | +--ro enable-dnsv4-relay?          boolean
   | +--ro enable-dnsv6-relay?          boolean {feature-list:HAVE_IPV6}?
   | +--ro disable-dnssec-validation?   empty
   | +--ro dns-server-v4-addr*         inet:ipv4-address
```


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```
   |  +--ro dns-server-v6-addr*          inet:ipv6-address {feature-list:HAVE_IPV6}?
   +--rw interfaces
   |  +--rw interface* [name]
   |     +--rw name      -> ../config/name
   |     +--rw config
   |     |  +--rw name?                  -> /ipi-interface:interfaces/interface/name
   |     |  +--rw enable-dnsv4-relay?    empty
   |     |  +--rw enable-dnsv6-relay?    empty {feature-list:HAVE_IPV6}?
   |     |  +--rw dns-relay-uplink?      empty
   |     |  +--rw dns-relay-v6-uplink?   empty {feature-list:HAVE_IPV6}?
   |     +--ro state
   |        +--ro name?                  -> /ipi-interface:interfaces/interface/name
   |        +--ro enable-dnsv4-relay?    empty
   |        +--ro enable-dnsv6-relay?    empty {feature-list:HAVE_IPV6}?
   |        +--ro dns-relay-uplink?      empty
   |        +--ro dns-relay-v6-uplink?   empty {feature-list:HAVE_IPV6}?
   +--rw vrfs {feature-list:HAVE_VRF}?
      +--rw vrf* [vrf-name]
         +--rw vrf-name    -> ../config/vrf-name
         +--rw config
         |  +--rw vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
         |  +--rw disable-dnssec-validation?   empty
         |  +--rw dns-server-v4-addr*          inet:ipv4-address
         |  +--rw dns-server-v6-addr*          inet:ipv6-address {feature-list:HAVE_IPV6}?
         +--ro state
            +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
            +--ro disable-dnssec-validation?   empty
            +--ro dns-server-v4-addr*          inet:ipv4-address
            +--ro dns-server-v6-addr*          inet:ipv6-address {feature-list:HAVE_IPV6}?
```

ipi-docker

```
 +--rw docker
    +--rw config
```

```
  |  +--rw enable?   empty
  +--ro state
     +--ro enable?   empty
```

ipi-edpl

```
 +--rw edpl
   +--rw profiles
   |  +--rw profile* [name]
   |     +--rw name      -> ../config/name
   |     +--rw config
   |     |  +--rw name?                  string
   |     |  +--rw direction?             ipi-edpl-types:edpl_direction_t
   |     |  +--rw dst-mac?               cml-data-types:cml_mac_addr_t
   |     |  +--rw vlan-id?               uint16
   |     |  +--rw ip-swap?               empty
   |     |  +--rw udp-tcp-port-swap?      empty
   |     |  +--rw source-udp-port?        uint16
   |     |  +--rw destination-udp-port?   uint16
   |     |  +--rw ethertype?             string
   |     |  +--rw address-family?         ipi-edpl-types:edpl_addr_family_t
   |     |  +--rw src-ip?                inet:ip-address
   |     |  +--rw dst-ip?                inet:ip-address
   |     +--ro state
   |        +--ro name?                  string
   |        +--ro direction?             ipi-edpl-types:edpl_direction_t
   |        +--ro dst-mac?               cml-data-types:cml_mac_addr_t
   |        +--ro vlan-id?               uint16
   |        +--ro ip-swap?               empty
   |        +--ro udp-tcp-port-swap?      empty
   |        +--ro source-udp-port?        uint16
   |        +--ro destination-udp-port?   uint16
   |        +--ro ethertype?             string
   |        +--ro address-family?         ipi-edpl-types:edpl_addr_family_t
   |        +--ro src-ip?                inet:ip-address
```


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```
|       +--ro dst-ip?                inet:ip-address
+--rw tests
  +--rw test* [name]
     +--rw name         -> ../config/name
     +--rw config
     |  +--rw name?          string
     |  +--rw profile?       -> /edpl/profiles/profile/config/name
     |  +--rw source-port?   -> /ipi-interface:interfaces/interface/name
     |  +--rw l2-port?       -> /ipi-interface:interfaces/interface/name
     +--ro state
     |  +--ro name?          string
     |  +--ro profile?       -> /edpl/profiles/profile/config/name
     |  +--ro source-port?   -> /ipi-interface:interfaces/interface/name
     |  +--ro l2-port?       -> /ipi-interface:interfaces/interface/name
     +--rw timer
     |  +--rw config!
     |  |  +--rw duration    empty
     |  |  +--rw hours?      uint8
     |  |  +--rw minutes?    uint8
     |  |  +--rw seconds?    uint8
     |  +--ro state
     |     +--ro duration    empty
     |     +--ro hours?      uint8
     |     +--ro minutes?    uint8
     |     +--ro seconds?    uint8
     +--rw execution
        +--ro state
           +--ro test-direction?            ipi-edpl-types:edpl_direction_t
           +--ro address-family?            ipi-edpl-types:edpl_addr_family_t
           +--ro logical-if-name?           string
           +--ro src-if-name?               string
           +--ro dst-mac?                   string
           +--ro vlan?                      uint16
           +--ro ethtype?                   string
           +--ro src-ip?                    string
           +--ro dst-ip?                    string
```

```
            +--ro src-udp-port?              uint16
            +--ro dst-udp-port?              uint16
            +--ro action-ip-swap?             string
            +--ro action-udp-tcp-port-swap?   string
            +--ro start-time?                string
            +--ro end-time?                  string
            +--ro perpetual-time?             empty

rpcs:
  +---x edpl-test-execute {feature-list:HAVE_ONMD,feature-list:HAVE_EDPL}?
     +---w input
        +---w edpl-action    ipi-edpl-types:edpl_test_action_t
        +---w test-name      string
```

ipi-elk

```
+--rw elk
   +--rw metricbeats
   |  +--rw metricbeat* [ip]
   |     +--rw ip        -> ../config/ip
   |     +--rw config
   |     |  +--rw ip?         inet:ipv4-address
   |     |  +--rw username    string
   |     |  +--rw password    string
   |     +--ro state
   |        +--ro ip?         inet:ipv4-address
   |        +--ro username    string
   |        +--ro password    string
   +--rw filebeats
      +--rw filebeat* [ip]
         +--rw ip        -> ../config/ip
         +--rw config
         |  +--rw ip?                inet:ipv4-address
         |  +--rw certificate-path?   string
         +--ro state
```


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```
        +--ro ip?               inet:ipv4-address
        +--ro certificate-path?   string

rpcs:
  +---x elk-metricbeat-service-enable {feature-list:HAVE_HOSTPD}?
  |  +---w input
  |     +---w vrf-name    string
  +---x elk-filebeat-service-enable {feature-list:HAVE_HOSTPD}?
  |  +---w input
  |     +---w vrf-name    string
  +---x elk-metricbeat-service-disable {feature-list:HAVE_HOSTPD}?
  |  +---w input
  |     +---w vrf-name    string
  +---x elk-filebeat-service-disable {feature-list:HAVE_HOSTPD}?
     +---w input
        +---w vrf-name    string
```

ipi-enhanced-pbr

```
+--rw enhanced-pbr
   +--ro class-maps-default
   |  +--ro class-map-default* [name]
   |     +--ro name     -> ../state/name
   |     +--ro state
   |        +--ro name?             string
   |        +--ro type?             ipi-enhanced-pbr-types:epbr_class_map_t
   |        +--ro match-criteria?   ipi-enhanced-pbr-types:epbr_match_criteria_t
   +--rw class-maps
   |  +--rw class-map* [name class-type]
   |     +--rw name             -> ../config/name
   |     +--rw class-type       -> ../config/class-type
   |     +--rw config
   |     |  +--rw name?                  string
   |     |  +--rw class-type?            ipi-enhanced-pbr-types:epbr_class_map_t
   |     |  +--rw match-criteria         ipi-enhanced-pbr-types:epbr_match_criteria_t
```

```
|    | +--rw reference-description?   cml-data-types:cml_line_t
|    +--ro state
|    | +--ro name?                   string
|    | +--ro class-type?             ipi-enhanced-pbr-types:epbr_class_map_t
|    | +--ro match-criteria          ipi-enhanced-pbr-types:epbr_match_criteria_t
|    | +--ro reference-description?   cml-data-types:cml_line_t
|    +--rw match-filters
|      +--rw config
|      | +--rw protocol?          cml-data-types:cml_range_t
|      | +--rw port?              cml-data-types:cml_range_t
|      | +--rw destination-port?   cml-data-types:cml_range_t
|      | +--rw source-port?        cml-data-types:cml_range_t
|      | +--rw packet-length?      cml-data-types:cml_range_t
|      | +--rw fragment-type?      ipi-enhanced-pbr-types:epbr_fragment_type_t
|      +--ro state
|      | +--ro protocol?          cml-data-types:cml_range_t
|      | +--ro port?              cml-data-types:cml_range_t
|      | +--ro destination-port?   cml-data-types:cml_range_t
|      | +--ro source-port?        cml-data-types:cml_range_t
|      | +--ro packet-length?      cml-data-types:cml_range_t
|      | +--ro fragment-type?      ipi-enhanced-pbr-types:epbr_fragment_type_t
|      +--rw ipv4
|      | +--rw config
|      | | +--rw destination-prefix?   cml-data-types:cml_ipv4_addr_prefix_t
|      | | +--rw source-prefix?        cml-data-types:cml_ipv4_addr_prefix_t
|      | +--ro state
|      | | +--ro destination-prefix?   cml-data-types:cml_ipv4_addr_prefix_t
|      | | +--ro source-prefix?        cml-data-types:cml_ipv4_addr_prefix_t
|      | +--rw icmp
|      |    +--rw config
|      |    | +--rw icmp-type?   cml-data-types:cml_range_t
|      |    | +--rw icmp-code?   cml-data-types:cml_range_t
|      |    +--ro state
|      |       +--ro icmp-type?   cml-data-types:cml_range_t
|      |       +--ro icmp-code?   cml-data-types:cml_range_t
|      +--rw tcp-flag
```


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```
|       | +--rw config
|       | | +--rw value?      string
|       | | +--rw bit-mask?   string
|       | +--ro state
|       |    +--ro value?      string
|       |    +--ro bit-mask?   string
|       +--rw dscp
|          +--rw config
|          | +--rw match-dscp-value?   cml-data-types:cml_range_t
|          +--ro state
|             +--ro match-dscp-value?   cml-data-types:cml_range_t
+--rw policy-maps
   +--rw policy-map* [policy-map-name type]
      +--rw policy-map-name    -> ../config/policy-map-name
      +--rw type               -> ../config/type
      +--rw config
      | +--rw policy-map-name?         string
      | +--rw type?                    ipi-enhanced-pbr-types:epbr_policy_map_t
      | +--rw reference-description?   cml-data-types:cml_line_t
      +--ro state
      | +--ro policy-map-name?         string
      | +--ro type?                    ipi-enhanced-pbr-types:epbr_policy_map_t
      | +--ro reference-description?   cml-data-types:cml_line_t
      +--rw classes
         +--rw class* [class-map-name class-type]
            +--rw class-map-name    -> ../config/class-map-name
            +--rw class-type        -> ../config/class-type
            +--rw config
            | +--rw class-map-name?   string
            | +--rw class-type?       ipi-enhanced-pbr-types:epbr_class_map_t
            +--ro state
            | +--ro class-map-name?   string
            | +--ro class-type?       ipi-enhanced-pbr-types:epbr_class_map_t
            +--rw policy-actions
               +--rw config
               | +--rw drop-traffic?     empty
```

```
|  +--rw dscp-set-value?   ipi-enhanced-pbr-types:epbr_hex_dscp_t
+--ro state
|  +--ro drop-traffic?     empty
|  +--ro dscp-set-value?   ipi-enhanced-pbr-types:epbr_hex_dscp_t
+--rw police
|  +--rw config
|  |  +--rw rate?        uint64
|  |  +--rw rate-unit?   ipi-enhanced-pbr-types:epbr_rate_unit_t
|  +--ro state
|     +--ro rate?        uint64
|     +--ro rate-unit?   ipi-enhanced-pbr-types:epbr_rate_unit_t
+--rw redirect
   +--rw ipv4
      +--rw extcommunity
         +--rw config
         |  +--rw route-target?   ipi-enhanced-pbr-types:epbr_vrf_rt_t
         +--ro state
            +--ro route-target?   ipi-enhanced-pbr-types:epbr_vrf_rt_t
```

ipi-erpsv2

```
+--rw erpsv2 {feature-list:HAVE_G8032V2}?
   +--rw rings
   |  +--rw ring* [ring-name]
   |     +--rw ring-name    -> ../config/ring-name
   |     +--rw config
   |     |  +--rw ring-name?        string
   |     |  +--rw east-interface?   -> /ipi-interface:interfaces/interface/name
   |     |  +--rw west-interface?   -> /ipi-interface:interfaces/interface/name
   |     |  +--rw description?      cml-data-types:cml_line_t
   |     +--ro state
   |        +--ro ring-name?        string
   |        +--ro east-interface?   -> /ipi-interface:interfaces/interface/name
   |        +--ro west-interface?   -> /ipi-interface:interfaces/interface/name
   |        +--ro description?      cml-data-types:cml_line_t
```


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```
+--rw profiles
|  +--rw profile* [profile-name]
|     +--rw profile-name    -> ../config/profile-name
|     +--rw config
|     |  +--rw profile-name?            string
|     |  +--rw wait-to-restore-timer?   uint8
|     |  +--rw hold-off-timer?          uint16
|     |  +--rw guard-time?              uint16
|     |  +--rw protection-mode?         ipi-erpsv2-types:erpsv2_protection_mode_t
|     +--ro state
|        +--ro profile-name?            string
|        +--ro wait-to-restore-timer?   uint8
|        +--ro hold-off-timer?          uint16
|        +--ro guard-time?              uint16
|        +--ro protection-mode?         ipi-erpsv2-types:erpsv2_protection_mode_t
|        +--ro wait-to-block-time?      uint32
+--rw erp-instances
|  +--rw erp-instance* [name]
|     +--rw name                -> ../config/name
|     +--rw config
|     |  +--rw name?                    string
|     |  +--rw ring-name?                -> /erpsv2/rings/ring/ring-name
|     |  +--rw mapped-profile-name?      -> /erpsv2/profiles/profile/profile-name
|     |  +--rw ring-type?                ipi-erpsv2-types:erpsv2_ring_type_t
|     |  +--rw enable-tcn-propagation?   empty
|     |  +--rw tcn-to-instances*         string
|     |  +--rw non-virtual-channel?      empty
|     |  +--rw ring-id?                  uint8
|     |  +--rw description?              cml-data-types:cml_line_t
|     +--ro state
|     |  +--ro name?                    string
|     |  +--ro ring-name?                -> /erpsv2/rings/ring/ring-name
|     |  +--ro mapped-profile-name?      -> /erpsv2/profiles/profile/profile-name
|     |  +--ro ring-type?                ipi-erpsv2-types:erpsv2_ring_type_t
|     |  +--ro enable-tcn-propagation?   empty
|     |  +--ro tcn-to-instances*         string
```

```
|   | +--ro non-virtual-channel?      empty
|   | +--ro ring-id?                  uint8
|   | +--ro description?              cml-data-types:cml_line_t
|   | +--ro instance-id?              uint8
|   | +--ro node-id?                  string
|   | +--ro ring?                     string
|   | +--ro virtual?                  string
|   | +--ro attached?                 string
|   | +--ro attached-to?              string
|   | +--ro tcn-propagation?          string
|   | +--ro erp-state?                ipi-erpsv2-types:erpsv2_erp_state_t
|   | +--ro initial-timer-status?     string
|   | +--ro wait-to-restore-timer?    string
|   | +--ro wait-to-block-timer?      uint32
|   | +--ro hold-off-timer?           uint16
|   | +--ro guard-timer?              uint16
|   | +--ro east-if-name?             string
|   | +--ro east-link-status?         ipi-erpsv2-types:erpsv2_link_status_t
|   | +--ro east-if-state?            ipi-erpsv2-types:erpsv2_interface_state_t
|   | +--ro east-bpr?                 string
|   | +--ro east-node-id?             string
|   | +--ro west-if-name?             string
|   | +--ro west-link-status?         ipi-erpsv2-types:erpsv2_link_status_t
|   | +--ro west-if-state?            ipi-erpsv2-types:erpsv2_interface_state_t
|   | +--ro west-bpr?                 string
|   | +--ro west-node-id?             string
|   | +--ro east-cfm-mep-id?          uint16
|   | +--ro east-cfm-cc-interval?     ipi-erpsv2-types:erpsv2_cfm_cc_interval_t
|   | +--ro east-cfm-domain?          string
|   | +--ro east-cfm-ma?              string
|   | +--ro west-cfm-mep-id?          uint16
|   | +--ro west-cfm-cc-interval?     ipi-erpsv2-types:erpsv2_cfm_cc_interval_t
|   | +--ro west-cfm-domain?          string
|   | +--ro west-cfm-ma?              string
|   | +--ro aps-channel-level?        uint8
|   | +--ro aps-channel-vlan?         uint16
```


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```
|    | +--ro data-vlan?               string
|    | +--ro current-state?           ipi-erpsv2-types:erpsv2_ring_state_t
|    | +--ro out-aps-pkts?            yang:counter32
|    | +--ro in-aps-pkts?             yang:counter32
|    | +--ro previous-state?          ipi-erpsv2-types:erpsv2_ring_state_t
|    +--rw associate-rings
|    | +--rw associate-ring* [associate-ring-name]
|    |    +--rw associate-ring-name    -> ../config/associate-ring-name
|    |    +--rw config
|    |    | +--rw associate-ring-name?   string
|    |    +--ro state
|    |       +--ro associate-ring-name?   string
|    |       +--ro data-vlan?             string
|    +--rw instance-role
|    | +--rw config
|    | | +--rw (role-option)?
|    | |    +--:(owner)
|    | |    | +--rw owner-port-id?          ipi-erpsv2-types:erpsv2_port_id_t
|    | |    +--:(neighbor)
|    | |    | +--rw neighbor-port-id?       ipi-erpsv2-types:erpsv2_port_id_t
|    | |    +--:(next-neighbor)
|    | |    | +--rw next-neighbor-port-id?   ipi-erpsv2-types:erpsv2_port_id_t
|    | |    +--:(non-owner)
|    | |       +--rw non-owner?             empty
|    | +--ro state
|    |    +--ro (role-option)?
|    |       +--:(owner)
|    |       | +--ro owner-port-id?          ipi-erpsv2-types:erpsv2_port_id_t
|    |       +--:(neighbor)
|    |       | +--ro neighbor-port-id?       ipi-erpsv2-types:erpsv2_port_id_t
|    |       +--:(next-neighbor)
|    |       | +--ro next-neighbor-port-id?   ipi-erpsv2-types:erpsv2_port_id_t
|    |       +--:(non-owner)
|    |          +--ro non-owner?             empty
|    +--rw aps-channel
|    | +--rw config
```

```
|    | | +--rw level?   uint8
|    | +--ro state
|    |    +--ro level?   uint8
|    +--rw aps-channel-vlans
|    | +--rw aps-channel-vlan* [vlan-id]
|    |    +--rw vlan-id    -> ../config/vlan-id
|    |    +--rw config
|    |    | +--rw vlan-id?         uint16
|    |    | +--rw inner-vlan-id?   uint16
|    |    +--ro state
|    |       +--ro vlan-id?         uint16
|    |       +--ro inner-vlan-id?   uint16
|    +--rw data
|    | +--rw config
|    | | +--rw data-vlan?   cml-data-types:cml_range_t
|    | +--ro state
|    |    +--ro data-vlan?   cml-data-types:cml_range_t
|    +--rw virtual-channel
|    | +--rw config!
|    | | +--rw channel-id          uint16
|    | | +--rw attached-instance    -> /erpsv2/erp-instances/erp-instance/name
|    | +--ro state
|    |    +--ro channel-id          uint16
|    |    +--ro attached-instance    -> /erpsv2/erp-instances/erp-instance/name
|    +--rw east-link
|    | +--ro state
|    |    +--ro link-name?                    string
|    |    +--ro link-state?                   ipi-erpsv2-types:erpsv2_link_state_t
|    |    +--ro remote-node-id?               cml-data-types:cml_mac_addr_t
|    |    +--ro remote-blocked-port-reference?   uint8
|    +--rw west-link
|    | +--ro state
|    |    +--ro link-name?                    string
|    |    +--ro link-state?                   ipi-erpsv2-types:erpsv2_link_state_t
|    |    +--ro remote-node-id?               cml-data-types:cml_mac_addr_t
|    |    +--ro remote-blocked-port-reference?   uint8
```


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```
|    +--rw aps-statistics
|       +--ro state
|          +--ro tx-ring-aps-messages?   yang:counter32
|          +--ro rx-ring-aps-messages?   yang:counter32
+--rw debug
| +--rw config
| | +--rw options?   ipi-erpsv2-types:erpsv2_debug_t
| +--ro state
|    +--ro options?                ipi-erpsv2-types:erpsv2_debug_t
|    +--ro terminal-debug-status?   ipi-erpsv2-types:erpsv2_debug_t
+--rw subinterfaces
| +--rw subinterface* [name] {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_G8032V2}?
|    +--rw name      -> ../config/name
|    +--rw config
|    | +--rw name?           -> /ipi-interface:interfaces/interface/name
|    | +--rw instance-name?   ipi-erpsv2-types:erpsv2_subinterface_instance_type_t
|    +--ro state
|       +--ro name?           -> /ipi-interface:interfaces/interface/name
|       +--ro instance-name?   ipi-erpsv2-types:erpsv2_subinterface_instance_type_t
+--rw instances-summary
   +--ro state
      +--ro in-init-state?               uint16
      +--ro in-idle-state?               uint16
      +--ro in-pending-state?            uint16
      +--ro in-protection-state?         uint16
      +--ro in-fs-state?                 uint16
      +--ro in-ms-state?                 uint16
      +--ro installed-in-hw?             uint16
      +--ro ring-configured?             uint16
      +--ro associated-ring-configured?   uint16
      +--ro instances-with-ring?         uint16
      +--ro instances-without-ring?      uint16

rpcs:
 +---x erpsv2-switch-erp-instance {feature-list:HAVE_G8032V2,feature-list:HAVE_ONMD}?
 | +---w input
```

```
|     +---w instance-name    string
|     +---w operation        ipi-erpsv2-types:erpsv2_switch_operation_t
|     +---w port-id          ipi-erpsv2-types:erpsv2_port_id_t
+---x erpsv2-clear-ring-erp-instance {feature-list:HAVE_G8032V2,feature-list:HAVE_ONMD}?
|  +---w input
|     +---w instance-name    string
+---x erpsv2-clear-aps-statistics {feature-list:HAVE_G8032V2,feature-list:HAVE_ONMD}?
|  +---w input
|     +---w instance-name    string
+---x erpsv2-terminal-debug-on {feature-list:HAVE_G8032V2}?
|  +---w input
|     +---w terminal-debug-options    ipi-erpsv2-types:erpsv2_debug_t
+---x erpsv2-terminal-debug-off {feature-list:HAVE_G8032V2}?
   +---w input
      +---w terminal-debug-options    ipi-erpsv2-types:erpsv2_debug_t

notifications:
+---n erpsv2-instance-state-change-notification {feature-list:HAVE_G8032V2}?
|  +--ro severity?         cml-data-types:cml_notif_severity_t
|  +--ro eventClass?       cml-data-types:cml_notif_class_t
|  +--ro name?             string
|  +--ro current-state?    ipi-erpsv2-types:erpsv2_ring_state_t
|  +--ro previous-state?   ipi-erpsv2-types:erpsv2_ring_state_t
+---n erpsv2-east-interface-state-change-notification {feature-list:HAVE_G8032V2}?
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro name?         string
|  +--ro link-name?    string
|  +--ro link-state?   ipi-erpsv2-types:erpsv2_link_state_t
+---n erpsv2-west-interface-state-change-notification {feature-list:HAVE_G8032V2}?
   +--ro severity?     cml-data-types:cml_notif_severity_t
   +--ro eventClass?   cml-data-types:cml_notif_class_t
   +--ro name?         string
   +--ro link-name?    string
   +--ro link-state?   ipi-erpsv2-types:erpsv2_link_state_t
```


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ipi-ethernet-vpn

```
 +--rw evpn
    +--rw multi-homing
    |  +--rw config
    |  |  +--rw esi-hold-time?   uint32 {feature-list:HAVE_BGP_EVPN}?
    |  +--ro state
    |     +--ro esi-hold-time?   uint32 {feature-list:HAVE_BGP_EVPN}?
    +--rw global
    |  +--rw config
    |  |  +--rw enable-vxlan-multihoming?       empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
    |  |  +--rw enable-evpn-mpls-multihoming?   empty {feature-list:HAVE_MPLS,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
    |  |  +--rw enable-evpn-srv6-multihoming?   empty {feature-list:HAVE_SRV6,feature-list:HAVE_BGP_EVPN}?
    |  |  +--rw enable-irb?                     empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
    |  |  +--rw enable-mpls-irb?                empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_MPLS,feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    |  |  +--rw enable-evpn-etree?              ipi-ethernet-vpn-types:evpn_etree_enable_scenario_t {feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    |  |  +--rw enable-evpn-storm-control?      empty {feature-list:HAVE_DNX,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
    |  |  +--rw mac-seq-zero-handle?            empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    |  +--ro state
    |     +--ro enable-vxlan-multihoming?       empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
    |     +--ro enable-evpn-mpls-multihoming?   empty {feature-list:HAVE_MPLS,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
    |     +--ro enable-evpn-srv6-multihoming?   empty {feature-list:HAVE_SRV6,feature-list:HAVE_BGP_EVPN}?
    |     +--ro enable-irb?                     empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO}?
    |     +--ro enable-mpls-irb?                empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_MPLS,feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    |     +--ro enable-evpn-etree?              ipi-ethernet-vpn-types:evpn_etree_enable_scenario_t {feature-
list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    |     +--ro enable-evpn-storm-control?      empty {feature-list:HAVE_DNX,feature-list:HAVE_BGP_EVPN,feature-
list:HAVE_NVO}?
    |     +--ro mac-seq-zero-handle?            empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
    +--rw irb-forwarding
    |  +--rw config
```

```
    | |  +--rw mac-address?   cml-data-types:cml_mac_addr_t {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
    |  +--ro state
    | |  +--ro mac-address?   cml-data-types:cml_mac_addr_t {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
    |  +--rw irb-interfaces
    |     +--rw irb-interface* [name]
    |        +--rw name      -> ../config/name
    |        +--rw config
    |        |  +--rw name?          -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
    |        |  +--rw gateway-mac?   empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO,feature-
list:HAVE_VXLAN,feature-list:HAVE_BGP_EVPN}?
    |        +--ro state
    |           +--ro name?          -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_BGP_EVPN}?
    |           +--ro gateway-mac?   empty {feature-list:HAVE_TUNNEL,feature-list:HAVE_NVO,feature-
list:HAVE_VXLAN,feature-list:HAVE_BGP_EVPN}?
    +--rw mac-move-count
    |  +--rw config!
    | |  +--rw max-mac-move-count    uint16
    | |  +--rw duration?             uint16
    | |  +--rw freeze-time?          uint32
    |  +--ro state
    |     +--ro max-mac-move-count    uint16
    |     +--ro duration?             uint16
    |     +--ro freeze-time?          uint32
    +--rw interfaces
    |  +--rw interface* [name]
    |     +--rw name                  -> ../config/name
    |     +--rw config
    |     |  +--rw name?               -> /ipi-interface:interfaces/interface/name
    |     |  +--rw evpn-segment-id?     string
    |     |  +--rw system-mac?          cml-data-types:cml_mac_addr_t
    |     |  +--rw redundancy-mode?     ipi-ethernet-vpn-types:evpn_esi_load_balance_mode_t
    |     |  +--rw evpn-mac-holdtime?   uint32
    |     +--ro state
    |     |  +--ro name?               -> /ipi-interface:interfaces/interface/name
```


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```
|    | +--ro evpn-segment-id?     string
|    | +--ro system-mac?          cml-data-types:cml_mac_addr_t
|    | +--ro redundancy-mode?     ipi-ethernet-vpn-types:evpn_esi_load_balance_mode_t
|    | +--ro evpn-mac-holdtime?   uint32
|    +--rw mh-load-balance-esi {feature-list:HAVE_DUNE}?
|    | +--rw config!
|    | | +--rw service-carving      ipi-ethernet-vpn-types:evpn_esi_svc_carving_df_election_t
|    | | +--rw preference-weight?   uint16
|    | | +--rw no-preempt?          empty
|    | | +--rw ac-driven?           empty
|    | +--ro state
|    |    +--ro service-carving      ipi-ethernet-vpn-types:evpn_esi_svc_carving_df_election_t
|    |    +--ro preference-weight?   uint16
|    |    +--ro no-preempt?          empty
|    |    +--ro ac-driven?           empty
|    +--rw access-interfaces
|       +--rw access-interface* [access-if] {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_NVO}?
|          +--rw access-if                -> ../config/access-if
|          +--rw config
|          | +--rw access-if?                 ipi-ethernet-vpn-types:evpn_acc_if_t
|          | +--rw dynamic-learning-disable?   empty
|          | +--rw arp-nd-flood-suppress?      empty
|          | +--rw cos?                       int16
|          | +--rw arp-cache-disable?          empty
|          | +--rw nd-cache-disable?           empty
|          | +--rw mac-hold-time?              int16
|          | +--rw mac-address*                cml-data-types:cml_mac_addr_t
|          | +--rw garp-gna-enable?            empty {feature-list:HAVE_BGP_EVPN}?
|          | +--rw llf-enable?                 empty
|          | +--rw ac-learning-limit?          -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/
mac-lim-profile-name
|          +--ro state
|          | +--ro access-if?                 ipi-ethernet-vpn-types:evpn_acc_if_t
|          | +--ro dynamic-learning-disable?   empty
|          | +--ro arp-nd-flood-suppress?      empty
|          | +--ro cos?                       int16
|          | +--ro arp-cache-disable?          empty
```

```
|       | +--ro nd-cache-disable?          empty
|       | +--ro mac-hold-time?             int16
|       | +--ro mac-address*               cml-data-types:cml_mac_addr_t
|       | +--ro garp-gna-enable?           empty {feature-list:HAVE_BGP_EVPN}?
|       | +--ro llf-enable?                empty
|       | +--ro ac-learning-limit?         -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/
mac-lim-profile-name
|       +--rw evpn-id-mappings {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_NVO}?
|       | +--rw config
|       | | +--rw evpn-identifier?   uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_MPLS_OR_HAVE_VXLAN_OR_HAVE_SRV6}?
|       | | +--rw evpn-etree-leaf?   empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_DNX,feature-list:HAVE_MPLS}?
|       | +--ro state
|       |   +--ro evpn-identifier?   uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_MPLS_OR_HAVE_VXLAN_OR_HAVE_SRV6}?
|       |   +--ro evpn-etree-leaf?   empty {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO,feature-
list:HAVE_DNX,feature-list:HAVE_MPLS}?
|       +--rw ipv4-host-mac-mappings
|       | +--rw ipv4-host-mac-mapping* [mac-address ipv4-address] {feature-list:HAVE_SUBINTERFACE,feature-
list:HAVE_NVO}?
|       |   +--rw mac-address     -> ../config/mac-address
|       |   +--rw ipv4-address    -> ../config/ipv4-address
|       |   +--rw config
|       |   | +--rw mac-address?    cml-data-types:cml_mac_addr_t
|       |   | +--rw ipv4-address?   inet:ipv4-address
|       |   +--ro state
|       |     +--ro mac-address?    cml-data-types:cml_mac_addr_t
|       |     +--ro ipv4-address?   inet:ipv4-address
|       +--rw ipv6-host-mac-mappings
|         +--rw ipv6-host-mac-mapping* [mac-address ipv6-address] {feature-list:HAVE_SUBINTERFACE,feature-
list:HAVE_NVO,feature-list:HAVE_IPV6}?
|           +--rw mac-address     -> ../config/mac-address
|           +--rw ipv6-address    -> ../config/ipv6-address
|           +--rw config
|           | +--rw mac-address?    cml-data-types:cml_mac_addr_t
|           | +--rw ipv6-address?   inet:ipv6-address
|           +--ro state
|             +--ro mac-address?    cml-data-types:cml_mac_addr_t
```


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```
|                +--ro ipv6-address?   inet:ipv6-address
+--rw vrfs
  +--rw vrf* [vrf-name]
    +--rw vrf-name    -> ../config/vrf-name
    +--rw config
    | +--rw vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    | +--rw service-type?   cml-data-types:cml_evpn_service_type_t
    +--ro state
      +--ro vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
      +--ro service-type?   cml-data-types:cml_evpn_service_type_t
```

ipi-event-manager

```
+--rw event-manager
  +--rw config
  | +--rw feature?   cml-data-types:cml_enable_disable_t
  +--ro state
  | +--ro feature?   cml-data-types:cml_enable_disable_t
  +--rw event-entries
  | +--rw event-entry* [event-name]
  |    +--rw event-name    -> ../config/event-name
  |    +--rw config
  |    | +--rw event-name?      string
  |    | +--rw event-type       ipi-event-manager-types:event_manager_event_type_t
  |    | +--rw event-id         string
  |    | +--rw event-pattern?   cml-data-types:cml_line_t
  |    | +--rw severity?        ipi-event-manager-types:event_manager_severity_level_t
  |    +--ro state
  |      +--ro event-name?      string
  |      +--ro event-type       ipi-event-manager-types:event_manager_event_type_t
  |      +--ro event-id         string
  |      +--ro event-pattern?   cml-data-types:cml_line_t
  |      +--ro severity?        ipi-event-manager-types:event_manager_severity_level_t
  |      +--ro trigger-count?   yang:counter64
  |      +--ro policy-count?    yang:counter64
```

```
|       +--ro status?          ipi-event-manager-types:event_manager_status_t
|       +--ro policy-map?      -> /event-manager/policies/policy/config/policy-name
+--rw action-entries
| +--rw action-entry* [action-name]
|    +--rw action-name    -> ../config/action-name
|    +--rw config
|    | +--rw action-name?     string
|    | +--rw action-type      ipi-event-manager-types:event_manager_action_type_t
|    | +--rw action-script    string
|    +--ro state
|       +--ro action-name?     string
|       +--ro action-type      ipi-event-manager-types:event_manager_action_type_t
|       +--ro action-script    string
|       +--ro trigger-count?   yang:counter64
|       +--ro policy-count?    yang:counter64
|       +--ro status?          ipi-event-manager-types:event_manager_status_t
|       +--ro policy-map*      -> /event-manager/policies/policy/config/policy-name
+--rw policies
   +--rw policy* [policy-name]
      +--rw policy-name    -> ../config/policy-name
      +--rw config
      | +--rw policy-name?   string
      | +--rw event-name     -> /event-manager/event-entries/event-entry/event-name
      | +--rw action-name    -> /event-manager/action-entries/action-entry/action-name
      +--ro state
         +--ro policy-name?             string
         +--ro event-name               -> /event-manager/event-entries/event-entry/event-name
         +--ro action-name              -> /event-manager/action-entries/action-entry/action-name
         +--ro trigger-count?           yang:counter64
         +--ro status?                  ipi-event-manager-types:event_manager_status_t
         +--ro last-execution-status?   ipi-event-manager-types:event_manager_execution_status_t
         +--ro last-execution-time?     string

rpcs:
  +---x event-manager-clear-statistics-all {feature-list:HAVE_VLOGD,feature-list:HAVE_EVENT_MANAGER}?
  +---x event-manager-clear-statistics-on-policy {feature-list:HAVE_VLOGD,feature-list:HAVE_EVENT_MANAGER}?
```


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```
  +---w input
    +---w policy-name    string
```

ipi-evpn-mpls

```
+--rw evpn-mpls
  +--rw global
  |  +--rw config!
  |  |  +--rw enable-evpn-mpls    empty
  |  |  +--rw vtep-ipv4?          inet:ipv4-address
  |  |  +--rw mac-ageing-timer?   uint32
  |  +--ro state
  |  |  +--ro enable-evpn-mpls    empty
  |  |  +--ro vtep-ipv4?          inet:ipv4-address
  |  |  +--ro mac-ageing-timer?   uint32
  |  +--ro route-count
  |     +--ro state
  |        +--ro max-route?      uint32
  |        +--ro active-route?   uint32
  +--rw arp-nd-global
  |  +--rw config
  |  |  +--rw arp-nd-refresh-time?   uint32
  |  +--ro state
  |     +--ro arp-nd-refresh-time?   uint32
  +--rw mpls-tenants
  |  +--rw mpls-tenant* [tenant-identifier]
  |     +--rw tenant-identifier        -> ../config/tenant-identifier
  |     +--rw config
  |     |  +--rw tenant-identifier?    uint32
  |     |  +--rw vpws-identifier?      uint32 {feature-list:HAVE_EVPN_VPWS}?
  |     |  +--rw control-word?         empty
  |     |  +--rw etree-leaf?           empty
  |     |  +--rw flow-label?           empty {feature-list:HAVE_DNX}?
  |     |  +--rw vrf-name?             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |     |  +--rw mac-holdtime?         int32
```

```
    |    | +--rw route-map?            string
    |    | +--rw tenant-description?   string
    |    | +--rw tunnel-policy-name?   string {feature-list:HAVE_SERVICE_MAPPING}?
    |    | +--rw irb-name?             -> /ipi-interface:interfaces/interface/name
    |    | +--rw evi-learning-limit?   -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-lim-profile-name
    |    +--ro state
    |    | +--ro tenant-identifier?    uint32
    |    | +--ro vpws-identifier?      uint32 {feature-list:HAVE_EVPN_VPWS}?
    |    | +--ro control-word?         empty
    |    | +--ro etree-leaf?           empty
    |    | +--ro flow-label?           empty {feature-list:HAVE_DNX}?
    |    | +--ro vrf-name?             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |    | +--ro mac-holdtime?         int32
    |    | +--ro route-map?            string
    |    | +--ro tenant-description?   string
    |    | +--ro tunnel-policy-name?   string {feature-list:HAVE_SERVICE_MAPPING}?
    |    | +--ro irb-name?             -> /ipi-interface:interfaces/interface/name
    |    | +--ro evi-learning-limit?   -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-lim-profile-name
    |    +--ro route-count-info
    |    | +--ro state
    |    |    +--ro total?      uint32
    |    |    +--ro mac-only?   uint32
    |    |    +--ro mac-ipv4?   uint32
    |    |    +--ro mac-ipv6?   uint32 {feature-list:HAVE_IPV6}?
    |    +--ro xconnect-mapping-info {feature-list:HAVE_EVPN_VPWS}?
    |    | +--ro state
    |    |    +--ro source-tenant-description?     string
    |    |    +--ro destination-vpws-identifier?   uint32
    |    |    +--ro source-interface?              string
    |    |    +--ro destination-interface?         string
    |    |    +--ro vtep-ip-address?               inet:ipv4-address
    |    |    +--ro connection-type?               ipi-evpn-mpls-types:evpn_mpls_xconnect_connection_type_t
    |    |    +--ro connection-status?             ipi-evpn-mpls-types:evpn_mpls_xconnect_connection_status_t
    |    +--rw irb
    |    | +--rw config
```


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```
|    | |  +--rw irb-advertise-host-route?   empty
|    |  +--ro state
|    |    +--ro irb-advertise-host-route?   empty
|    +--ro arp-cache-info* [host-ip]
|    |  +--ro host-ip    -> ../state/host-ip
|    |  +--ro state
|    |    +--ro host-ip?     inet:ipv4-address
|    |    +--ro host-mac?    cml-data-types:cml_mac_addr_t
|    |    +--ro host-type?   ipi-evpn-mpls-types:evpn_mpls_host_t
|    +--ro nd-cache-info* [host-ip]
|    |  +--ro host-ip    -> ../state/host-ip
|    |  +--ro state
|    |    +--ro host-ip?     inet:ipv6-address
|    |    +--ro host-mac?    cml-data-types:cml_mac_addr_t
|    |    +--ro host-type?   ipi-evpn-mpls-types:evpn_mpls_host_t
|    +--ro mac-table-info* [mac-address]
|    |  +--ro mac-address    -> ../state/mac-address
|    |  +--ro state
|    |    +--ro mac-address?              cml-data-types:cml_mac_addr_t
|    |    +--ro interface-name?           -> /ipi-interface:interfaces/interface/name
|    |    +--ro vtep-ip-esi?              string
|    |    +--ro host-type?                ipi-evpn-mpls-types:evpn_mpls_host_t
|    |    +--ro host-status?              ipi-evpn-mpls-types:evpn_mpls_host_status_t
|    |    +--ro access-port-description?   cml-data-types:cml_line_t
|    +--ro access-interface-info* [access-interface-name]
|      +--ro access-interface-name    -> ../state/access-interface-name
|      +--ro state
|        +--ro access-interface-name?   string
|        +--ro tenant-description?      string
|        +--ro ethernet-segment-id?     string
|        +--ro port-status?             string
+--ro tunnel* [destination-vtep-ip destination-evpn-identifier]
  +--ro destination-vtep-ip            -> ../state/destination-vtep-ip
  +--ro destination-evpn-identifier    -> ../state/destination-evpn-identifier
  +--ro state
    +--ro destination-vtep-ip?         inet:ipv4-address
```

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```
        +--ro destination-evpn-identifier?   uint32
        +--ro source-vtep-ip?                inet:ipv4-address
        +--ro up-down-time?                  yang:timeticks
        +--ro tunnel-status?                 ipi-evpn-mpls-types:evpn_mpls_tunnel_status_t
        +--ro source-vpws-identifier?        uint32
        +--ro destination-vpws-identifier?   uint32
        +--ro local-multicast-label?         uint32
        +--ro local-unicast-label?           uint32
        +--ro remote-multicast-label?        uint32
        +--ro remote-unicast-label?          uint32
        +--ro is_xconnect?                   boolean
        +--ro mpls-multipath-grp-name?       string
        +--ro mpls-multipath-nhlfe-ix?       uint32
        +--ro tunnel-label?                  uint32
        +--ro network-interface?             -> /ipi-interface:interfaces/interface/name
        +--ro flow-aware-transport?          boolean {feature-list:HAVE_DNX}?
        +--ro counters
          +--ro out-bum-packets?       yang:counter64
          +--ro out-unicast-packets?   yang:counter64
          +--ro in-bum-packets?        yang:counter64
          +--ro in-unicast-packets?    yang:counter64


  rpcs:
    +---x clear-nvo-mpls-dynamic-mac-address-table {feature-list:HAVE_MPLS,feature-list:HAVE_SUBINTERFACE}?
    +---x clear-nvo-mpls-dynamic-mac-address-table-evid {feature-list:HAVE_MPLS,feature-
list:HAVE_SUBINTERFACE}?
    |  +---w input
    |     +---w tenant-identifier    uint32
    |     +---w mac-address?         cml-data-types:cml_mac_addr_t
    +---x clear-evpn-mpls-egress-counters {feature-list:HAVE_MPLS,feature-list:HAVE_SUBINTERFACE}?
    |  +---w input
    |     +---w tenant-identifier?   uint32
    |     +---w egress-direction     ipi-evpn-mpls-types:evpn_mpls_egress_dir_t
    |     +---w destination-ip?      inet:ipv4-address
    +---x clear-evpn-mpls-ingress-counters {feature-list:HAVE_MPLS,feature-list:HAVE_SUBINTERFACE}?
       +---w input
          +---w tenant-identifier?   uint32
```


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```
      +---w ingress-direction    ipi-evpn-mpls-types:evpn_mpls_ingress_dir_t
```

ipi-evpn-srv6

```
 +--rw evpn-srv6
   +--rw global
   |  +--rw config!
   |  |  +--rw enabled              empty
   |  |  +--rw vtep-ipv6-address?   inet:ipv6-address
   |  |  +--rw mac-ageing-timer?    uint32
   |  +--ro state
   |     +--ro enabled              empty
   |     +--ro vtep-ipv6-address?   inet:ipv6-address
   |     +--ro mac-ageing-timer?    uint32
   +--rw arp-nd-global
   |  +--rw config
   |  |  +--rw arp-nd-refresh-time?   uint32
   |  +--ro state
   |     +--ro arp-nd-refresh-time?   uint32
   +--rw tenants
      +--rw tenant* [tenant-identifier]
         +--rw tenant-identifier    -> ../config/tenant-identifier
         +--rw config
         |  +--rw tenant-identifier?    uint32
         |  +--rw vpws-identifier?      uint32 {feature-list:HAVE_EVPN_VPWS}?
         |  +--rw vrf-name?             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
         |  +--rw mac-holdtime?         int32
         |  +--rw tenant-description?   string
         |  +--rw tunnel-policy-name?   string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
         |  +--rw srv6-locator-name?    string
         +--ro state
            +--ro tenant-identifier?    uint32
            +--ro vpws-identifier?      uint32 {feature-list:HAVE_EVPN_VPWS}?
            +--ro vrf-name?             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
            +--ro mac-holdtime?         int32
            +--ro tenant-description?   string
```

```
        +--ro tunnel-policy-name?   string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
        +--ro srv6-locator-name?    string


  rpcs:
    +---x clear-nvo-srv6-dynamic-mac-address-table {feature-list:HAVE_SRV6,feature-list:HAVE_SUBINTERFACE}?
    +---x clear-nvo-srv6-dynamic-mac-address-table-evid {feature-list:HAVE_SRV6,feature-
list:HAVE_SUBINTERFACE}?
    |  +---w input
    |     +---w tenant-identifier    uint32
    |     +---w mac-address?         cml-data-types:cml_mac_addr_t
    +---x clear-evpn-srv6-egress-counters {feature-list:HAVE_SRV6,feature-list:HAVE_SUBINTERFACE}?
    |  +---w input
    |     +---w tenant-identifier?   uint32
    |     +---w egress-direction     cml-data-types:evpn_egress_dir_t
    |     +---w destination-ip?      inet:ipv6-address
    +---x clear-evpn-srv6-ingress-counters {feature-list:HAVE_SRV6,feature-list:HAVE_SUBINTERFACE}?
       +---w input
          +---w tenant-identifier?   uint32
          +---w ingress-direction    cml-data-types:evpn_ingress_dir_t
```

ipi-g8031

```
  +--rw g8031
     +--rw instances
     |  +--rw instance* [eps-id] {feature-list:HAVE_G8031}?
     |     +--rw eps-id    -> ../config/eps-id
     |     +--rw config
     |     |  +--rw eps-id?            uint8
     |     |  +--rw bridge-id          -> /ipi-network-instance:network-instances/network-instance/instance-name
     |     |  +--rw working-port?      -> /ipi-interface:interfaces/interface/name
     |     |  +--rw protection-port?   -> /ipi-interface:interfaces/interface/name
     |     |  +--rw elps-instance-id?  uint8
     |     |  +--rw data-vlans?        cml-data-types:cml_range_t
```


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```
    |  | +--rw primary-vlan?       -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/ipi-vlan:vlans/vlan/vlan-id
    |  +--ro state
    |  | +--ro eps-id?            uint8
    |  | +--ro bridge-id          -> /ipi-network-instance:network-instances/network-instance/instance-name
    |  | +--ro working-port?      -> /ipi-interface:interfaces/interface/name
    |  | +--ro protection-port?   -> /ipi-interface:interfaces/interface/name
    |  | +--ro elps-instance-id?  uint8
    |  | +--ro data-vlans?        cml-data-types:cml_range_t
    |  | +--ro primary-vlan?      -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/ipi-vlan:vlans/vlan/vlan-id
    |  +--rw elps
    |    +--rw config
    |    | +--rw protection-type?        ipi-g8031-elps-types:g8031_elps_protection_type_t
    |    | +--rw enable-revertive-mode?  empty
    |    | +--rw level-identifier?       uint8
    |    +--ro state
    |    | +--ro protection-type?           ipi-g8031-elps-types:g8031_elps_protection_type_t
    |    | +--ro enable-revertive-mode?     empty
    |    | +--ro level-identifier?          uint8
    |    | +--ro direction?                 ipi-g8031-elps-types:g8031_direction_type_t
    |    | +--ro active-path?               ipi-g8031-elps-types:g8031_active_path_type_t
    |    | +--ro request-signal?            ipi-g8031-elps-types:g8031_request_signal_type_t
    |    | +--ro current-state?             ipi-g8031-elps-types:g8031_current_state_type_t
    |    | +--ro failure-of-protocol-state?  ipi-g8031-elps-types:g8031_failure_of_protocol_state_type_t
    |    | +--ro rx-lps-frame-count?        yang:counter32
    |    | +--ro tx-lps-frame-count?        yang:counter32
    |    +--rw timers
    |    | +--rw config
    |    | | +--rw wait-to-restore?  uint16
    |    | | +--rw hold-off?         uint8
    |    | +--ro state
    |    |   +--ro wait-to-restore?  uint16
    |    |   +--ro hold-off?         uint8
    |    +--rw traffic-switch
    |      +--rw config
    |      | +--rw local-freeze?  empty
```

```
|          +--ro state
|             +--ro local-freeze?   empty
+--rw g8031-elps
| +--rw profiles
| | +--rw profile* [name] {feature-list:HAVE_G8031}?
| |    +--rw name      -> ../config/name
| |    +--rw config
| |    | +--rw name?                  string
| |    | +--rw mode?                  ipi-g8031-elps-types:g8031_mode_type_t
| |    | +--rw switching-mode?        ipi-g8031-elps-types:g8031_switching_mode_type_t
| |    | +--rw timer-hold-off?        uint8
| |    | +--rw timer-wait-to-restore?   uint32
| |    +--ro state
| |       +--ro name?                  string
| |       +--ro mode?                  ipi-g8031-elps-types:g8031_mode_type_t
| |       +--ro switching-mode?        ipi-g8031-elps-types:g8031_switching_mode_type_t
| |       +--ro timer-hold-off?        uint8
| |       +--ro timer-wait-to-restore?   uint32
| +--rw protections
| | +--rw protection* [group-name] {feature-list:HAVE_G8031}?
| |    +--rw group-name    -> ../config/group-name
| |    +--rw config
| |    | +--rw group-name?       string
| |    | +--rw working-port?     -> /ipi-interface:interfaces/interface/name
| |    | +--rw protection-port?   -> /ipi-interface:interfaces/interface/name
| |    +--ro state
| |       +--ro group-name?       string
| |       +--ro working-port?     -> /ipi-interface:interfaces/interface/name
| |       +--ro protection-port?   -> /ipi-interface:interfaces/interface/name
| +--rw eps-instances
|    +--rw eps-instance* [name]
|       +--rw name           -> ../config/name
|       +--rw config
|       | +--rw name?                  string
|       | +--rw eps-protection-group?   -> /g8031/g8031-elps/protections/protection/group-name
|       | +--rw g8031-profile-name?     -> /g8031/g8031-elps/profiles/profile/name
```


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```
|       +--ro state
|       |  +--ro name?                       string
|       |  +--ro eps-protection-group?       -> /g8031/g8031-elps/protections/protection/group-name
|       |  +--ro g8031-profile-name?         -> /g8031/g8031-elps/profiles/profile/name
|       |  +--ro eps-id?                     uint8
|       |  +--ro bridge?                     string
|       |  +--ro direction?                  string
|       |  +--ro revertive?                  string
|       |  +--ro working-port?               string
|       |  +--ro working-port-ifindex?       uint32
|       |  +--ro wp-status?                  string
|       |  +--ro protection-port?            string
|       |  +--ro protection-port-ifindex?    uint32
|       |  +--ro pp-status?                  string
|       |  +--ro current-state?              string
|       |  +--ro request-signal?             string
|       |  +--ro active-path?                string
|       |  +--ro dfop-state?                 string
|       |  +--ro local-freeze?               string
|       |  +--ro local-lockout?              string
|       |  +--ro timer-status?               string
|       |  +--ro hold-off?                   string
|       |  +--ro working-cfm-mep-id?         uint16
|       |  +--ro working-cfm-cc-interval?    string
|       |  +--ro working-cfm-domain?         string
|       |  +--ro working-cfm-ma?             string
|       |  +--ro protection-cfm-mep-id?      uint16
|       |  +--ro protection-cfm-cc-interval? string
|       |  +--ro protection-cfm-domain?      string
|       |  +--ro protection-cfm-ma?          string
|       |  +--ro vlan-id?                    uint16
|       |  +--ro inner-vid?                  uint16
|       |  +--ro data-vlan?                  string
|       |  +--ro level?                      uint8
|       |  +--ro aps-statistics-tx?          uint32
|       |  +--ro aps-statistics-rx?          uint32
```

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```
|       +--rw aps-channel
|       |  +--rw config
|       |  |  +--rw level?   uint8
|       |  +--ro state
|       |     +--ro level?   uint8
|       +--rw control-vlans
|       |  +--rw control-vlan* [vlan-id]
|       |     +--rw vlan-id    -> ../config/vlan-id
|       |     +--rw config
|       |     |  +--rw vlan-id?         uint16
|       |     |  +--rw inner-vlan-id?   uint16
|       |     +--ro state
|       |        +--ro vlan-id?         uint16
|       |        +--ro inner-vlan-id?   uint16
|       +--rw data
|          +--rw config
|          |  +--rw data-vlan?   cml-data-types:cml_range_t
|          +--ro state
|             +--ro data-vlan?   cml-data-types:cml_range_t
+--rw debug
   +--rw config
   |  +--rw options?   ipi-g8031-elps-types:g8031_debug_t
   +--ro state
      +--ro options?                ipi-g8031-elps-types:g8031_debug_t
      +--ro terminal-debug-status?   ipi-g8031-elps-types:g8031_debug_t

rpcs:
  +---x g8031-lockout {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w instance-name    string
  +---x g8031-exercise {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w instance-name    string
  +---x g8031-terminal-debug-on {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-g8031-elps-types:g8031_debug_t
```


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```
  +---x g8031-terminal-debug-off {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-g8031-elps-types:g8031_debug_t
  +---x elps-switch-elp-instance {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
  |  +---w input
  |     +---w instance-name    string
  |     +---w operation        ipi-g8031-elps-types:g8031_eps_instance_switch
  +---x eps-clear-ring-instance {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
     +---w input
        +---w instance-name    string
        +---w eps-type         ipi-g8031-elps-types:g8031_eps_instance_type

notifications:
  +---n g8031-active-path-notification
     +--ro severity?                cml-data-types:cml_notif_severity_t
     +--ro eventClass?              cml-data-types:cml_notif_class_t
     +--ro name?                    string
     +--ro eps-id?                  uint8
     +--ro working-port?            string
     +--ro working-port-ifindex?    uint32
     +--ro protection-port?         string
     +--ro protection-port-ifindex? uint32
     +--ro active-path?             string
```

ipi-global-te

```
  +--rw admin-groups
  |  +--rw admin-group* [name id]
  |     +--rw name      -> ../config/name
  |     +--rw id        -> ../config/id
  |     +--rw config
  |     |  +--rw name?   string
  |     |  +--rw id?     uint8
  |     +--ro state
  |        +--ro name?   string
  |        +--ro id?     uint8
```

```
 +--rw extended-admin-groups
 |  +--rw extended-admin-group* [name id]
 |     +--rw name      -> ../config/name
 |     +--rw id        -> ../config/id
 |     +--rw config
 |     |  +--rw name?   string
 |     |  +--rw id?     uint32
 |     +--ro state
 |        +--ro name?   string
 |        +--ro id?     uint32
 +--rw srlg-maps
    +--rw srlg-map* [name id]
       +--rw name      -> ../config/name
       +--rw id        -> ../config/id
       +--rw config
       |  +--rw name?   string
       |  +--rw id?     uint32
       +--ro state
          +--ro name?   string
          +--ro id?     uint32
```

ipi-host

```
 +--rw system-host {feature-list:HAVE_IMI}?
    +--rw config
    |  +--rw banner-motd?                          cml-data-types:cml_banner_t
    |  +--rw banner-motd-file?                     cml-data-types:cml_file_t
    |  +--rw service-passwd-encryption?            boolean
    |  +--rw service-term-length?                  uint16
    |  +--rw system-enable-passwd?                 cml-data-types:cml_line_t
    |  +--rw passwd-encrypted?                     empty
    |  +--rw disable-default-autoenable?           empty
    |  +--rw disable-service-advanced-vty?         empty
    |  +--rw term-monitor-default-behavior-disable?   empty
    |  +--rw term-timestamping?                    empty
    +--ro state
```


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```
   +--ro banner-motd?                          cml-data-types:cml_banner_t
   +--ro banner-motd-file?                     cml-data-types:cml_file_t
   +--ro service-passwd-encryption?            boolean
   +--ro service-term-length?                  uint16
   +--ro system-enable-passwd?                 cml-data-types:cml_line_t
   +--ro passwd-encrypted?                     empty
   +--ro disable-default-autoenable?           empty
   +--ro disable-service-advanced-vty?         empty
   +--ro term-monitor-default-behavior-disable?  empty
   +--ro term-timestamping?                    empty
```

ipi-hwtable

```
notifications:
  +---n hwtable-monitor-full-notification
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n hwtable-monitor-full-clear-notification
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro message?      string
```

ipi-if-aggregate

```
augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw member-aggregation
     +--rw config!
     |  +--rw agg-type        ipi-lag-types:lag_link_agg_type_t
     |  +--rw aggregate-id    uint16
     |  +--rw lacp-mode       ipi-lag-types:lacp_mode_t
     +--ro state
     |  +--ro agg-type        ipi-lag-types:lag_link_agg_type_t
```

```
    |  +--ro aggregate-id    uint16
    |  +--ro lacp-mode       ipi-lag-types:lacp_mode_t
    +--rw port-channel-weight {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
       +--rw config
       |  +--rw weight?   uint16
       +--ro state
          +--ro weight?   uint16
augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw aggregator
     +--rw config
     |  +--rw min-links?       uint8 {feature-list:HAVE_LACP}?
     |  +--rw min-bandwidth?   string {feature-list:HAVE_LACP}?
     +--ro state
     |  +--ro min-links?             uint8 {feature-list:HAVE_LACP}?
     |  +--ro min-bandwidth?         string {feature-list:HAVE_LACP}?
     |  +--ro agg-min-links-state?   ipi-lag-types:lag_agg_min_links_status
     |  +--ro agg-up-timestamp?      ipi-lag-types:lag_up_time_t
     +--ro members
        +--ro member* [link-name]
           +--ro link-name    -> ../state/link-name
           +--ro state
              +--ro link-name?    string
              +--ro link-state?   ipi-lag-types:lag_member_link_status_t

notifications:
  +---n agg-min-links-state-update
     +--ro severity?              cml-data-types:cml_notif_severity_t
     +--ro eventClass?            cml-data-types:cml_notif_class_t
     +--ro name?                  string
     +--ro agg-min-links-state?   ipi-lag-types:lag_agg_min_links_status
```

ipi-if-ethernet

```
augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw ethernet
```


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```
    +--rw config
    |  +--rw duplex-mode?             ipi-if-types:if_duplex_t
    |  +--rw secondary-mac-address?   empty {feature-list:HAVE_MLAG}?
    |  +--rw port-speed?              ipi-if-types:if_interface_speed_t {feature-list:NOT_HAVE_TIBIT}?
    +--ro state
    |  +--ro duplex-mode?             ipi-if-types:if_duplex_t
    |  +--ro secondary-mac-address?    empty {feature-list:HAVE_MLAG}?
    |  +--ro port-speed?              ipi-if-types:if_interface_speed_t {feature-list:NOT_HAVE_TIBIT}?
    |  +--ro hw-mac-address?          cml-data-types:cml_mac_addr_t
    |  +--ro negotiated-duplex-mode?   ipi-if-types:if_duplex_t
    |  +--ro negotiated-port-speed?    ipi-if-types:if_interface_speed_t
    |  +--ro counters
    |     +--ro in-mac-control-frames?    yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |     +--ro in-mac-pause-frames?      yang:counter64
    |     +--ro in-undersize-frames?      yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |     +--ro in-oversize-frames?       yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |     +--ro in-fragment-frames?       yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |     +--ro in-jabber-frames?         yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |     +--ro in-crc-errors?            yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
    |     +--ro out-mac-control-frames?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |     +--ro out-mac-pause-frames?     yang:counter64
    |     +--ro in-distribution
    |     |  +--ro in-frames-64-octets?          yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |     |  +--ro in-frames-65-127-octets?      yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |     |  +--ro in-frames-128-255-octets?     yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |     |  +--ro in-frames-256-511-octets?     yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |     |  +--ro in-frames-512-1023-octets?    yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
    |     |  +--ro in-frames-1024-1518-octets?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
```

```
      |     | +--ro in-frames-1519-2047-octets?    yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |     | +--ro in-frames-2048-4095-octets?    yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |     | +--ro in-frames-4096-9216-octets?    yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |     | +--ro in-frames-9217-16383-octets?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |     +--ro out-distribution
      |       +--ro out-frames-64-octets?          yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-65-127-octets?      yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-128-255-octets?     yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-256-511-octets?     yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-512-1023-octets?    yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-1024-1518-octets?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-1519-2047-octets?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-2048-4095-octets?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-4096-9216-octets?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      |       +--ro out-frames-9217-16383-octets?  yang:counter64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_HAL,feature-list:NOT_HAVE_SWFWDR}?
      +--rw flow-control {feature-list:HAVE_L2}?
        +--rw config
        | +--rw enable-rcv?   ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
        | +--rw enable-snd?   ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
        +--ro state
          +--ro enable-rcv?        ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
          +--ro enable-snd?        ipi-if-types:if_flowctrl_t {feature-list:HAVE_L2}?
          +--ro rcv-oper-status?   ipi-if-types:if_flowctrl_t
          +--ro snd-oper-status?   ipi-if-types:if_flowctrl_t
```


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ipi-if-extended

```
 +--rw link-scan
 |  +--rw config
 |  |  +--rw link-scan-timer?    uint16
 |  |  +--rw snmp-lower-layer?   empty
 |  +--ro state
 |     +--ro link-scan-timer?    uint16
 |     +--ro snmp-lower-layer?   empty
 +--rw l2-protocol
 |  +--rw config
 |  |  +--rw protocol-type?   ipi-if-types:if_l2_proto_type
 |  +--ro state
 |     +--ro protocol-type?   ipi-if-types:if_l2_proto_type
 +--rw mac-ageing
    +--rw config
    +--ro state

augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw extended
     +--rw l2-control-protocol* [l2cp-type] {feature-list:HAVE_L2}?
     |  +--rw l2cp-type    -> ../config/l2cp-type
     |  +--rw config
     |  |  +--rw l2cp-type?          ipi-if-types:if_l2cp_t
     |  |  +--rw protocol-process    ipi-if-types:if_l2cp_process_t
     |  +--ro state
     |     +--ro l2cp-type?          ipi-if-types:if_l2cp_t
     |     +--ro protocol-process    ipi-if-types:if_l2cp_process_t
     +--rw config
     |  +--rw link-flap-error-disable?         empty {feature-list:HAVE_L2}?
     |  +--rw storm-control-error-disable?     empty {feature-list:HAVE_RATE_LIMIT}?
     |  +--rw mac-move-limit-error-disable?    empty {feature-list:HAVE_L2}?
     |  +--rw mac-move-priority?               uint32 {feature-list:HAVE_L2}?
     |  +--rw disable-snmp-trap-link-status?   empty
     |  +--rw mau-default-type?                ipi-if-types:if_mautype_t {feature-list:HAVE_L2}?
     |  +--rw debounce-time?                   uint16
```

```
|  +--rw protected-port?                ipi-if-types:if_protected_port_type_t
|  +--rw raon-aodu-port?                ipi-if-types:if_raon_aodu_state {feature-list:HAVE_DUNE}?
|  +--rw ucmp-port?                     ipi-if-types:if_ucmp_state
|  +--rw revertive-timer?               uint8 {feature-list:HAVE_DUNE}?
|  +--rw enable-non-revertive?          empty {feature-list:HAVE_DUNE}?
+--ro state
|  +--ro link-flap-error-disable?       empty {feature-list:HAVE_L2}?
|  +--ro storm-control-error-disable?   empty {feature-list:HAVE_RATE_LIMIT}?
|  +--ro mac-move-limit-error-disable?  empty {feature-list:HAVE_L2}?
|  +--ro mac-move-priority?             uint32 {feature-list:HAVE_L2}?
|  +--ro disable-snmp-trap-link-status? empty
|  +--ro mau-default-type?              ipi-if-types:if_mautype_t {feature-list:HAVE_L2}?
|  +--ro debounce-time?                 uint16
|  +--ro protected-port?                ipi-if-types:if_protected_port_type_t
|  +--ro raon-aodu-port?                ipi-if-types:if_raon_aodu_state {feature-list:HAVE_DUNE}?
|  +--ro ucmp-port?                     ipi-if-types:if_ucmp_state
|  +--ro revertive-timer?               uint8 {feature-list:HAVE_DUNE}?
|  +--ro enable-non-revertive?          empty {feature-list:HAVE_DUNE}?
|  +--ro properties?                    ipi-if-types:if_iface_prop_t
|  +--ro mapped-name?                   string
|  +--ro if-counter-discontinuity-time? yang:timestamp
|  +--ro slot-id?                       uint32
|  +--ro hardware-type?                 ipi-if-types:if_hw_type_t
|  +--ro metric?                        int32
|  +--ro if-type?                       ipi-if-types:if_interface_type_t
|  +--ro trust-state?                   ipi-if-types:if_trust_state_t {feature-list:HAVE_QOS}?
|  +--ro monitor-port-grp?              boolean {feature-list:HAVE_TFO}?
|  +--ro failover-link-type?            ipi-if-types:if_tfo_link_type_t {feature-list:HAVE_TFO}?
|  +--ro udld-flush-transmitted?        uint16 {feature-list:HAVE_UDLD}?
|  +--ro linkup-debounce-interval?      yang:counter32
|  +--ro linkdown-debounce-interval?    yang:counter32
|  +--ro link-debounce-flap-count?      uint16
|  +--ro link-debounce-config-status?   ipi-if-types:if_debounce_running_state
|  +--ro link-debounce-last-flap-time?  yang:date-and-time
|  +--ro linkup-debounce-running-status?   ipi-if-types:if_debounce_running_state
|  +--ro linkdown-debounce-running-status? ipi-if-types:if_debounce_running_state
```


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```
|  +--ro linkup-debounce-remain-time?        yang:counter32
|  +--ro linkdown-debounce-remain-time?      yang:counter32
|  +--ro debounce-flap-count?                uint16
|  +--ro debounce-last-flap-time?            yang:date-and-time
|  +--ro debounce-remain-time?               yang:counter32
|  +--ro debounce-running-status?            ipi-if-types:if_debounce_running_state
|  +--ro debounce-config-status?             ipi-if-types:if_debounce_running_state
|  +--ro last-flapped?                       ipi-if-types:if_last_clear_time_t
|  +--ro auto-ipv6-link-local-address?       cml-data-types:cml_ipv6_prefix_t {feature-list:HAVE_IPV6}?
|  +--ro current-load-interval?              uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
+--rw bandwidth-management
|  +--rw config
|     +--rw enable-re-routing?   empty
+--rw port-monitor
|  +--rw config
|  |  +--rw enable-speed?         empty
|  |  +--rw enable-queue-drops?   empty
|  |  +--rw enable-pfc-mon?       empty
|  |  +--rw enable-ecn-mon?       empty
|  +--ro state
|  |  +--ro enable-speed?         empty
|  |  +--ro enable-queue-drops?   empty
|  |  +--ro enable-pfc-mon?       empty
|  |  +--ro enable-ecn-mon?       empty
|  +--rw port-monitor-threshold
|     +--rw config!
|     |  +--rw warning-threshold     uint8
|     |  +--rw recovery-threshold    uint8
|     +--ro state
|        +--ro warning-threshold     uint8
|        +--ro recovery-threshold    uint8
+--ro capabilities {feature-list:HAVE_HAL}?
|  +--ro state
|     +--ro speed-half-duplex?   string
|     +--ro speed-full-duplex?   string
|     +--ro pause?               ipi-if-types:if_raw_string_t
```

```
|    +--ro interface-type?      ipi-if-types:if_raw_string_t
|    +--ro medium?              ipi-if-types:if_raw_string_t
|    +--ro loopback?            ipi-if-types:if_raw_string_t
|    +--ro flags?               string
|    +--ro eee?                 ipi-if-types:if_raw_string_t
|    +--ro fcmap?               string
|    +--ro encapsulation?       ipi-if-types:if_raw_string_t
|    +--ro fec?                 ipi-if-types:if_raw_string_t
+--rw service-queue {feature-list:HAVE_SUBINTERFACE}?
| +--rw config
| | +--rw subif-service-queue?   ipi-if-types:if_subif_sevice_queue_t
| +--ro state
|    +--ro subif-service-queue?   ipi-if-types:if_subif_sevice_queue_t
+--rw aclif
| +--rw config
| | +--rw aclif-type?   ipi-if-types:if_aclif_type_t
| +--ro state
|    +--ro aclif-type?   ipi-if-types:if_aclif_type_t
+--rw subinterface-encapsulation {feature-list:HAVE_SUBINTERFACE}?
| +--rw config
| | +--rw encap-default?    empty
| | +--rw encap-untagged?   empty
| +--ro state
| | +--ro encap-default?    empty
| | +--ro encap-untagged?   empty
| +--rw rewrite
| | +--rw config!
| | | +--rw vlan-action                    ipi-if-types:if_subif_l2_vlan_actiontype_t
| | | +--rw (vlan-action-type)?
| | |    +--:(pop)
| | |    | +--rw enable-pop                ipi-if-types:if_subif_rewrite_pop_type_t
| | |    +--:(push)
| | |    | +--rw push-tpid                 ipi-if-types:cml_outer_tpid_type_t
| | |    | +--rw push-outer-vlan-id        uint16
| | |    | +--rw push-inner-vlan-id?       uint16
| | |    +--:(translate)
```


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```
| | |       +--rw rewrite-translate-action    ipi-if-types:if_subif_l2_rewrite_actiontype_t
| | |       +--rw dot1q-dot1ad-tpid           ipi-if-types:cml_outer_tpid_type_t
| | |       +--rw outer-vlan-id               uint16
| | |       +--rw i-dot1q-dot1ad-tpid         ipi-if-types:cml_inner_tpid_type_t
| | |       +--rw inner-vlan-id               uint16
| | +--ro state
| | | +--ro vlan-action                     ipi-if-types:if_subif_l2_vlan_actiontype_t
| | | +--ro (vlan-action-type)?
| | |    +--:(pop)
| | |    | +--ro enable-pop                  ipi-if-types:if_subif_rewrite_pop_type_t
| | |    +--:(push)
| | |    | +--ro push-tpid                   ipi-if-types:cml_outer_tpid_type_t
| | |    | +--ro push-outer-vlan-id          uint16
| | |    | +--ro push-inner-vlan-id?         uint16
| | |    +--:(translate)
| | |       +--ro rewrite-translate-action    ipi-if-types:if_subif_l2_rewrite_actiontype_t
| | |       +--ro dot1q-dot1ad-tpid           ipi-if-types:cml_outer_tpid_type_t
| | |       +--ro outer-vlan-id               uint16
| | |       +--ro i-dot1q-dot1ad-tpid         ipi-if-types:cml_inner_tpid_type_t
| | |       +--ro inner-vlan-id               uint16
| | +--rw egress {feature-list:HAVE_SUBINTERFACE,feature-list:HAVE_DNX}?
| |    +--rw config
| |    | +--rw disable-egr-pcp?   empty {feature-list:HAVE_DNX}?
| |    +--ro state
| |       +--ro disable-egr-pcp?   empty {feature-list:HAVE_DNX}?
| +--rw single-tag-vlan-matches
| | +--rw single-tag-vlan-match* [encapsulation-type]
| |    +--rw encapsulation-type    -> ../config/encapsulation-type
| |    +--rw config
| |    | +--rw encapsulation-type?   ipi-if-types:if_subif_encap_type_t
| |    | +--rw outer-vlan-id         cml-data-types:cml_range_t
| |    +--ro state
| |       +--ro encapsulation-type?   ipi-if-types:if_subif_encap_type_t
| |       +--ro outer-vlan-id         cml-data-types:cml_range_t
| +--rw double-tag-vlan-matches
|    +--rw double-tag-vlan-match* [encap-type outer-vlan-id]
```

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```
    |       +--rw encap-type       -> ../config/encap-type
    |       +--rw outer-vlan-id    -> ../config/outer-vlan-id
    |       +--rw config
    |       |  +--rw encap-type?      ipi-if-types:if_subif_encap_type_t
    |       |  +--rw outer-vlan-id?   string
    |       |  +--rw inner-vlan-id*   string
    |       +--ro state
    |          +--ro encap-type?      ipi-if-types:if_subif_encap_type_t
    |          +--ro outer-vlan-id?   string
    |          +--ro inner-vlan-id*   string
    +--rw subinterface-split-horizon {feature-list:HAVE_SUBINTERFACE}?
    |  +--rw config
    |  |  +--rw split-horizon-group?   ipi-if-types:if_split_horizon_t
    |  +--ro state
    |     +--ro split-horizon-group?   ipi-if-types:if_split_horizon_t
    +--rw link-debounce-time
    |  +--rw config!
    |  |  +--rw linkup-debounce-time      uint32
    |  |  +--rw linkdown-debounce-time    uint32
    |  +--ro state
    |     +--ro linkup-debounce-time      uint32
    |     +--ro linkdown-debounce-time    uint32
    +--rw minimum-bandwidth {feature-list:HAVE_TE}?
       +--rw config!
       |  +--rw rate         uint32
       |  +--rw rate-unit    ipi_if_extended_rate_unit_t
       +--ro state
          +--ro rate         uint32
          +--ro rate-unit    ipi_if_extended_rate_unit_t
augment /ipi-interface:interfaces/ipi-interface:interface/ipi-if-ethernet:ethernet:
  +--rw extended-ethernet
     +--rw config
     |  +--rw forward-err-correction?   ipi-if-types:if_intf_fec_t
     |  +--rw load-interval?            uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
     +--ro state
        +--ro forward-err-correction?   ipi-if-types:if_intf_fec_t
```


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```
        +--ro load-interval?           uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
        +--ro default-duplex-mode?     uint8
        +--ro default-speed?           string
  augment /ipi-interface:interfaces/ipi-interface:interface/ipi-if-ethernet:ethernet:
    +--rw storm-control {feature-list:HAVE_RATE_LIMIT}?
      +--rw broadcast {feature-list:HAVE_RATE_LIMIT}?
      |  +--rw config! {feature-list:HAVE_RATE_LIMIT}?
      |  |  +--rw bcast-value               ipi-if-types:if_rate_limit_t
      |  |  +--rw bcast-rate-limit-format   ipi-if-types:if_rate_limit_type
      |  |  +--rw bcast-burst-value         uint32
      |  +--ro state {feature-list:HAVE_RATE_LIMIT}?
      |     +--ro bcast-value                   ipi-if-types:if_rate_limit_t
      |     +--ro bcast-rate-limit-format       ipi-if-types:if_rate_limit_type
      |     +--ro bcast-burst-value             uint32
      |     +--ro hardware-applied-bcast-value?   decimal64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_RATE_LIMIT}?
      +--rw multicast {feature-list:HAVE_RATE_LIMIT}?
      |  +--rw config! {feature-list:HAVE_RATE_LIMIT}?
      |  |  +--rw mcast-value               ipi-if-types:if_rate_limit_t
      |  |  +--rw mcast-rate-limit-format   ipi-if-types:if_rate_limit_type
      |  |  +--rw mcast-burst-value         uint32
      |  +--ro state {feature-list:HAVE_RATE_LIMIT}?
      |     +--ro mcast-value                   ipi-if-types:if_rate_limit_t
      |     +--ro mcast-rate-limit-format       ipi-if-types:if_rate_limit_type
      |     +--ro mcast-burst-value             uint32
      |     +--ro hardware-applied-mcast-value?   decimal64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_RATE_LIMIT}?
      +--rw dlf-broadcast {feature-list:HAVE_RATE_LIMIT}?
        +--rw config! {feature-list:HAVE_RATE_LIMIT}?
        |  +--rw dlf-bcast-value               ipi-if-types:if_rate_limit_t
        |  +--rw dlf-bcast-rate-limit-format   ipi-if-types:if_rate_limit_type
        |  +--rw dlf-bcast-burst-value         uint32
        +--ro state {feature-list:HAVE_RATE_LIMIT}?
           +--ro dlf-bcast-value                   ipi-if-types:if_rate_limit_t
           +--ro dlf-bcast-rate-limit-format       ipi-if-types:if_rate_limit_type
           +--ro dlf-bcast-burst-value             uint32
```

```
        +--ro hardware-applied-dlf-bcast-value?   decimal64 {feature-list:HAVE_BROADCOM,feature-
list:HAVE_RATE_LIMIT}?
  augment /ipi-interface:interfaces/ipi-interface:interface/ipi-interface:state:
    +--ro custom-state
      +--ro current-bandwidth?   uint64
  augment /ipi-interface:interfaces/ipi-interface:interface/ipi-interface:state/ipi-interface:counters:
    +--ro extended-counters
      +--ro in-compressed?          yang:counter64
      +--ro out-compressed?         yang:counter64
      +--ro collisions?             yang:counter64
      +--ro unicast-rpf-discard?    yang:counter64
      +--ro in-length-errors?       yang:counter64
      +--ro in-oversize-errors?     yang:counter64
      +--ro in-crc-errors?          yang:counter64
      +--ro in-frame-errors?        yang:counter64
      +--ro in-fifo-errors?         yang:counter64
      +--ro in-missed-errors?       yang:counter64
      +--ro out-aborted-errors?     yang:counter64
      +--ro out-carrier-errors?     yang:counter64
      +--ro out-fifo-errors?        yang:counter64
      +--ro out-heartbeat-errors?   yang:counter64
      +--ro out-window-errors?      yang:counter64
      +--ro l2-protocol-pkt-stat* [l2cp-counter-type] {feature-list:HAVE_HAL,feature-list:HAVE_BROADCOM}?
      |  +--ro lacp-counters?       yang:counter64
      |  +--ro stp-counters?        yang:counter64
      |  +--ro lldp-counters?       yang:counter64
      |  +--ro efmCounters?         yang:counter64
      |  +--ro elmi-counters?       yang:counter64
      |  +--ro dot1x-counters?      yang:counter64
      |  +--ro synce-counters?      yang:counter64
      |  +--ro l2cp-counter-type    ipi-if-types:if_l2cp_stats_process_t
      +--ro error-disable-reason?   ipi-if-types:if_errdisable_state_t
  augment /ipi-interface:interfaces/ipi-interface:interface/ipi-if-ethernet:ethernet/ipi-if-ethernet:state/ipi-if-
ethernet:counters:
    +--ro extended-ethernet-counters {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR,feature-list:NOT_HAVE_POND}?
      +--ro protocol-pkt-stats {feature-list:HAVE_HAL,feature-list:HAVE_BROADCOM}?
```


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```
|  +--ro in-bgp-pkts?             yang:counter32
|  +--ro in-ospf-pkts?            yang:counter32
|  +--ro in-isis-pkts?            yang:counter32
|  +--ro in-ldp-rsvp-pkts?        yang:counter32
|  +--ro in-arp-pkts?             yang:counter32
|  +--ro in-evpn-pkts?            yang:counter32
|  +--ro in-igmp-pkts?            yang:counter32
|  +--ro in-pim-pkts?             yang:counter32
|  +--ro in-bpdu-pkts?            yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-oamp-pkts?            yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-bfd-pkts?             yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-vrrp-rip-dhcp-pkts?   yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-rsvd-mc-pkts?         yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-link-local-pkts?      yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-icmp-pkts?            yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-icmp-redirect-pkts?   yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-misc-pkts?            yang:counter32 {feature-list:HAVE_DUNE}?
|  +--ro in-total-pkts?           yang:counter32
+--ro in-good-octets?               yang:counter64
+--ro in-bad-octets?                yang:counter64
+--ro mac-transmit-error?           yang:counter64
+--ro in-good-pkts?                 yang:counter64
+--ro in-bad-pkts?                  yang:counter64
+--ro out-good-octets?              yang:counter64
+--ro out-good-pkts?                yang:counter64
+--ro excessive-collisions?         yang:counter64
+--ro in-unrecognized-mac-control?  yang:counter64
+--ro drop-events?                  yang:counter64
+--ro in-mac-errors?                yang:counter64
+--ro in-dribble-errors?            yang:counter64
+--ro collisions-state?             yang:counter64
+--ro late-collisions?              yang:counter64
+--ro deferred-tx?                  yang:counter64
+--ro mtu-exceed-discards?          yang:counter64
+--ro in-jumbo-frames?              yang:counter64
+--ro out-jumbo-frames?             yang:counter64
```

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```
     +--ro receive-pkt-rate?              yang:counter64
     +--ro receive-bit-rate?              yang:counter64
     +--ro send-pkt-rate?                 yang:counter64
     +--ro send-bit-rate?                 yang:counter64
augment /ipi-interface:interfaces:
  +--rw global
     +--rw config
     |  +--rw load-interval?   uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
     +--ro state
     |  +--ro load-interval?   uint16 {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
     +--rw error-disable
     |  +--rw config
     |  |  +--rw reason?                       ipi-if-types:if_err_reason_t
     |  |  +--rw error-disable-stp-bpdu-guard?   boolean
     |  |  +--rw timeout-interval?             uint32 {feature-list:HAVE_L2}?
     |  |  +--rw link-flap-max-count?          uint32 {feature-list:HAVE_L2}?
     |  |  +--rw link-flap-timer-interval?     uint32 {feature-list:HAVE_L2}?
     |  |  +--rw mac-move-limit?               uint32 {feature-list:HAVE_L2}?
     |  |  +--rw storm-control-max-count?      uint32 {feature-list:HAVE_RATE_LIMIT}?
     |  |  +--rw storm-control-timer-interval?   uint32 {feature-list:HAVE_RATE_LIMIT}?
     |  +--ro state
     |     +--ro reason?                          ipi-if-types:if_err_reason_t
     |     +--ro error-disable-stp-bpdu-guard?          boolean
     |     +--ro timeout-interval?                uint32 {feature-list:HAVE_L2}?
     |     +--ro link-flap-max-count?               uint32 {feature-list:HAVE_L2}?
     |     +--ro link-flap-timer-interval?          uint32 {feature-list:HAVE_L2}?
     |     +--ro mac-move-limit?                    uint32 {feature-list:HAVE_L2}?
     |     +--ro storm-control-max-count?             uint32 {feature-list:HAVE_RATE_LIMIT}?
     |     +--ro storm-control-timer-interval?        uint32 {feature-list:HAVE_RATE_LIMIT}?
     |     +--ro default-link-flap-count?           uint32
     |     +--ro default-link-flap-timer-interval?    uint32
     |     +--ro default-storm-control-max-count?     uint32 {feature-list:HAVE_RATE_LIMIT}?
     |     +--ro default-storm-control-timer-interval?   uint32 {feature-list:HAVE_RATE_LIMIT}?
     |     +--ro link-flap-status?                  ipi-if-types:if_errdis_status_t
     |     +--ro storm-control-status?                ipi-if-types:if_errdis_status_t
     |     +--ro lag-mismatch-status?                 ipi-if-types:if_errdis_status_t
```


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```
|     +--ro stp-bpdu-guard-status?                ipi-if-types:if_errdis_status_t
|     +--ro mac-move-limit-status?                ipi-if-types:if_errdis_status_t
+--rw l2-control-protocols {feature-list:HAVE_L2}?
|  +--rw l2-control-protocol* [l2cp-type]
|     +--rw l2cp-type    -> ../config/l2cp-type
|     +--rw config
|     |  +--rw l2cp-type?          ipi-if-types:if_l2cp_t
|     |  +--rw protocol-process    ipi-if-types:if_l2cp_process_t
|     +--ro state
|        +--ro l2cp-type?          ipi-if-types:if_l2cp_t
|        +--ro protocol-process    ipi-if-types:if_l2cp_process_t
+--rw mtus
   +--rw mtu* [if-type]
      +--rw if-type    -> ../config/if-type
      +--rw config
      |  +--rw if-type?   ipi-if-types:if_global_mtu_if_type_t
      |  +--rw mtu        uint32
      +--ro state
         +--ro if-type?   ipi-if-types:if_global_mtu_if_type_t
         +--ro mtu        uint32
augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw tunnel {feature-list:HAVE_TUNNEL}?
     +--rw config
     |  +--rw mode?                ipi-if-types:if_tunnel_mode_t
     |  +--rw src?                 inet:ipv4-address
     |  +--rw multicast-interface?   string {feature-list:HAVE_VXLAN}?
     |  +--rw dst?                 inet:ipv4-address
     |  +--rw checksum-enable?       empty
     |  +--rw tos-byte?            uint16
     |  +--rw ttl?                 uint16
     |  +--rw path-mtu-enable?       empty
     |  +--rw dst-mac-address?       string {feature-list:HAVE_USER_HSL}?
     |  +--rw gre-key?             ipi-if-types:if_tunnel_key_t {feature-list:HAVE_GRE_KEY}?
     +--ro state
        +--ro mode?                ipi-if-types:if_tunnel_mode_t
        +--ro src?                 inet:ipv4-address
```

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```
        +--ro multicast-interface?   string {feature-list:HAVE_VXLAN}?
        +--ro dst?                   inet:ipv4-address
        +--ro checksum-enable?       empty
        +--ro tos-byte?              uint16
        +--ro ttl?                   uint16
        +--ro path-mtu-enable?       empty
        +--ro dst-mac-address?       string {feature-list:HAVE_USER_HSL}?
        +--ro gre-key?               ipi-if-types:if_tunnel_key_t {feature-list:HAVE_GRE_KEY}?
  augment /ipi-interface:interfaces:
    +--rw port-group-speed-map* [group-index] {feature-list:HAVE_DUNE,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
      +--rw group-index    -> ../config/group-index
      +--rw config
      |  +--rw group-index?   uint8
      |  +--rw group-speed    ipi-if-types:if_port_group_speed_t {feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
      +--ro state
        +--ro group-index?   uint8
        +--ro group-speed    ipi-if-types:if_port_group_speed_t {feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?


  rpcs:
    +---x clear-interface-forward-error-correction-counters
    |  +---w input
    |     +---w if-name    string
    +---x clear-interface-error-disable
    |  +---w input
    |     +---w if-name    string
    +---x interface-sniff-enable {feature-list:HAVE_SNIFF_INTF}?
    |  +---w input
    |     +---w interface-name    string
    |     +---w sniffTime         uint8
    |     +---w sniffAction       ipi-if-types:if_sniff_action_t
    |     +---w sniff1            boolean
    +---x interface-sniff-disable {feature-list:HAVE_SNIFF_INTF}?
      +---w input
        +---w interface-name    string
```


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```
notifications:
  +---n interface-error-disable-notification
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro name?                  string
  |  +--ro error-disable-reason?  ipi-if-types:if_errdisable_state_t
  +---n interface-bandwidth-start
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro name?                  string
  |  +--ro current-bandwidth?     uint64
  +---n interface-bandwidth-upgrade
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro name?                  string
  |  +--ro current-bandwidth?     uint64
  +---n interface-bandwidth-downgrade
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro name?                  string
  |  +--ro current-bandwidth?     uint64
  +---n interface-bandwidth-close
     +--ro severity?              cml-data-types:cml_notif_severity_t
     +--ro eventClass?            cml-data-types:cml_notif_class_t
     +--ro name?                  string
     +--ro current-bandwidth?     uint64
```

ipi-if-flowspec

```
augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw interface-flowspec
     +--rw ipv4
        +--rw config
        |  +--rw flowspec-disable?   empty
```

```
        +--ro state
          +--ro flowspec-disable?   empty
```

ipi-if-ip

```
  +--rw ip-global
    +--rw vrf* [vrf-name] {feature-list:HAVE_VRF}?
    |  +--rw vrf-name    -> ../config/vrf-name
    |  +--rw config
    |  |  +--rw vrf-name?                    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |  |  +--rw disable-ip-vrf-forwarding?     empty
    |  |  +--rw disable-ipv6-vrf-forwarding?   empty {feature-list:HAVE_IPV6}?
    |  |  +--rw enable-icmp-broadcast?         empty
    |  +--ro state
    |     +--ro vrf-name?                    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |     +--ro disable-ip-vrf-forwarding?     empty
    |     +--ro disable-ipv6-vrf-forwarding?   empty {feature-list:HAVE_IPV6}?
    |     +--ro enable-icmp-broadcast?         empty
    +--rw config
    |  +--rw router-id?                         string
    |  +--rw enable-auto-router-id-selection?     empty
    |  +--rw disable-ip-forwarding?               empty
    |  +--rw disable-ipv6-forwarding?             empty {feature-list:HAVE_IPV6}?
    |  +--rw default-vrf-enable-icmp-broadcast?   empty
    +--ro state
       +--ro router-id?                         string
       +--ro enable-auto-router-id-selection?     empty
       +--ro disable-ip-forwarding?               empty
       +--ro disable-ipv6-forwarding?             empty {feature-list:HAVE_IPV6}?
       +--ro default-vrf-enable-icmp-broadcast?   empty

  augment /ipi-interface:interfaces/ipi-interface:interface:
    +--rw ipv4
      +--rw secondary-addresses* [ip-address]
```


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```
    |  +--rw ip-address    -> ../config/ip-address
    |  +--rw config
    |  |  +--rw ip-address?          cml-data-types:cml_ipv4_prefix_t
    |  |  +--rw ip-label?            cml-data-types:cml_line_t
    |  |  +--rw secondary-anycast?   empty
    |  +--ro state
    |     +--ro ip-address?          cml-data-types:cml_ipv4_prefix_t
    |     +--ro ip-label?            cml-data-types:cml_line_t
    |     +--ro secondary-anycast?   empty
    +--rw config
    |  +--rw primary-ip-addr?           cml-data-types:cml_ipv4_prefix_t
    |  +--rw enable-dhcp-ip-address?    empty {feature-list:HAVE_DHCP_CLIENT}?
    |  +--rw prefix-length?             uint8
    |  +--rw ip-addr-label?             cml-data-types:cml_line_t
    |  +--rw ipv4-unnumbered-if-name?   string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
    |  +--rw remote-address?            string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
    |  +--rw primary-anycast?           empty
    +--ro state
       +--ro primary-ip-addr?           cml-data-types:cml_ipv4_prefix_t
       +--ro enable-dhcp-ip-address?    empty {feature-list:HAVE_DHCP_CLIENT}?
       +--ro prefix-length?             uint8
       +--ro ip-addr-label?             cml-data-types:cml_line_t
       +--ro ipv4-unnumbered-if-name?   string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
       +--ro remote-address?            string {feature-list:HAVE_NSM_IF_UNNUMBERED}?
       +--ro primary-anycast?           empty
       +--ro dhcp-ip-adddress?          cml-data-types:cml_ipv4_prefix_t {feature-list:HAVE_DHCP_CLIENT}?
       +--ro ipv4-enabled-status?       boolean
augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw ipv6 {feature-list:HAVE_IPV6}?
     +--rw addresses* [ipv6-address] {feature-list:HAVE_IPV6}?
     |  +--rw ipv6-address    -> ../config/ipv6-address
     |  +--rw config
     |  |  +--rw ipv6-address?   cml-data-types:cml_ipv6_prefix_t
     |  |  +--rw anycast?        empty
     |  +--ro state
     |     +--ro ipv6-address?   cml-data-types:cml_ipv6_prefix_t
```

```
      |    +--ro anycast?        empty
      +--rw config
      |  +--rw ipv6-unnumbered-if-name?             string {feature-list:HAVE_NSM_IF_UNNUMBERED,feature-
list:HAVE_IPV6}?
      |  +--rw enable-dhcp-ipv6-address?            empty {feature-list:HAVE_DHCP_CLIENT}?
      |  +--rw enable-dhcp-temporary-ipv6-address?   empty {feature-list:HAVE_DHCP_CLIENT}?
      |  +--rw dhcp-address-prefix-length?          uint8 {feature-list:HAVE_DHCP_CLIENT}?
      |  +--rw enable-auto-config?                  boolean {feature-list:HAVE_IPV6}?
      |  +--rw max-autoconfig-address?              uint8
      +--ro state
      |  +--ro ipv6-unnumbered-if-name?             string {feature-list:HAVE_NSM_IF_UNNUMBERED,feature-
list:HAVE_IPV6}?
      |  +--ro enable-dhcp-ipv6-address?            empty {feature-list:HAVE_DHCP_CLIENT}?
      |  +--ro enable-dhcp-temporary-ipv6-address?   empty {feature-list:HAVE_DHCP_CLIENT}?
      |  +--ro dhcp-address-prefix-length?          uint8 {feature-list:HAVE_DHCP_CLIENT}?
      |  +--ro enable-auto-config?                  boolean {feature-list:HAVE_IPV6}?
      |  +--ro max-autoconfig-address?              uint8
      |  +--ro dhcp-ipv6-adddress?                  cml-data-types:cml_ipv6_prefix_t {feature-list:HAVE_DHCP_CLIENT}?
      |  +--ro forwarding-status?                   boolean {feature-list:HAVE_IPV6}?
      +--ro auto-addresses {feature-list:HAVE_IPV6}?
        +--ro auto-address* [ipv6-address]
          +--ro ipv6-address    -> ../state/ipv6-address
          +--ro state
            +--ro ipv6-address?   cml-data-types:cml_ipv6_prefix_t
            +--ro anycast?        empty
            +--ro virtual?        empty
            +--ro vrrp?           empty {feature-list:HAVE_VRRP_V3}?
```

ipi-igmp-snooping

```
 +--rw igmp-snooping
    +--rw global
```


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```
|  +--rw config
|  |  +--rw disable-igmp-snooping?        empty
|  |  +--rw disable-report-suppression?   empty
|  |  +--rw unknown-multicast-action?     ipi-igmp-snooping-types:igmp_snoop_unknown_mcast_action_t
|  +--ro state
|     +--ro disable-igmp-snooping?        empty
|     +--ro disable-report-suppression?   empty
|     +--ro unknown-multicast-action?     ipi-igmp-snooping-types:igmp_snoop_unknown_mcast_action_t
+--rw debug
|  +--rw config
|  |  +--rw options?   ipi-igmp-snooping-types:igmp_snoop_debug_options_t
|  +--ro state
|     +--ro options?                ipi-igmp-snooping-types:igmp_snoop_debug_options_t
|     +--ro terminal-debug-status?   ipi-igmp-snooping-types:igmp_snoop_debug_options_t
+--rw interfaces
   +--rw interface* [name]
      +--rw name            -> ../config/name
      +--rw config
      |  +--rw name?                   -> /ipi-interface:interfaces/interface/name
      |  +--rw igmp-snooping?           cml-data-types:cml_enable_disable_t
      |  +--rw enable-fast-leave?       empty
      |  +--rw report-suppression?      cml-data-types:cml_enable_disable_t
      |  +--rw mrouter-interface-name*   -> /ipi-interface:interfaces/interface/name
      |  +--rw enable-querier?          empty
      +--ro state
      |  +--ro name?                   -> /ipi-interface:interfaces/interface/name
      |  +--ro igmp-snooping?           cml-data-types:cml_enable_disable_t
      |  +--ro enable-fast-leave?       empty
      |  +--ro report-suppression?      cml-data-types:cml_enable_disable_t
      |  +--ro mrouter-interface-name*   -> /ipi-interface:interfaces/interface/name
      |  +--ro enable-querier?          empty
      +--rw static-groups
         +--rw ssm-groups
         |  +--rw ssm-group* [group-address source-address interface-name]
         |     +--rw group-address     -> ../config/group-address
         |     +--rw source-address    -> ../config/source-address
```

```
|    +--rw interface-name    -> ../config/interface-name
|    +--rw config
|    | +--rw group-address?    inet:ipv4-address
|    | +--rw interface-name?   string
|    | +--rw source-address?   inet:ipv4-address
|    +--ro state
|      +--ro group-address?    inet:ipv4-address
|      +--ro interface-name?   string
|      +--ro source-address?   inet:ipv4-address
+--rw asm-groups
  +--rw asm-group* [group-address interface-name]
    +--rw group-address     -> ../config/group-address
    +--rw interface-name    -> ../config/interface-name
    +--rw config
    | +--rw group-address?    inet:ipv4-address
    | +--rw interface-name?   string
    +--ro state
      +--ro group-address?    inet:ipv4-address
      +--ro interface-name?   string

rpcs:
  +---x igmp-snooping-clear-group-interface {feature-list:HAVE_L2MRIBD}?
  | +---w input
  |    +---w group-address     inet:ipv4-address
  |    +---w interface-name    string
  +---x igmp-snooping-clear-interface {feature-list:HAVE_L2MRIBD}?
  | +---w input
  |    +---w interface-name    string
  +---x igmp-snooping-clear-all {feature-list:HAVE_L2MRIBD}?
  +---x igmp-snooping-clear-group {feature-list:HAVE_L2MRIBD}?
  | +---w input
  |    +---w group-address    inet:ipv4-address
  +---x igmp-snooping-terminal-debug-on {feature-list:HAVE_L2MRIBD}?
  | +---w input
  |    +---w terminal-debug-options    ipi-igmp-snooping-types:igmp_snoop_debug_options_t
  +---x igmp-snooping-terminal-debug-off {feature-list:HAVE_L2MRIBD}?
```


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```
  +---w input
    +---w terminal-debug-options    ipi-igmp-snooping-types:igmp_snoop_debug_options_t
```

ipi-igmp

```
+--rw igmp
  +--rw vrfs
  |  +--rw vrf* [vrf-name]
  |     +--rw vrf-name                  -> ../config/vrf-name
  |     +--rw config
  |     |  +--rw vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |     |  +--rw disable-ssm-map?     empty
  |     |  +--rw disable-tos-check?   empty
  |     +--ro state
  |     |  +--ro vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |     |  +--ro disable-ssm-map?     empty
  |     |  +--ro disable-tos-check?   empty
  |     +--rw group-membership-control
  |     |  +--rw config
  |     |  |  +--rw member-limit?          uint32
  |     |  |  +--rw limit-exception-acl?   string
  |     |  +--ro state
  |     |     +--ro member-limit?          uint32
  |     |     +--ro limit-exception-acl?    string
  |     |     +--ro current-states-count?   uint32
  |     +--rw ssm
  |     |  +--rw static-mappings
  |     |     +--rw static-mapping* [group-ranges-acl source]
  |     |        +--rw group-ranges-acl    -> ../config/group-ranges-acl
  |     |        +--rw source              -> ../config/source
  |     |        +--rw config
  |     |        |  +--rw group-ranges-acl?   string
  |     |        |  +--rw source?             inet:ipv4-address
  |     |        +--ro state
  |     |           +--ro group-ranges-acl?   string
```

```
|    |          +--ro source?             inet:ipv4-address
|    +--rw debug
|       +--rw config
|       | +--rw options?   ipi-igmp-types:igmp_debug_options_t
|       +--ro state
|         +--ro options?                ipi-igmp-types:igmp_debug_options_t
|         +--ro terminal-debug-status?   ipi-igmp-types:igmp_debug_options_t
+--rw interfaces
| +--rw interface* [name]
|    +--rw name                      -> ../config/name
|    +--rw config
|    | +--rw name?                       -> /ipi-interface:interfaces/interface/name
|    | +--rw enabled?                     empty
|    | +--rw last-member-query-count?       uint8
|    | +--rw last-member-query-interval?    uint16
|    | +--rw querier-timeout?               uint16
|    | +--rw query-interval?                uint16
|    | +--rw query-max-response-time?       uint8
|    | +--rw startup-query-interval?        uint16
|    | +--rw startup-query-count?           uint8
|    | +--rw robustness-variable?           uint8
|    | +--rw version?                      uint8
|    | +--rw require-router-alert-option?   empty
|    | +--rw allow-offlink-host?            empty
|    | +--rw offlink-log-suppress?          empty
|    +--ro state
|    | +--ro counters
|    | | +--ro v1-reports-received?     yang:counter32
|    | | +--ro v2-reports-received?     yang:counter32
|    | | +--ro v2-leaves-received?      yang:counter32
|    | | +--ro v3-reports-received?     yang:counter32
|    | | +--ro current-group-records?   yang:counter32
|    | +--ro internet-address?              inet:ipv4-address
|    | +--ro oper-status?                  ipi-igmp-types:igmp_if_oper_status_t
|    | +--ro host-version?                  uint8
|    | +--ro is-querier?                   boolean
```


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```
|   | +--ro querying-router?              inet:ipv4-address
|   | +--ro group-membership-interval?    uint32
|   | +--ro name?                         -> /ipi-interface:interfaces/interface/name
|   | +--ro enabled?                      empty
|   | +--ro last-member-query-count?      uint8
|   | +--ro last-member-query-interval?   uint16
|   | +--ro querier-timeout?              uint16
|   | +--ro query-interval?               uint16
|   | +--ro query-max-response-time?      uint8
|   | +--ro startup-query-interval?       uint16
|   | +--ro startup-query-count?          uint8
|   | +--ro robustness-variable?          uint8
|   | +--ro version?                      uint8
|   | +--ro require-router-alert-option?  empty
|   | +--ro allow-offlink-host?           empty
|   | +--ro offlink-log-suppress?         empty
|   +--rw proxy
|   | +--rw config
|   | | +--rw enable-proxy-service?       empty
|   | | +--rw mroute-proxy-interface?     string
|   | | +--rw unsolicited-report-interval?  uint16
|   | +--ro state
|   |   +--ro enable-proxy-service?       empty
|   |   +--ro mroute-proxy-interface?     string
|   |   +--ro unsolicited-report-interval?  uint16
|   |   +--ro oper-status?                ipi-igmp-types:igmp_proxy_if_oper_status_t
|   +--rw group-membership-control
|   | +--rw config
|   | | +--rw access-group-name?          string
|   | | +--rw immediate-leave-groups-list?  string
|   | | +--rw member-limit?               uint32
|   | | +--rw limit-exception-acl?        string
|   | +--ro state
|   |   +--ro access-group-name?          string
|   |   +--ro immediate-leave-groups-list?  string
|   |   +--ro member-limit?               uint32
```

```
|    |    +--ro limit-exception-acl?          string
|    +--rw asm-static-groups
|    |  +--rw asm-static-group* [group-address]
|    |    +--rw group-address    -> ../config/group-address
|    |    +--rw config
|    |    |  +--rw group-address?   inet:ipv4-address
|    |    +--ro state
|    |       +--ro group-address?   inet:ipv4-address
|    +--rw ssm-static-groups
|    |  +--rw ssm-static-group* [group-address source]
|    |    +--rw group-address    -> ../config/group-address
|    |    +--rw source           -> ../config/source
|    |    +--rw config
|    |    |  +--rw group-address?   inet:ipv4-address
|    |    |  +--rw source?         ipi-igmp-types:igmp_static_ssm_source_t
|    |    +--ro state
|    |       +--ro group-address?   inet:ipv4-address
|    |       +--ro source?         ipi-igmp-types:igmp_static_ssm_source_t
|    +--rw asm-join-groups
|    |  +--rw asm-join-group* [group-address]
|    |    +--rw group-address    -> ../config/group-address
|    |    +--rw config
|    |    |  +--rw group-address?   inet:ipv4-address
|    |    +--ro state
|    |       +--ro group-address?   inet:ipv4-address
|    +--rw ssm-join-groups
|       +--rw ssm-join-group* [group-address source]
|          +--rw group-address    -> ../config/group-address
|          +--rw source           -> ../config/source
|          +--rw config
|          |  +--rw group-address?   inet:ipv4-address
|          |  +--rw source?         inet:ipv4-address
|          +--ro state
|             +--ro group-address?   inet:ipv4-address
|             +--ro source?         inet:ipv4-address
+--ro group-membership-tree
```


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```
+--ro igmp-instances
  +--ro igmp-instance* [vrf-name]
    +--ro vrf-name      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    +--ro interfaces
      +--ro interface* [if-name]
        +--ro if-name          -> /ipi-interface:interfaces/interface/name
        +--ro member-groups
        |  +--ro member-group* [group-address]
        |     +--ro group-address      -> ../state/group-address
        |     +--ro state
        |     |  +--ro group-address?    inet:ipv4-address
        |     |  +--ro dynamic-remote?   empty
        |     |  +--ro static-group?     empty
        |     |  +--ro local?            empty
        |     |  +--ro ssm-mapped?       empty
        |     |  +--ro static-source?    empty
        |     |  +--ro up-time?          string
        |     |  +--ro group-mode?       ipi-igmp-types:igmp_ssm_group_mode_t
        |     |  +--ro expiry?           string
        |     |  +--ro last-reporter?    inet:ipv4-address
        |     +--ro include-sources
        |     |  +--ro include-source* [source-address]
        |     |     +--ro source-address    -> ../state/source-address
        |     |     +--ro state
        |     |        +--ro source-address?   inet:ipv4-address
        |     |        +--ro dynamic-remote?   empty
        |     |        +--ro static-source?    empty
        |     |        +--ro local?            empty
        |     |        +--ro ssm-mapped?       empty
        |     |        +--ro up-time?          string
        |     |        +--ro expiry?           string
        |     |        +--ro is-forwarded?     ipi-igmp-types:igmp_yes_no_t
        |     +--ro exclude-sources
        |        +--ro exclude-source* [source-address]
        |           +--ro source-address    -> ../state/source-address
        |           +--ro state
```

```
|            +--ro source-address?   inet:ipv4-address
|            +--ro dynamic-remote?   empty
|            +--ro static-source?    empty
|            +--ro local?            empty
|            +--ro ssm-mapped?       empty
|            +--ro up-time?          string
|            +--ro expiry?           string
|            +--ro is-forwarded?     ipi-igmp-types:igmp_yes_no_t
          +--ro proxy-groups
            +--ro proxy-group* [group-address]
              +--ro group-address    -> ../state/group-address
              +--ro state
                +--ro group-address?       inet:ipv4-address
                +--ro proxy-interface?     string
                +--ro group-mode?          ipi-igmp-types:igmp_ssm_group_mode_t
                +--ro state?               ipi-igmp-types:igmp_if_state_t
                +--ro membership-state?    ipi-igmp-types:igmp_proxy_grp_membership_state_t
                +--ro multicast-sources*   inet:ipv4-address

rpcs:
  +---x igmp-terminal-debug-on {feature-list:HAVE_MRIBD}?
  |  +---w input
  |     +---w vrf-name?                string
  |     +---w terminal-debug-options    ipi-igmp-types:igmp_debug_options_t
  +---x igmp-terminal-debug-off {feature-list:HAVE_MRIBD}?
  |  +---w input
  |     +---w vrf-name?                string
  |     +---w terminal-debug-options    ipi-igmp-types:igmp_debug_options_t
  +---x igmp-clear-all-groups {feature-list:HAVE_MRIBD}?
  |  +---w input
  |     +---w vrf-name?    string
  |     +---w clear-all    empty
  +---x igmp-clear-group-on-interface {feature-list:HAVE_MRIBD}?
  |  +---w input
  |     +---w vrf-name?        string
  |     +---w group-address    inet:ipv4-address
```


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```
|    +---w if-name          string
+---x igmp-clear-all-groups-on-interface {feature-list:HAVE_MRIBD}?
|  +---w input
|    +---w vrf-name?   string
|    +---w if-name     string
+---x igmp-clear-group {feature-list:HAVE_MRIBD}?
   +---w input
      +---w vrf-name?        string
      +---w group-address    inet:ipv4-address
```

ipi-igp-te

```
+--rw igp-te
  +--rw interfaces
    +--rw interface* [name]
      +--rw name        -> ../config/name
      +--rw config
      |  +--rw name?   -> /ipi-interface:interfaces/interface/name
      +--ro state
      |  +--ro name?   -> /ipi-interface:interfaces/interface/name
      +--rw uni-link
        +--rw config
        |  +--rw delay?             uint32
        |  +--rw delay-variation?   uint32
        |  +--rw loss-percentage?   decimal64
        +--ro state
        |  +--ro delay?             uint32
        |  +--ro delay-variation?   uint32
        |  +--ro loss-percentage?   decimal64
        +--rw twamp-loss-parameter {feature-list:HAVE_TWAMP}?
        |  +--rw config
        |  |  +--rw loss-dynamic?   empty
        |  +--ro state
        |     +--ro loss-dynamic?   empty
        +--rw irb-twamp-loss-parameter {feature-list:HAVE_TWAMP}?
        |  +--rw config
```

```
| | +--rw loss-dynamic?   empty
| +--ro state
|    +--ro loss-dynamic?   empty
+--rw twamp-session-parameters {feature-list:HAVE_TWAMP}?
| +--rw twamp-session-parameter* [reflector-ip]
| | +--rw reflector-ip    -> ../config/reflector-ip
| | +--rw config
| | | +--rw reflector-ip?     cml-data-types:cml_hostpname_t
| | | +--rw reflector-port?   ipi-twamp-types:twamp_udp_port_t
| | | +--rw sender-ip?        cml-data-types:cml_hostpname_t
| | | +--rw sender-port?      ipi-twamp-types:twamp_udp_port_t
| | | +--rw dscp?             string
| | +--ro state
| | | +--ro reflector-ip?     cml-data-types:cml_hostpname_t
| | | +--ro reflector-port?   ipi-twamp-types:twamp_udp_port_t
| | | +--ro sender-ip?        cml-data-types:cml_hostpname_t
| | | +--ro sender-port?      ipi-twamp-types:twamp_udp_port_t
| | | +--ro dscp?             string
| | +--ro statistics
| |    +--ro state
| |       +--ro last-advertised-calculation-time?          yang:date-and-time
| |       +--ro last-advertised-minimum-delay?             uint64
| |       +--ro last-advertised-maximum-delay?             uint64
| |       +--ro last-advertised-average-delay?             uint64
| |       +--ro last-advertised-minimum-delay-variation?   uint64
| |       +--ro last-advertised-maximum-delay-variation?   uint64
| |       +--ro last-advertised-average-delay-variation?   uint64
| |       +--ro last-advertised-packets-sent?              yang:counter64
| |       +--ro last-advertised-packets-received?          yang:counter64
| |       +--ro last-advertised-packets-timeout?           yang:counter64
| |       +--ro last-advertised-packet-loss?               decimal64
| |       +--ro last-calculated-calculation-time?          yang:date-and-time
| |       +--ro last-calculated-minimum-delay?             uint64
| |       +--ro last-calculated-maximum-delay?             uint64
| |       +--ro last-calculated-average-delay?             uint64
| |       +--ro last-calculated-minimum-delay-variation?   uint64
```


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```
| |       +--ro last-calculated-maximum-delay-variation?   uint64
| |       +--ro last-calculated-average-delay-variation?   uint64
| |       +--ro last-calculated-packets-sent?              yang:counter64
| |       +--ro last-calculated-packets-received?          yang:counter64
| |       +--ro last-calculated-packets-timeout?           yang:counter64
| |       +--ro last-calculated-packet-loss?               decimal64
| +--rw irb-twamp-session-parameter* [reflector-ip]
|    +--rw reflector-ip    -> ../config/reflector-ip
|    +--rw config
|    |  +--rw reflector-ip?     cml-data-types:cml_hostpname_t
|    |  +--rw reflector-port?   ipi-twamp-types:twamp_udp_port_t
|    |  +--rw sender-ip?        cml-data-types:cml_hostpname_t
|    |  +--rw sender-port?      ipi-twamp-types:twamp_udp_port_t
|    |  +--rw dscp?             string
|    +--ro state
|    |  +--ro reflector-ip?     cml-data-types:cml_hostpname_t
|    |  +--ro reflector-port?   ipi-twamp-types:twamp_udp_port_t
|    |  +--ro sender-ip?        cml-data-types:cml_hostpname_t
|    |  +--ro sender-port?      ipi-twamp-types:twamp_udp_port_t
|    |  +--ro dscp?             string
|    +--ro statistics
|       +--ro state
|          +--ro last-advertised-calculation-time?         yang:date-and-time
|          +--ro last-advertised-minimum-delay?            uint64
|          +--ro last-advertised-maximum-delay?            uint64
|          +--ro last-advertised-average-delay?            uint64
|          +--ro last-advertised-minimum-delay-variation?   uint64
|          +--ro last-advertised-maximum-delay-variation?   uint64
|          +--ro last-advertised-average-delay-variation?   uint64
|          +--ro last-advertised-packets-sent?             yang:counter64
|          +--ro last-advertised-packets-received?         yang:counter64
|          +--ro last-advertised-packets-timeout?          yang:counter64
|          +--ro last-advertised-packet-loss?              decimal64
|          +--ro last-calculated-calculation-time?         yang:date-and-time
|          +--ro last-calculated-minimum-delay?            uint64
|          +--ro last-calculated-maximum-delay?            uint64
```

```
|          +--ro last-calculated-average-delay?             uint64
|          +--ro last-calculated-minimum-delay-variation?   uint64
|          +--ro last-calculated-maximum-delay-variation?   uint64
|          +--ro last-calculated-average-delay-variation?   uint64
|          +--ro last-calculated-packets-sent?              yang:counter64
|          +--ro last-calculated-packets-received?          yang:counter64
|          +--ro last-calculated-packets-timeout?           yang:counter64
|          +--ro last-calculated-packet-loss?              decimal64
+--rw delay-threshold
|  +--rw a-bit* [a-bit-min a-bit-max]
|     +--rw a-bit-min    -> ../config/a-bit-min
|     +--rw a-bit-max    -> ../config/a-bit-max
|     +--rw config
|     |  +--rw a-bit-min?   uint32
|     |  +--rw a-bit-max?   uint32
|     +--ro state
|        +--ro a-bit-min?   uint32
|        +--ro a-bit-max?   uint32
+--rw min-max-delay
|  +--rw delay* [min-value max-value]
|     +--rw min-value    -> ../config/min-value
|     +--rw max-value    -> ../config/max-value
|     +--rw config
|     |  +--rw min-value?   uint32
|     |  +--rw max-value?   uint32
|     +--ro state
|        +--ro min-value?   uint32
|        +--ro max-value?   uint32
+--rw loss
|  +--rw threshold* [loss-a-bit-min loss-a-bit-max]
|     +--rw loss-a-bit-min    -> ../config/loss-a-bit-min
|     +--rw loss-a-bit-max    -> ../config/loss-a-bit-max
|     +--rw config
|     |  +--rw loss-a-bit-min?   decimal64
|     |  +--rw loss-a-bit-max?   decimal64
|     +--ro state
```


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```
|       +--ro loss-a-bit-min?   decimal64
|       +--ro loss-a-bit-max?   decimal64
+--rw min-max-delay-threshold
  +--rw a-bit* [a-bit-min-range-minimum a-bit-min-range-maximum a-bit-max-range-minimum a-bit-max-range-maximum]
     +--rw a-bit-min-range-minimum    -> ../config/a-bit-min-range-minimum
     +--rw a-bit-min-range-maximum    -> ../config/a-bit-min-range-maximum
     +--rw a-bit-max-range-minimum    -> ../config/a-bit-max-range-minimum
     +--rw a-bit-max-range-maximum    -> ../config/a-bit-max-range-maximum
     +--rw config
     |  +--rw a-bit-min-range-minimum?   uint32
     |  +--rw a-bit-min-range-maximum?   uint32
     |  +--rw a-bit-max-range-minimum?   uint32
     |  +--rw a-bit-max-range-maximum?   uint32
     +--ro state
        +--ro a-bit-min-range-minimum?   uint32
        +--ro a-bit-min-range-maximum?   uint32
        +--ro a-bit-max-range-minimum?   uint32
        +--ro a-bit-max-range-maximum?   uint32

rpcs:
  +---x twamp-clear-measurement-intf {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w interface-name    string
  +---x twamp-clear-measurement-all {feature-list:HAVE_TWAMP}?

notifications:
  +---n delay-measurement-status {feature-list:HAVE_TWAMP}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n twamp-delay-measurement-threshold-crossed {feature-list:HAVE_TWAMP}?
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro reflector-ip?                cml-data-types:cml_hostpname_t
  |  +--ro name?                        string
  |  +--ro last-calculated-average-delay?   uint64
```

```
   +---n twamp-delay-measurement-loss-changed {feature-list:HAVE_TWAMP}?
      +--ro severity?                    cml-data-types:cml_notif_severity_t
      +--ro eventClass?                  cml-data-types:cml_notif_class_t
      +--ro reflector-ip?                cml-data-types:cml_hostpname_t
      +--ro name?                        string
      +--ro last-advertised-packet-loss?   decimal64
```

ipi-interface

```
  +--rw interfaces
     +--rw interface* [name]
        +--rw name                -> ../config/name
        +--rw config
        |  +--rw name?                   string
        |  +--rw enable-switchport?         empty
        |  +--rw vrf-name?               -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
        |  +--rw vr-name?                  string {feature-list:HAVE_VR}?
        |  +--rw type?                   ipi-if-types:if_iana_if_type_t
        |  +--rw mtu?                    uint32
        |  +--rw dot1ad-ether-type?         string {feature-list:HAVE_VLAN_STACK,feature-list:NOT_HAVE_SWFWDR}?
        |  +--rw domain-fastflush-config?   empty {feature-list:HAVE_DNX}?
        |  +--rw protected-port?            ipi-if-types:if_protected_port_type_t {feature-list:HAVE_DUNE}?
        |  +--rw bridge-domain-forward?     empty {feature-list:HAVE_DUNE}?
        |  +--rw phy-link-training?         ipi-if-types:if_port_phy_settings_t
        |  +--rw phy-dfe?                   ipi-if-types:if_port_phy_settings_t
        |  +--rw phy-unreliable-los?        ipi-if-types:if_port_phy_settings_t
        |  +--rw phy-media?                 ipi-if-types:if_port_phy_media_settings_t
        |  +--rw description?               cml-data-types:cml_line_t
        |  +--rw shutdown?                  empty
        +--ro state
        |  +--ro name?                   string
        |  +--ro enable-switchport?         empty
        |  +--ro vrf-name?               -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
        |  +--ro vr-name?                  string {feature-list:HAVE_VR}?
```


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```
|  +--ro type?                    ipi-if-types:if_iana_if_type_t
|  +--ro mtu?                     uint32
|  +--ro dot1ad-ether-type?       string {feature-list:HAVE_VLAN_STACK,feature-list:NOT_HAVE_SWFWDR}?
|  +--ro domain-fastflush-config?   empty {feature-list:HAVE_DNX}?
|  +--ro protected-port?          ipi-if-types:if_protected_port_type_t {feature-list:HAVE_DUNE}?
|  +--ro bridge-domain-forward?     empty {feature-list:HAVE_DUNE}?
|  +--ro phy-link-training?       ipi-if-types:if_port_phy_settings_t
|  +--ro phy-dfe?                 ipi-if-types:if_port_phy_settings_t
|  +--ro phy-unreliable-los?      ipi-if-types:if_port_phy_settings_t
|  +--ro phy-media?               ipi-if-types:if_port_phy_media_settings_t
|  +--ro description?             cml-data-types:cml_line_t
|  +--ro shutdown?                empty
|  +--ro ifindex?                 uint32
|  +--ro admin-status?            ipi-if-types:if_interface_admin_status_t
|  +--ro oper-status?             ipi-if-types:if_interface_oper_status_t
|  +--ro last-change?             yang:timeticks
|  +--ro logical?                 boolean
|  +--ro counters
|     +--ro in-octets?            yang:counter64
|     +--ro in-pkts?              yang:counter64
|     +--ro in-unicast-pkts?      yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|     +--ro in-broadcast-pkts?    yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|     +--ro in-multicast-pkts?    yang:counter64
|     +--ro in-discards?          yang:counter64
|     +--ro in-errors?            yang:counter64
|     +--ro in-fcs-errors?        yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|     +--ro out-octets?           yang:counter64
|     +--ro out-pkts?             yang:counter64
|     +--ro out-unicast-pkts?     yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|     +--ro out-broadcast-pkts?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|     +--ro out-multicast-pkts?   yang:counter64 {feature-list:HAVE_BROADCOM,feature-list:HAVE_HAL,feature-
list:NOT_HAVE_SWFWDR}?
|     +--ro out-discards?         yang:counter64
```

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```
      |    +--ro out-errors?           yang:counter64
      |    +--ro last-clear?           ipi-if-types:if_last_clear_time_t
      +--rw interface-loopback
        +--rw config!
        | +--rw if-loopback          ipi-if-types:if_loopback_dir_type_t
        | +--rw if-loopback-level    ipi-if-types:if_loopback_type_t
        +--ro state
          +--ro if-loopback          ipi-if-types:if_loopback_dir_type_t
          +--ro if-loopback-level    ipi-if-types:if_loopback_type_t

rpcs:
 +---x clear-interface-counters
    +---w input
      +---w name    string

notifications:
 +---n interface-link-state-change-notification
    +--ro severity?      cml-data-types:cml_notif_severity_t
    +--ro eventClass?    cml-data-types:cml_notif_class_t
    +--ro name?          string
    +--ro oper-status?   ipi-if-types:if_interface_oper_status_t
```

ipi-ip-sla

```
+--rw ip-sla
   +--rw processes
   | +--rw process* [identifier]
   |    +--rw identifier             -> ../config/identifier
   |    +--rw config
   |    | +--rw identifier?   uint16
   |    +--ro state
   |    | +--ro identifier?   uint16
   |    +--ro ip-sla-statistics
   |    | +--ro state
   |    |    +--ro destination?              string
   |    |    +--ro start-time?               yang:date-and-time
```


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```
|    |    +--ro elapsed-time?              uint64
|    |    +--ro packets-sent?              uint64
|    |    +--ro packets-received?          uint64
|    |    +--ro packets-lost?              decimal64
|    |    +--ro invalid-tests?             uint32
|    |    +--ro minimum-round-trip-delay?  uint64
|    |    +--ro maximum-round-trip-delay?  uint64
|    |    +--ro average-round-trip-delay?  uint64
|    |    +--ro return-code?               string
|    |    +--ro last-run-time?             yang:date-and-time
|    +--rw icmp-echo-processes
|       +--rw icmp-echo-process* [host]
|          +--rw host      -> ../config/host
|          +--rw config
|          |  +--rw host?              ip_sla_hostname_t
|          |  +--rw source-interface?  string
|          |  +--rw source-ip?         inet:ip-address
|          |  +--rw frequency?         uint8
|          |  +--rw timeout?           uint16
|          |  +--rw threshold?         uint16
|          +--ro state
|             +--ro host?              ip_sla_hostname_t
|             +--ro source-interface?  string
|             +--ro source-ip?         inet:ip-address
|             +--ro frequency?         uint8
|             +--ro timeout?           uint16
|             +--ro threshold?         uint16
+--rw scheduled-processes
   +--rw scheduled-process* [scheduled-pid time-range-name]
      +--rw scheduled-pid      -> ../config/scheduled-pid
      +--rw time-range-name    -> ../config/time-range-name
      +--rw config
      |  +--rw scheduled-pid?     -> /ip-sla/processes/process/config/identifier
      |  +--rw time-range-name?   string
      |  +--rw vrf-name?          string
      +--ro state
```

```
        +--ro scheduled-pid?     -> /ip-sla/processes/process/config/identifier
        +--ro time-range-name?   string
        +--ro vrf-name?          string

 rpcs:
  +---x ip-sla-clear-statistics {feature-list:HAVE_IPSLA,feature-list:HAVE_BFD}?
    +---w input
      +---w identifier    uint16

 notifications:
  +---n icmp-echo-threshold {feature-list:HAVE_IPSLA}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro host?         ip_sla_hostname_t
  |  +--ro identifier?   uint16
  |  +--ro threshold?    uint16
  +---n icmp-echo-timeout {feature-list:HAVE_IPSLA}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro host?         ip_sla_hostname_t
  |  +--ro identifier?   uint16
  |  +--ro timeout?      uint16
  +---n icmp-echo-disconnect {feature-list:HAVE_IPSLA}?
    +--ro severity?     cml-data-types:cml_notif_severity_t
    +--ro eventClass?   cml-data-types:cml_notif_class_t
    +--ro identifier?   uint16
```

ipi-ipsec

```
+--rw ipsec {feature-list:HAVE_IPSEC}?
  +--rw transform-sets
  |  +--rw transform-set* [transform-set-name]
  |     +--rw transform-set-name    -> ../config/transform-set-name
  |     +--rw config
```


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```
|    | +--rw transform-set-name?   string
|    | +--rw transform-set-mode?   ipi-ipsec-types:ipsec_ts_mode_t
|    +--ro state
|    | +--ro transform-set-name?       string
|    | +--ro transform-set-mode?       ipi-ipsec-types:ipsec_ts_mode_t
|    | +--ro transform-set-protocol?   ipi-ipsec-types:ipsec_ts_protocol_t
|    +--rw ah-auth
|    | +--rw config
|    | | +--rw ah-authentication?   ipi-ipsec-types:ipsec_ah_authentication_t
|    | +--ro state
|    |    +--ro ah-authentication?   ipi-ipsec-types:ipsec_ah_authentication_t
|    +--rw esp-auth
|       +--rw config!
|       | +--rw esp-authentication    ipi-ipsec-types:ipsec_esp_authentication_t
|       | +--rw esp-encryption        ipi-ipsec-types:ipsec_esp_encryption_t
|       +--ro state
|          +--ro esp-authentication    ipi-ipsec-types:ipsec_esp_authentication_t
|          +--ro esp-encryption        ipi-ipsec-types:ipsec_esp_encryption_t
+--rw crypto-maps
   +--rw crypto-map* [name]
      +--rw name        -> ../config/name
      +--rw config
      | +--rw name?      string
      | +--rw sa-type    ipi-ipsec-types:ipsec_sa_type_t
      +--ro state
      | +--ro name?      string
      | +--ro sa-type    ipi-ipsec-types:ipsec_sa_type_t
      +--rw sessions
         +--rw session* [sequence-id]
            +--rw sequence-id       -> ../config/sequence-id
            +--rw config
            | +--rw sequence-id?   uint16
            +--ro state
            | +--ro sequence-id?   uint16
            +--rw transform-sets
            | +--rw transform-set* [transform-set-name]
```

```
|    +--rw transform-set-name    -> ../config/transform-set-name
|    +--rw config
|    | +--rw transform-set-name?   -> /ipsec/transform-sets/transform-set/transform-set-name
|    +--ro state
|      +--ro transform-set-name?   -> /ipsec/transform-sets/transform-set/transform-set-name
+--rw peer-addresses
| +--rw peer-address* [peer]
|    +--rw peer      -> ../config/peer
|    +--rw config
|    | +--rw peer?   inet:ip-address
|    | +--rw spi     ipi-ipsec-types:ipsec_peer_spi_t
|    +--ro state
|      +--ro peer?   inet:ip-address
|      +--ro spi     ipi-ipsec-types:ipsec_peer_spi_t
+--rw session-keys
  +--rw session-key* [direction protocol security-parameter-index]
    +--rw direction                -> ../config/direction
    +--rw protocol                 -> ../config/protocol
    +--rw security-parameter-index    -> ../config/security-parameter-index
    +--rw config
    | +--rw direction?                ipi-ipsec-types:ipsec_session_key_direction_t
    | +--rw protocol?                 ipi-ipsec-types:ipsec_session_key_protocol_t
    | +--rw security-parameter-index?   uint16
    | +--rw cipher                   string
    | +--rw authentication-key         string
    +--ro state
      +--ro direction?                ipi-ipsec-types:ipsec_session_key_direction_t
      +--ro protocol?                 ipi-ipsec-types:ipsec_session_key_protocol_t
      +--ro security-parameter-index?   uint16
      +--ro cipher                   string
      +--ro authentication-key         string
```

ipi-ipv6-router-adv

```
+--rw router-advertisement {feature-list:HAVE_RTADV}?
  +--rw interfaces
```


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```
+--rw interface* [name]
  +--rw name             -> ../config/name
  +--rw config
  |  +--rw name?               -> /ipi-interface:interfaces/interface/name
  |  +--rw suppress-ra?         empty
  |  +--rw suppress-ra-mtu?     empty
  |  +--rw managed-flag?        empty
  |  +--rw other-config-flag?   empty
  |  +--rw current-hop-limit?   uint8
  |  +--rw link-mtu?            uint32
  |  +--rw dad-attempts?        uint16
  +--ro state
  |  +--ro name?               -> /ipi-interface:interfaces/interface/name
  |  +--ro suppress-ra?         empty
  |  +--ro suppress-ra-mtu?     empty
  |  +--ro managed-flag?        empty
  |  +--ro other-config-flag?   empty
  |  +--ro current-hop-limit?   uint8
  |  +--ro link-mtu?            uint32
  |  +--ro dad-attempts?        uint16
  +--rw ipv6-prefixes
  |  +--rw config
  |  |  +--rw off-link?               empty
  |  |  +--rw no-auto-configuration?   empty
  |  |  +--rw valid-lifetime?          uint32
  |  |  +--rw preferred-lifetime?      uint32
  |  +--ro state
  |  |  +--ro off-link?               empty
  |  |  +--ro no-auto-configuration?   empty
  |  |  +--ro valid-lifetime?          uint32
  |  |  +--ro preferred-lifetime?      uint32
  |  +--rw ipv6-prefix* [ipv6-address]
  |     +--rw ipv6-address    -> ../config/ipv6-address
  |     +--rw config
  |     |  +--rw ipv6-address?           cml-data-types:cml_ipv6_prefix_t
  |     |  +--rw valid-lifetime?         uint32
```

```
|    | +--rw preferred-lifetime?      uint32
|    | +--rw off-link?                empty
|    | +--rw no-auto-configuration?   empty
|    +--ro state
|       +--ro ipv6-address?           cml-data-types:cml_ipv6_prefix_t
|       +--ro valid-lifetime?         uint32
|       +--ro preferred-lifetime?     uint32
|       +--ro off-link?               empty
|       +--ro no-auto-configuration?  empty
+--rw timers
  +--rw config
  | +--rw reachable-time?        uint32
  | +--rw retransmission-time?   uint32
  | +--rw router-lifetime?       uint16
  +--ro state
  | +--ro reachable-time?        uint32
  | +--ro retransmission-time?   uint32
  | +--ro router-lifetime?       uint16
  | +--ro random-interval?       uint32
  | +--ro time-remaining?        uint32
  +--rw ra-interval
    +--rw config!
    | +--rw max-ra-interval    uint32
    | +--rw min-ra-interval    uint32
    +--ro state
      +--ro max-ra-interval    uint32
      +--ro min-ra-interval    uint32
```


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ipi-isis

```
+--rw isis
  +--rw isis-instances
  |  +--rw isis-instance* [instance]
  |     +--rw instance                          -> ../config/instance
  |     +--ro ipv4-route* [destination-prefix]
  |     |  +--ro destination-prefix    -> ../state/destination-prefix
  |     |  +--ro nexthop* [nexthop-ip]
  |     |  |  +--ro nexthop-ip    -> ../state/nexthop-ip
  |     |  |  +--ro state
  |     |  |     +--ro nexthop-ip?            inet:ipv4-address
  |     |  |     +--ro outgoing-interface?     string
  |     |  |     +--ro redistribute-map-tag?   uint32
  |     |  |     +--ro source-identifier?      string
  |     |  |     +--ro out-label?              uint32 {feature-list:HAVE_ISIS_SR}?
  |     |  +--ro state
  |     |     +--ro destination-prefix?                 cml-data-types:cml_ipv4_addr_prefix_t
  |     |     +--ro destination-path-metric?            uint32
  |     |     +--ro destination-path-type?              string
  |     |     +--ro is-destination-path-type-external?   boolean
  |     |     +--ro tunnel-lsp-metric?                  uint32 {feature-list:HAVE_MPLS}?
  |     |     +--ro tunnel-lsp-tunnel-identifier?       uint32 {feature-list:HAVE_MPLS}?
  |     |     +--ro tunnel-lsp-tunnel-endpoint?         inet:ipv4-address {feature-list:HAVE_MPLS}?
  |     |     +--ro ilm-id?                            uint32 {feature-list:HAVE_ISIS_SR}?
  |     |     +--ro ftn-id?                            uint32 {feature-list:HAVE_ISIS_SR}?
  |     |     +--ro in-label?                           uint32 {feature-list:HAVE_ISIS_SR}?
  |     +--ro ipv6-route* [destination-prefix]
  |     |  +--ro destination-prefix    -> ../state/destination-prefix
  |     |  +--ro nexthop* [nexthop-ip]
  |     |  |  +--ro nexthop-ip    -> ../state/nexthop-ip
  |     |  |  +--ro state
  |     |  |     +--ro nexthop-ip?            inet:ipv6-address
  |     |  |     +--ro outgoing-interface?     string
  |     |  |     +--ro redistribute-map-tag?   uint32
```

```
    |    | +--ro state
    |    |    +--ro destination-prefix?                cml-data-types:cml_ipv6_prefix_t
    |    |    +--ro destination-path-metric?           uint32
    |    |    +--ro destination-path-type?             string
    |    |    +--ro is-destination-path-type-external?   boolean
    |    +--rw config
    |    | +--rw instance?                          string
    |    | +--rw distance?                          uint8
    |    | +--rw vrf-name                        -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
    |    | +--rw dynamic-host-name?                   ipi-isis-types:isis_dynamic_hostanme_t
    |    | +--rw disable-adjacency-check?               empty
    |    | +--rw disable-asla-usage-flex-algo?          empty
    |    | +--rw enable-asla-strict-flex-algo?          empty
    |    | +--rw enable-asla-usage-all-apps?            empty
    |    | +--rw enable-flex-algo-routing?              empty
    |    | +--rw enable-flex-algo-readvertise?          empty
    |    | +--rw disable-flex-algo-cspf?                empty
    |    | +--rw enable-flex-algo-adjacency-sid?        empty
    |    | +--rw enable-flex-algo-strict-adjacency-sid?   empty
    |    | +--rw enable-flex-algo-backup-adjacency-sid?   empty
    |    | +--rw enable-flex-algo-qos-policy?           empty
    |    | +--rw enable-flex-algo-bgp-ls?               empty
    |    | +--rw enable-backup-srlg-disjoint-path?      empty
    |    | +--rw enable-backup-srlg-disjoint-forced?    empty
    |    | +--rw ignore-lsp-errors?                     empty
    |    | +--rw lfa-hold-timer?                        int32 {feature-list:HAVE_ISIS_LFA}?
    |    | +--rw level-capability?                      ipi-isis-types:isis_is_type_t
    |    | +--rw authentication-send-only?              ipi-isis-types:isis_auth_level_type_t
    |    | +--rw incremental-spf-levels?                ipi-isis-types:isis_is_type_t
    |    | +--rw priority-tag?                          uint32 {feature-list:HAVE_WIDE_METRIC}?
    |    | +--rw enable-cspf-capability?                empty {feature-list:HAVE_ISIS_CSPF}?
    |    | +--rw disable-gr-capability?                 empty {feature-list:HAVE_RESTART}?
    |    | +--rw enable-bfd-all-interfaces?             empty {feature-list:HAVE_BFD}?
    |    | +--rw maximum-area-addresses?                uint8
    |    | +--rw distribute-bgp-ls?                     ipi-isis-types:isis_bgp_ls_type_t {feature-list:HAVE_BGP_LS}?
    |    | +--rw context-name?                          string {feature-list:HAVE_SNMP}?
```


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```
    |     +--ro state
    |     |  +--ro counters
    |     |  |  +--ro system-level-1-adjacency-count?   uint32
    |     |  |  +--ro system-level-2-adjacency-count?   uint32
    |     |  |  +--ro system-total-adjacency-count?     uint32
    |     |  +--ro next-global-update-level-1?          uint32
    |     |  +--ro next-global-update-level-2?          uint32
    |     |  +--ro overload?                            ipi-isis-types:isis_overload_state_t
    |     |  +--ro instance?                            string
    |     |  +--ro distance?                            uint8
    |     |  +--ro vrf-name                             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
    |     |  +--ro dynamic-host-name?                   ipi-isis-types:isis_dynamic_hostanme_t
    |     |  +--ro disable-adjacency-check?             empty
    |     |  +--ro disable-asla-usage-flex-algo?        empty
    |     |  +--ro enable-asla-strict-flex-algo?        empty
    |     |  +--ro enable-asla-usage-all-apps?          empty
    |     |  +--ro enable-flex-algo-routing?            empty
    |     |  +--ro enable-flex-algo-readvertise?        empty
    |     |  +--ro disable-flex-algo-cspf?              empty
    |     |  +--ro enable-flex-algo-adjacency-sid?      empty
    |     |  +--ro enable-flex-algo-strict-adjacency-sid?   empty
    |     |  +--ro enable-flex-algo-backup-adjacency-sid?   empty
    |     |  +--ro enable-flex-algo-qos-policy?         empty
    |     |  +--ro enable-flex-algo-bgp-ls?             empty
    |     |  +--ro enable-backup-srlg-disjoint-path?    empty
    |     |  +--ro enable-backup-srlg-disjoint-forced?  empty
    |     |  +--ro ignore-lsp-errors?                   empty
    |     |  +--ro lfa-hold-timer?                      int32 {feature-list:HAVE_ISIS_LFA}?
    |     |  +--ro level-capability?                    ipi-isis-types:isis_is_type_t
    |     |  +--ro authentication-send-only?            ipi-isis-types:isis_auth_level_type_t
    |     |  +--ro incremental-spf-levels?              ipi-isis-types:isis_is_type_t
    |     |  +--ro priority-tag?                        uint32 {feature-list:HAVE_WIDE_METRIC}?
    |     |  +--ro enable-cspf-capability?              empty {feature-list:HAVE_ISIS_CSPF}?
    |     |  +--ro disable-gr-capability?               empty {feature-list:HAVE_RESTART}?
    |     |  +--ro enable-bfd-all-interfaces?           empty {feature-list:HAVE_BFD}?
    |     |  +--ro maximum-area-addresses?              uint8
```

```
|    | +--ro distribute-bgp-ls?                    ipi-isis-types:isis_bgp_ls_type_t {feature-list:HAVE_BGP_LS}?
|    | +--ro context-name?                          string {feature-list:HAVE_SNMP}?
|    +--ro vrf
|    | +--ro igp-shortcut-lsp* [index]
|    |    +--ro index    -> ../state/index
|    |    +--ro state
|    |       +--ro index?             uint32
|    |       +--ro metric?            uint16
|    |       +--ro tunnel-id?         uint32
|    |       +--ro tunnel-endpoint?   string
|    |       +--ro lock?              uint16
|    |       +--ro status?            ipi-isis-types:isis_igp_shortcut_lsp_status_t
|    +--rw partial-route-computations
|    | +--rw partial-route-computation* [minimum-delay maximum-delay]
|    |    +--rw minimum-delay    -> ../config/minimum-delay
|    |    +--rw maximum-delay    -> ../config/maximum-delay
|    |    +--rw config
|    |    | +--rw minimum-delay?   uint32
|    |    | +--rw maximum-delay?   uint32
|    |    +--ro state
|    |       +--ro minimum-delay?   uint32
|    |       +--ro maximum-delay?   uint32
|    +--rw area-authentication
|    | +--rw config!
|    | | +--rw area-password             string
|    | | +--rw sequence-number-packet?   ipi-isis-types:isis_snp_t
|    | +--ro state
|    |    +--ro area-password             string
|    |    +--ro sequence-number-packet?   ipi-isis-types:isis_snp_t
|    +--rw network-entity-title
|    | +--rw config
|    | | +--rw net*   string
|    | +--ro state
|    |    +--ro net*   string
|    +--rw domain-authentication
|    | +--rw config!
```


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```
|    | | +--rw domain-password    string
|    | | +--rw domain-snp?        ipi-isis-types:isis_snp_t
|    | +--ro state
|    |    +--ro domain-password    string
|    |    +--ro domain-snp?        ipi-isis-types:isis_snp_t
|    +--rw metric {feature-list:HAVE_WIDE_METRIC}?
|    | +--rw config
|    | | +--rw style?          ipi-isis-types:isis_metric_style_t {feature-list:HAVE_WIDE_METRIC}?
|    | | +--rw level-number?   ipi-isis-types:isis_level3_t {feature-list:HAVE_WIDE_METRIC}?
|    | +--ro state
|    |    +--ro style?          ipi-isis-types:isis_metric_style_t {feature-list:HAVE_WIDE_METRIC}?
|    |    +--ro level-number?   ipi-isis-types:isis_level3_t {feature-list:HAVE_WIDE_METRIC}?
|    +--rw manual-area-addresses
|    | +--ro state
|    |    +--ro address*   string
|    +--rw receive-area-addresses
|    | +--ro state
|    |    +--ro address*   string
|    +--rw timers
|    | +--rw config
|    | | +--rw lsp-refresh-interval?    uint16
|    | | +--rw lsp-lifetime-interval?   uint16
|    | +--ro state
|    |    +--ro lsp-refresh-interval?    uint16
|    |    +--ro lsp-lifetime-interval?   uint16
|    +--rw traffic-engineering
|    | +--rw config
|    | | +--rw ipv4-router-id?   inet:ipv4-address {feature-list:HAVE_ISIS_TE}?
|    | | +--rw ipv6-router-id?   inet:ipv6-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|    | +--ro state
|    |    +--ro ipv4-router-id?   inet:ipv4-address {feature-list:HAVE_ISIS_TE}?
|    |    +--ro ipv6-router-id?   inet:ipv6-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|    +--rw address-family-ipv6
|    | +--rw level-1-into-2-redistributes
|    | | +--rw redistribute-level-1-into-2* [enable]
|    | |    +--rw enable    -> ../config/enable
```

```
|    | |    +--rw config
|    | |    |  +--rw enable?        empty
|    | |    |  +--rw level-1-acl?   string
|    | |    +--ro state
|    | |       +--ro enable?        empty
|    | |       +--ro level-1-acl?   string
|    |  +--rw level-2-into-1-redistributes
|    | |  +--rw redistribute-level-2-into-1* [enable]
|    | |    +--rw enable    -> ../config/enable
|    | |    +--rw config
|    | |    |  +--rw enable?        empty
|    | |    |  +--rw level-2-acl?   string
|    | |    +--ro state
|    | |       +--ro enable?        empty
|    | |       +--ro level-2-acl?   string
|    |  +--rw default-route-informations
|    | |  +--rw default-route-information* [originate]
|    | |    +--rw originate    -> ../config/originate
|    | |    +--rw config
|    | |    |  +--rw originate?        ipi-isis-types:isis_origin_type_t
|    | |    |  +--rw route-map-name?   string
|    | |    +--ro state
|    | |       +--ro originate?        ipi-isis-types:isis_origin_type_t
|    | |       +--ro route-map-name?   string
|    |  +--rw config!
|    | |  +--rw afi-name                  ipi-isis-types:isis_address_ipv6_t
|    | |  +--rw administrative-distance?   uint32
|    | |  +--rw disable-adjacency-check?   empty
|    |  +--ro state
|    | |  +--ro afi-name                  ipi-isis-types:isis_address_ipv6_t
|    | |  +--ro administrative-distance?   uint32
|    | |  +--ro disable-adjacency-check?   empty
|    |  +--rw redistributions
|    | |  +--rw redistribute* [ipv6-protocol-type]
|    | |    +--rw ipv6-protocol-type    -> ../config/ipv6-protocol-type
|    | |    +--rw config
```


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```
|    | |    | +--rw ipv6-protocol-type?   ipi-isis-types:isis_redistribute_t
|    | |    | +--rw ipv6-level?           ipi-isis-types:isis_is_type3_t
|    | |    | +--rw ipv6-metric-value?    uint32
|    | |    | +--rw ipv6-metric-type?     ipi-isis-types:isis_metric_t
|    | |    | +--rw ipv6-route-map?       string
|    | |    +--ro state
|    | |       +--ro ipv6-protocol-type?   ipi-isis-types:isis_redistribute_t
|    | |       +--ro ipv6-level?           ipi-isis-types:isis_is_type3_t
|    | |       +--ro ipv6-metric-value?    uint32
|    | |       +--ro ipv6-metric-type?     ipi-isis-types:isis_metric_t
|    | |       +--ro ipv6-route-map?       string
|    | +--rw summary-prefixes
|    | | +--rw summary-prefix* [prefix]
|    | |    +--rw prefix    -> ../config/prefix
|    | |    +--rw config
|    | |    | +--rw prefix?   cml-data-types:cml_ipv6_prefix_t
|    | |    | +--rw level     ipi-isis-types:isis_summary_level_t
|    | |    | +--rw metric?   uint8
|    | |    +--ro state
|    | |       +--ro prefix?   cml-data-types:cml_ipv6_prefix_t
|    | |       +--ro level     ipi-isis-types:isis_summary_level_t
|    | |       +--ro metric?   uint8
|    | +--rw multi-topologies
|    | | +--rw multi-topology* [level] {feature-list:HAVE_MULTI_TOPOLOGY}?
|    | |    +--rw level     -> ../config/level
|    | |    +--rw config
|    | |    | +--rw level?   ipi-isis-types:isis_multi_topology_level_type_t
|    | |    +--ro state
|    | |       +--ro level?   ipi-isis-types:isis_multi_topology_level_type_t
|    | +--rw isis-srv6 {feature-list:HAVE_SRV6}?
|    | | +--rw config!
|    | | | +--rw isisSRv6enable    empty
|    | | +--ro state
|    | | | +--ro isisSRv6enable    empty
|    | | +--rw locator-lists
|    | |    +--rw locator-list* [isisSRv6LocatorName]
```

```
|    | |       +--rw isisSRv6LocatorName    -> ../config/isisSRv6LocatorName
|    | |       +--rw config
|    | |       |  +--rw isisSRv6LocatorName?   string
|    | |       +--ro state
|    | |          +--ro isisSRv6LocatorName?   string
|    |  +--rw distances {feature-list:HAVE_IPV6}?
|    |    +--rw distance* [system-id]
|    |       +--rw system-id    -> ../config/system-id
|    |       +--rw config
|    |       |  +--rw system-id?          string
|    |       |  +--rw value               uint8
|    |       |  +--rw access-list-name?   string
|    |       +--ro state
|    |          +--ro system-id?          string
|    |          +--ro value               uint8
|    |          +--ro access-list-name?   string
|    +--rw distances
|    |  +--rw distance* [system-id]
|    |    +--rw system-id    -> ../config/system-id
|    |    +--rw config
|    |    |  +--rw system-id?          string
|    |    |  +--rw value               uint8
|    |    |  +--rw access-list-name?   string
|    |    +--ro state
|    |       +--ro system-id?          string
|    |       +--ro value               uint8
|    |       +--ro access-list-name?   string
|    +--rw lsp-over-load
|    |  +--rw config!
|    | |  +--rw enabled           empty
|    | |  +--rw suppress-type?     ipi-isis-types:isis_suppress_t
|    | |  +--rw set-bit-on-boot?   ipi-isis-types:isis_onstartup_t
|    |  +--ro state
|    |    +--ro enabled           empty
|    |    +--ro suppress-type?     ipi-isis-types:isis_suppress_t
|    |    +--ro set-bit-on-boot?   ipi-isis-types:isis_onstartup_t
```


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```
|    +--rw address-family-ipv4
|    |  +--ro state
|    |  |  +--ro existence-state?            uint8
|    |  |  +--ro redistribute-update?        int32
|    |  |  +--ro redistribute-timer-value?   string
|    |  +--rw level-1-into-2-redistributes
|    |  |  +--rw redistribute-level-1-into-2* [enable]
|    |  |  |    +--rw enable    -> ../config/enable
|    |  |  |    +--rw config
|    |  |  |    |  +--rw enable?        empty
|    |  |  |    |  +--rw level-1-acl?   string
|    |  |  |    +--ro state
|    |  |  |       +--ro enable?        empty
|    |  |  |       +--ro level-1-acl?   string
|    |  +--rw level-2-into-1-redistributes
|    |  |  +--rw redistribute-level-2-into-1* [enable]
|    |  |  |    +--rw enable    -> ../config/enable
|    |  |  |    +--rw config
|    |  |  |    |  +--rw enable?        empty
|    |  |  |    |  +--rw level-2-acl?   string
|    |  |  |    +--ro state
|    |  |  |       +--ro enable?        empty
|    |  |  |       +--ro level-2-acl?   string
|    |  +--rw default-route-informations
|    |  |  +--rw default-route-information* [originate]
|    |  |  |    +--rw originate    -> ../config/originate
|    |  |  |    +--rw config
|    |  |  |    |  +--rw originate?        ipi-isis-types:isis_origin_type_t
|    |  |  |    |  +--rw route-map-name?   string
|    |  |  |    +--ro state
|    |  |  |       +--ro originate?        ipi-isis-types:isis_origin_type_t
|    |  |  |       +--ro route-map-name?   string
|    |  +--rw redistributions
|    |  |  +--rw redistribute* [protocol-type]
|    |  |  |    +--rw protocol-type    -> ../config/protocol-type
|    |  |  |    +--rw config
```

```
|    | |    | +--rw protocol-type?   ipi-isis-types:isis_redistribute_t
|    | |    | +--rw level?           ipi-isis-types:isis_is_type3_t
|    | |    | +--rw metric-value?    uint32
|    | |    | +--rw metric-type?     ipi-isis-types:isis_metric_t
|    | |    | +--rw route-map?       string
|    | |    +--ro state
|    | |      +--ro protocol-type?   ipi-isis-types:isis_redistribute_t
|    | |      +--ro level?           ipi-isis-types:isis_is_type3_t
|    | |      +--ro metric-value?    uint32
|    | |      +--ro metric-type?     ipi-isis-types:isis_metric_t
|    | |      +--ro route-map?       string
|    | +--rw summary-addresses
|    | | +--rw summary-address* [prefix]
|    | |    +--rw prefix    -> ../config/prefix
|    | |    +--rw config
|    | |    | +--rw prefix?   cml-data-types:cml_ipv4_prefix_t
|    | |    | +--rw level     ipi-isis-types:isis_summary_level_t
|    | |    | +--rw metric?   uint8
|    | |    +--ro state
|    | |      +--ro prefix?   cml-data-types:cml_ipv4_prefix_t
|    | |      +--ro level     ipi-isis-types:isis_summary_level_t
|    | |      +--ro metric?   uint8
|    | +--rw redistribute-isis-instances
|    |   +--rw redistribute-isis-instance* [id]
|    |     +--rw id        -> ../config/id
|    |     +--rw config
|    |     | +--rw id?             string
|    |     | +--rw level?          ipi-isis-types:isis_is_type3_t
|    |     | +--rw metric-value?   uint32
|    |     | +--rw metric-type?    ipi-isis-types:isis_metric_t
|    |     | +--rw route-map?      string
|    |     +--ro state
|    |       +--ro id?             string
|    |       +--ro level?          ipi-isis-types:isis_is_type3_t
|    |       +--ro metric-value?   uint32
|    |       +--ro metric-type?    ipi-isis-types:isis_metric_t
```


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```
|    |          +--ro route-map?      string
|    +--rw passive-interfaces
|    | +--rw config
|    | | +--rw passive-interface-all?   empty
|    | +--ro state
|    | | +--ro passive-interface-all?   empty
|    | +--rw passive-interface* [name]
|    | | +--rw name      -> ../config/name
|    | | +--rw config
|    | | | +--rw name?   -> /ipi-interface:interfaces/interface/name
|    | | +--ro state
|    | | |   +--ro name?   -> /ipi-interface:interfaces/interface/name
|    | +--rw disable-passive-interfaces
|    |    +--rw disable-passive-interface* [name]
|    |       +--rw name      -> ../config/name
|    |       +--rw config
|    |       | +--rw name?   -> /ipi-interface:interfaces/interface/name
|    |       +--ro state
|    |          +--ro name?   -> /ipi-interface:interfaces/interface/name
|    +--rw microloop-avoidances {feature-list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
|    | +--rw microloop-avoidance* [level-type]
|    |    +--rw level-type    -> ../config/level-type
|    |    +--rw config
|    |    | +--rw hold-timer?   uint8
|    |    | +--rw max-fib?      uint8
|    |    | +--rw level-type?   ipi-isis-types:isis_level2_t
|    |    | +--rw enable?       empty
|    |    +--ro state
|    |       +--ro hold-timer?   uint8
|    |       +--ro max-fib?      uint8
|    |       +--ro level-type?   ipi-isis-types:isis_level2_t
|    |       +--ro enable?       empty
|    +--rw microloop-avoidance-segment-routing {feature-list:HAVE_ISIS_SR,feature-
list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
|    | +--rw segment-routing* [level-type]
|    |    +--rw level-type    -> ../config/level-type
|    |    +--rw config
```

```
|    |    | +--rw level-type?   ipi-isis-types:isis_level2_t
|    |    +--ro state
|    |    | +--ro level-type?   ipi-isis-types:isis_level2_t
|    |    +--rw protocols {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
|    |      +--rw protocol* [protocol]
|    |         +--rw protocol    -> ../config/protocol
|    |         +--rw config
|    |         | +--rw protocol?    ipi-isis-types:isis_level_proto_t
|    |         | +--rw fib-delay?   uint32
|    |         +--ro state
|    |           +--ro protocol?    ipi-isis-types:isis_level_proto_t
|    |           +--ro fib-delay?   uint32
|    +--rw mpls-traffic-engg
|    | +--rw config
|    | | +--rw enable-level-1?   empty {feature-list:HAVE_ISIS_TE}?
|    | | +--rw enable-level-2?   empty {feature-list:HAVE_ISIS_TE}?
|    | +--ro state
|    |    +--ro enable-level-1?   empty {feature-list:HAVE_ISIS_TE}?
|    |    +--ro enable-level-2?   empty {feature-list:HAVE_ISIS_TE}?
|    +--ro extended-admin-groups
|    | +--ro extended-admin-group* [name id]
|    |    +--ro name     -> ../state/name
|    |    +--ro id       -> ../state/id
|    |    +--ro state
|    |      +--ro name?   string
|    |      +--ro id?     uint16
|    +--rw flexalgos
|    | +--rw flexalgo* [algo-number]
|    |    +--rw algo-number                    -> ../config/algo-number
|    |    +--rw config!
|    |    | +--rw algo-number?                      uint8
|    |    | +--rw metric-type?                      ipi-isis-types:isis_fad_metric_type_t
|    |    | +--rw calculation-type?                 ipi-isis-types:isis_fad_calculation_type_t
|    |    | +--rw priority?                         uint8
|    |    | +--rw exclude-minimum-bandwidth?        string
|    |    | +--rw exclude-maximum-delay?            uint32
```


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```
|    |    | +--rw enable-intf-group-mode-bw-calc?       empty
|    |    | +--rw reference-bandwidth?                  string
|    |    | +--rw granularity-bandwidth?                string
|    |    | +--rw disable-advertise-definition?         empty
|    |    | +--rw disable-participate?                  empty
|    |    | +--rw enable-fast-reroute?                  empty
|    |    | +--rw enable-remote-lfa?                    empty
|    |    | +--rw enable-ti-lfa?                        empty
|    |    | +--rw enable-backup-srlg-disjoint-path?     empty
|    |    | +--rw enable-backup-srlg-disjoint-forced?   empty
|    |    | +--rw enable-prefix-metric-flag?            empty
|    |    | +--rw fapm-metric?                          uint8
|    |    | +--rw maximum-ecmp-paths?                   uint8
|    |    | +--rw affinity-eag-exclude-any*             string
|    |    | +--rw affinity-eag-include-any*             string
|    |    | +--rw affinity-eag-include-all*             string
|    |    | +--rw affinity-eag-reverse-exclude-any*     string
|    |    | +--rw affinity-eag-reverse-include-any*     string
|    |    | +--rw affinity-eag-reverse-include-all*     string
|    |    | +--rw affinity-ag-exclude-any*              string
|    |    | +--rw affinity-ag-include-any*              string
|    |    | +--rw affinity-ag-include-all*              string
|    |    | +--rw affinity-ag-reverse-exclude-any*      string
|    |    | +--rw affinity-ag-reverse-include-any*      string
|    |    | +--rw affinity-ag-reverse-include-all*      string
|    |    | +--rw exclude-srlg*                         uint32 {feature-list:HAVE_SRLG}?
|    |    +--ro state
|    |    | +--ro algo-number?                          uint8
|    |    | +--ro metric-type?                          ipi-isis-types:isis_fad_metric_type_t
|    |    | +--ro calculation-type?                     ipi-isis-types:isis_fad_calculation_type_t
|    |    | +--ro priority?                             uint8
|    |    | +--ro exclude-minimum-bandwidth?            string
|    |    | +--ro exclude-maximum-delay?                uint32
|    |    | +--ro enable-intf-group-mode-bw-calc?       empty
|    |    | +--ro reference-bandwidth?                  string
|    |    | +--ro granularity-bandwidth?                string
```

```
|    |    | +--ro disable-advertise-definition?         empty
|    |    | +--ro disable-participate?                  empty
|    |    | +--ro enable-fast-reroute?                  empty
|    |    | +--ro enable-remote-lfa?                    empty
|    |    | +--ro enable-ti-lfa?                        empty
|    |    | +--ro enable-backup-srlg-disjoint-path?     empty
|    |    | +--ro enable-backup-srlg-disjoint-forced?   empty
|    |    | +--ro enable-prefix-metric-flag?            empty
|    |    | +--ro fapm-metric?                          uint8
|    |    | +--ro maximum-ecmp-paths?                   uint8
|    |    | +--ro affinity-eag-exclude-any*             string
|    |    | +--ro affinity-eag-include-any*             string
|    |    | +--ro affinity-eag-include-all*             string
|    |    | +--ro affinity-eag-reverse-exclude-any*     string
|    |    | +--ro affinity-eag-reverse-include-any*     string
|    |    | +--ro affinity-eag-reverse-include-all*     string
|    |    | +--ro affinity-ag-exclude-any*              string
|    |    | +--ro affinity-ag-include-any*              string
|    |    | +--ro affinity-ag-include-all*              string
|    |    | +--ro affinity-ag-reverse-exclude-any*      string
|    |    | +--ro affinity-ag-reverse-include-any*      string
|    |    | +--ro affinity-ag-reverse-include-all*      string
|    |    | +--ro exclude-srlg*                         uint32 {feature-list:HAVE_SRLG}?
|    |    +--rw flexalgo-bandwidth-thresholds
|    |    | +--rw flexalgo-bandwidth-threshold* [bandwidth-threshold]
|    |    |    +--rw bandwidth-threshold    -> ../config/bandwidth-threshold
|    |    |    +--rw config
|    |    |    | +--rw bandwidth-threshold?   string
|    |    |    | +--rw threshold-metric?      uint32
|    |    |    +--ro state
|    |    |       +--ro bandwidth-threshold?   string
|    |    |       +--ro threshold-metric?      uint32
|    |    +--rw flexalgo-microloop-avoidances {feature-list:HAVE_ISIS_LFA_OR_HAVE_ISIS_TI_LFA}?
|    |       +--rw flexalgo-microloop-avoidance* [level-type]
|    |          +--rw level-type    -> ../config/level-type
|    |          +--rw config
```


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```
|    |          | +--rw level-type?   ipi-isis-types:isis_level2_t
|    |          | +--rw enable?       empty
|    |          +--ro state
|    |            +--ro level-type?   ipi-isis-types:isis_level2_t
|    |            +--ro enable?       empty
|    +--ro level-runtime* [type]
|    | +--ro type            -> ../state/type
|    | +--ro lspdb* [lsp-identifier]
|    | | +--ro lsp-identifier    -> ../state/lsp-identifier
|    | | +--ro tlvs* [index]
|    | | | +--ro index                           -> ../state/index
|    | | | +--ro is-neighbors* [system-id]
|    | | | | +--ro system-id    -> ../state/system-id
|    | | | | +--ro state
|    | | | | |  +--ro system-id?   string
|    | | | | |  +--ro metric?      uint32
|    | | | +--ro es-neighbors* [system-id]
|    | | | | +--ro system-id    -> ../state/system-id
|    | | | | +--ro state
|    | | | | |  +--ro system-id?   string
|    | | | | |  +--ro metric?      uint32
|    | | | +--ro ip-internal-reachability-information* [prefix]
|    | | | | +--ro prefix    -> ../state/prefix
|    | | | | +--ro state
|    | | | | |  +--ro prefix?   cml-data-types:cml_line_t
|    | | | | |  +--ro metric?   string
|    | | | +--ro ip-external-reachability-information* [prefix]
|    | | | | +--ro prefix    -> ../state/prefix
|    | | | | +--ro state
|    | | | | |  +--ro prefix?   cml-data-types:cml_line_t
|    | | | | |  +--ro metric?   string
|    | | | +--ro extended-is-reachability* [extended-is-index] {feature-list:HAVE_WIDE_METRIC}?
|    | | | | +--ro extended-is-index    -> ../state/extended-is-index
|    | | | | +--ro subtlv* [subtlv-index]
|    | | | | | +--ro subtlv-index                -> ../state/subtlv-index
|    | | | | | +--ro state
```

```
|   | | | | | | +--ro subtlv-index?   uint16
|   | | | | | +--ro protocols-supported {feature-list:HAVE_PROTOCOL_TOPOLOGY}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro nlp-id*   ipi-isis-types:isis_level_proto_t
|   | | | | | +--ro admin-group-info {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro admin-group?       string
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro ipv4-interface-address {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv4-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro ipv4-neighbor-address {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv4-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro ipv6-interface-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv6-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro ipv6-neighbor-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv6-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro max-link-bandwidth {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro bandwidth?        string
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro max-reserve-link-bandwidth {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro bandwidth?        ipi-isis-types:isis_ieee_float32_t
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro unreserved-bandwidth {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro bandwidth?        ipi-isis-types:isis_ieee_float32_t
|   | | | | | |    +--ro mismatch-length?   uint16
```


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```
|   | | | | | +--ro te-default-metric {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro metric?           uint32
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro uni-link-delay {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro a-bit?            uint8
|   | | | | | |    +--ro value?            uint32
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro min-max-uni-link-delay {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro a-bit?            uint8
|   | | | | | |    +--ro min-value?        uint32
|   | | | | | |    +--ro max-value?        uint32
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro uni-delay-variation {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro variation?        uint32
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro uni-link-loss {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro a-bit?            uint8
|   | | | | | |    +--ro loss?             decimal64
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro uni-residual-bw {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro residual-bw?      ipi-isis-types:isis_ieee_float32_t
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro uni-available-bw {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro available-bw?     ipi-isis-types:isis_ieee_float32_t
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro uni-utilized-bw {feature-list:HAVE_ISIS_TE}?
|   | | | | | |  +--ro state
|   | | | | | |    +--ro utilized-bw?      ipi-isis-types:isis_ieee_float32_t
|   | | | | | |    +--ro mismatch-length?   uint16
```

```
|   | | | | | +--ro sr-te-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro value?            uint32
|   | | | | | |   +--ro flag?             cml-data-types:cml_line_t
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro sr-te-lan-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro system-id?        string
|   | | | | | |   +--ro value?            uint32
|   | | | | | |   +--ro flag?             cml-data-types:cml_line_t
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro link-ids {feature-list:HAVE_GMPLS}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro local?            uint32
|   | | | | | |   +--ro remote?           uint32
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro link-protection-type {feature-list:HAVE_GMPLS}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro type?             string
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro link-switch-capability {feature-list:HAVE_GMPLS}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro type?                          string
|   | | | | | |   +--ro encoding-type?                 string
|   | | | | | |   +--ro max-lsp-bandwidth-at-priority?  ipi-isis-types:isis_ieee_float32_t
|   | | | | | |   +--ro min-lsp-bandwidth?             ipi-isis-types:isis_ieee_float32_t
|   | | | | | |   +--ro interface-mtu?                 string
|   | | | | | |   +--ro sonet-sdh-indication?          string
|   | | | | | |   +--ro mismatch-length?               uint16
|   | | | | | +--ro endx-sid {feature-list:HAVE_SRV6}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro endx-sid?         inet:ipv6-address
|   | | | | | |   +--ro endx-algo?        uint32
|   | | | | | |   +--ro endx-flags?       uint32
|   | | | | | |   +--ro endx-behavior?    string
|   | | | | | |   +--ro endx-flavor?      uint32
```


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```
|   | | | | | |   +--ro endx-weight?       uint32
|   | | | | | |   +--ro mismatch-length?   uint16
|   | | | | | +--ro lan-endx-sid {feature-list:HAVE_SRV6}?
|   | | | | |   +--ro state
|   | | | | |     +--ro lan-endx-sid?       inet:ipv6-address
|   | | | | |     +--ro lan-endx-behavior?   string
|   | | | | |     +--ro lan-endx-flavor?     uint32
|   | | | | |     +--ro lan-endx-sysid?      string
|   | | | | |     +--ro lan-endx-algo?       uint32
|   | | | | |     +--ro lan-endx-weight?     uint32
|   | | | | |     +--ro mismatch-length?     uint16
|   | | | | +--ro state
|   | | | |   +--ro extended-is-index?   uint32
|   | | | |   +--ro system-id?           string
|   | | | |   +--ro metric?              uint32
|   | | | +--ro extended-ipv4-reachability* [ipv4-reach-index] {feature-list:HAVE_WIDE_METRIC}?
|   | | | | +--ro ipv4-reach-index    -> ../state/ipv4-reach-index
|   | | | | +--ro subtlv* [stlv-reach-index]
|   | | | | | +--ro stlv-reach-index    -> ../state/stlv-reach-index
|   | | | | | +--ro state
|   | | | | | | +--ro stlv-reach-index?   uint16
|   | | | | | +--ro admin-tag-info
|   | | | | | | +--ro state
|   | | | | | |   +--ro admin-tag?         uint32
|   | | | | | |   +--ro mismatch-length?   uint16
|   | | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
|   | | | | |   +--ro state
|   | | | | |     +--ro value?            uint32
|   | | | | |     +--ro rnpev-flags?      cml-data-types:cml_line_t
|   | | | | |     +--ro mismatch-length?   uint16
|   | | | | +--ro state
|   | | | |   +--ro ipv4-reach-index?   uint32
|   | | | |   +--ro prefix?             cml-data-types:cml_ipv4_addr_prefix_t
|   | | | |   +--ro metric?             uint32
|   | | | +--ro ipv6-reachability* [ipv6-reach-index] {feature-list:HAVE_IPV6}?
|   | | | | +--ro ipv6-reach-index    -> ../state/ipv6-reach-index
```

```
|    | | | | +--ro subtlv* [stlv-reach-index]
|    | | | | | +--ro stlv-reach-index    -> ../state/stlv-reach-index
|    | | | | | +--ro state
|    | | | | | | +--ro stlv-reach-index?   uint16
|    | | | | | +--ro admin-tag-info
|    | | | | | | +--ro state
|    | | | | | |    +--ro admin-tag?         uint32
|    | | | | | |    +--ro mismatch-length?   uint16
|    | | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
|    | | | | |    +--ro state
|    | | | | |       +--ro value?            uint32
|    | | | | |       +--ro rnpev-flags?      cml-data-types:cml_line_t
|    | | | | |       +--ro mismatch-length?   uint16
|    | | | | +--ro state
|    | | | |    +--ro ipv6-reach-index?   uint32
|    | | | |    +--ro prefix?             cml-data-types:cml_ipv6_prefix_t
|    | | | |    +--ro metric?             cml-data-types:cml_line_t
|    | | | |    +--ro up-down?            boolean
|    | | | +--ro multi-topology* [id] {feature-list:HAVE_MULTI_TOPOLOGY}?
|    | | | | +--ro id       -> ../state/id
|    | | | | +--ro state
|    | | | |    +--ro id?   string
|    | | | +--ro multi-topology-is-reachability* [multi-is-index] {feature-list:HAVE_MULTI_TOPOLOGY}?
|    | | | | +--ro multi-is-index    -> ../state/multi-is-index
|    | | | | +--ro subtlv* [subtlv-index]
|    | | | | | +--ro subtlv-index                -> ../state/subtlv-index
|    | | | | | +--ro state
|    | | | | | | +--ro subtlv-index?   uint16
|    | | | | | +--ro protocols-supported {feature-list:HAVE_PROTOCOL_TOPOLOGY}?
|    | | | | | | +--ro state
|    | | | | | |    +--ro nlp-id*   ipi-isis-types:isis_level_proto_t
|    | | | | | +--ro admin-group-info {feature-list:HAVE_ISIS_TE}?
|    | | | | | | +--ro state
|    | | | | | |    +--ro admin-group?       string
|    | | | | | |    +--ro mismatch-length?   uint16
|    | | | | | +--ro ipv4-interface-address {feature-list:HAVE_ISIS_TE}?
```


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```
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv4-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro ipv4-neighbor-address {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv4-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro ipv6-interface-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv6-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro ipv6-neighbor-address {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro address?          inet:ipv6-address
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro max-link-bandwidth {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro bandwidth?        string
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro max-reserve-link-bandwidth {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro bandwidth?        ipi-isis-types:isis_ieee_float32_t
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro unreserved-bandwidth {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro bandwidth?        ipi-isis-types:isis_ieee_float32_t
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro te-default-metric {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro metric?           uint32
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro uni-link-delay {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |    +--ro a-bit?            uint8
|   | | | | | |    +--ro value?            uint32
|   | | | | | |    +--ro mismatch-length?   uint16
```

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```
|   | | | | | +--ro min-max-uni-link-delay {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro a-bit?            uint8
|   | | | | | |   +--ro min-value?        uint32
|   | | | | | |   +--ro max-value?        uint32
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro uni-delay-variation {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro variation?        uint32
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro uni-link-loss {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro a-bit?            uint8
|   | | | | | |   +--ro loss?             decimal64
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro uni-residual-bw {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro residual-bw?      ipi-isis-types:isis_ieee_float32_t
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro uni-available-bw {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro available-bw?     ipi-isis-types:isis_ieee_float32_t
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro uni-utilized-bw {feature-list:HAVE_ISIS_TE}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro utilized-bw?      ipi-isis-types:isis_ieee_float32_t
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro sr-te-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro value?            uint32
|   | | | | | |   +--ro flag?             cml-data-types:cml_line_t
|   | | | | | |   +--ro mismatch-length?  uint16
|   | | | | | +--ro sr-te-lan-adjacency-sid {feature-list:HAVE_ISIS_TE,feature-list:HAVE_ISIS_SR}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro system-id?        string
|   | | | | | |   +--ro value?            uint32
```


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```
|   | | | | | |   +--ro flag?             cml-data-types:cml_line_t
|   | | | | | |   +--ro mismatch-length?   uint16
|   | | | | | +--ro link-ids {feature-list:HAVE_GMPLS}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro local?            uint32
|   | | | | | |   +--ro remote?           uint32
|   | | | | | |   +--ro mismatch-length?   uint16
|   | | | | | +--ro link-protection-type {feature-list:HAVE_GMPLS}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro type?             string
|   | | | | | |   +--ro mismatch-length?   uint16
|   | | | | | +--ro link-switch-capability {feature-list:HAVE_GMPLS}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro type?                        string
|   | | | | | |   +--ro encoding-type?               string
|   | | | | | |   +--ro max-lsp-bandwidth-at-priority?   ipi-isis-types:isis_ieee_float32_t
|   | | | | | |   +--ro min-lsp-bandwidth?           ipi-isis-types:isis_ieee_float32_t
|   | | | | | |   +--ro interface-mtu?               string
|   | | | | | |   +--ro sonet-sdh-indication?        string
|   | | | | | |   +--ro mismatch-length?             uint16
|   | | | | | +--ro endx-sid {feature-list:HAVE_SRV6}?
|   | | | | | | +--ro state
|   | | | | | |   +--ro endx-sid?         inet:ipv6-address
|   | | | | | |   +--ro endx-algo?        uint32
|   | | | | | |   +--ro endx-flags?       uint32
|   | | | | | |   +--ro endx-behavior?    string
|   | | | | | |   +--ro endx-flavor?      uint32
|   | | | | | |   +--ro endx-weight?      uint32
|   | | | | | |   +--ro mismatch-length?   uint16
|   | | | | | +--ro lan-endx-sid {feature-list:HAVE_SRV6}?
|   | | | | |   +--ro state
|   | | | | |     +--ro lan-endx-sid?       inet:ipv6-address
|   | | | | |     +--ro lan-endx-behavior?   string
|   | | | | |     +--ro lan-endx-flavor?     uint32
|   | | | | |     +--ro lan-endx-sysid?      string
|   | | | | |     +--ro lan-endx-algo?       uint32
```

```
   |    | | | | |       +--ro lan-endx-weight?     uint32
   |    | | | | |       +--ro mismatch-length?     uint16
   |    | | | | +--ro state
   |    | | | |    +--ro multi-is-index?   uint32
   |    | | | |    +--ro system-id?        string
   |    | | | |    +--ro metric?           uint32
   |    | | | +--ro multi-topology-ipv6-reachability* [multi-ipv6-reach-index] {feature-
list:HAVE_MULTI_TOPOLOGY,feature-list:HAVE_IPV6}?
   |    | | | | +--ro multi-ipv6-reach-index    -> ../state/multi-ipv6-reach-index
   |    | | | | +--ro subtlv* [stlv-reach-index]
   |    | | | | | +--ro stlv-reach-index    -> ../state/stlv-reach-index
   |    | | | | | +--ro state
   |    | | | | | | +--ro stlv-reach-index?   uint16
   |    | | | | | +--ro admin-tag-info
   |    | | | | | | +--ro state
   |    | | | | | |    +--ro admin-tag?         uint32
   |    | | | | | |    +--ro mismatch-length?   uint16
   |    | | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
   |    | | | | |    +--ro state
   |    | | | | |       +--ro value?            uint32
   |    | | | | |       +--ro rnpev-flags?      cml-data-types:cml_line_t
   |    | | | | |       +--ro mismatch-length?   uint16
   |    | | | | +--ro state
   |    | | | |    +--ro prefix?                string
   |    | | | |    +--ro metric?                string
   |    | | | |    +--ro up-down?               boolean
   |    | | | |    +--ro multi-ipv6-reach-index?   uint16
   |    | | | |    +--ro id?                    uint16
   |    | | | +--ro multi-topology-ipv4-reachability* [id] {feature-list:HAVE_MULTI_TOPOLOGY}?
   |    | | | | +--ro id        -> ../state/id
   |    | | | | +--ro subtlv* [stlv-reach-index]
   |    | | | | | +--ro stlv-reach-index    -> ../state/stlv-reach-index
   |    | | | | | +--ro state
   |    | | | | | | +--ro stlv-reach-index?   uint16
   |    | | | | | +--ro admin-tag-info
   |    | | | | | | +--ro state
   |    | | | | | |    +--ro admin-tag?         uint32
```


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```
|   | | | | | |    +--ro mismatch-length?   uint16
|   | | | | | +--ro prefix-sid {feature-list:HAVE_ISIS_SR}?
|   | | | | |    +--ro state
|   | | | | |       +--ro value?            uint32
|   | | | | |       +--ro rnpev-flags?      cml-data-types:cml_line_t
|   | | | | |       +--ro mismatch-length?   uint16
|   | | | | +--ro state
|   | | | |    +--ro prefix?   inet:ipv4-address
|   | | | |    +--ro metric?   uint32
|   | | | |    +--ro id?       uint16
|   | | | +--ro state
|   | | | | +--ro index?   uint32
|   | | | +--ro area-addresses
|   | | | | +--ro state
|   | | | |    +--ro address*   string
|   | | | +--ro supported-protocol
|   | | | | +--ro state
|   | | | |    +--ro nlp-id*   ipi-isis-types:isis_level_proto_t
|   | | | +--ro host-name
|   | | | | +--ro state
|   | | | |    +--ro host-name?   string
|   | | | +--ro ipv4-interface-addresses
|   | | | | +--ro state
|   | | | |    +--ro address?   inet:ipv4-address
|   | | | +--ro sid-label-binding {feature-list:HAVE_ISIS_SR}?
|   | | | | +--ro state
|   | | | |    +--ro ipv4-address?      string
|   | | | |    +--ro ipv6-address?      string {feature-list:HAVE_IPV6}?
|   | | | |    +--ro fmsda-flags?       cml-data-types:cml_line_t
|   | | | |    +--ro rnpev-flags?       cml-data-types:cml_line_t
|   | | | |    +--ro start-identifier?   uint32
|   | | | |    +--ro algorithm?          uint32
|   | | | |    +--ro range?              uint32
|   | | | +--ro ipv4-te-router-id {feature-list:HAVE_ISIS_TE}?
|   | | | | +--ro state
|   | | | |    +--ro unknown-tlv-type?   uint8
```

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```
|    | | | |    +--ro length?            uint8
|    | | | |    +--ro router-id?          string
|    | | | +--ro ipv4-shared-risk-link-group {feature-list:HAVE_WIDE_METRIC,feature-list:HAVE_GMPLS}?
|    | | | | +--ro state
|    | | | |    +--ro value?             string
|    | | | |    +--ro neighbor-address?   inet:ipv4-address
|    | | | |    +--ro local-address?      inet:ipv4-address
|    | | | |    +--ro system-id?          string
|    | | | +--ro ipv6-te-router-id {feature-list:HAVE_ISIS_TE,feature-list:HAVE_IPV6}?
|    | | | | +--ro state
|    | | | |    +--ro unknown-tlv-type?     uint8
|    | | | |    +--ro unknown-tlv-length?   uint8
|    | | | |    +--ro router-id?            inet:ipv6-address
|    | | | +--ro ipv6-interface-address {feature-list:HAVE_IPV6}?
|    | | | | +--ro state
|    | | | |    +--ro address?   inet:ipv6-address
|    | | | +--ro router-capability {feature-list:HAVE_ISIS_SR_OR_HAVE_SRV6}?
|    | | | | +--ro subtlv* [stlv-index]
|    | | | | | +--ro stlv-index                    -> ../state/stlv-index
|    | | | | | +--ro state
|    | | | | | | +--ro stlv-index?   uint16
|    | | | | | +--ro segment-routing {feature-list:HAVE_ISIS_SR}?
|    | | | | | | +--ro state
|    | | | | | | |    +--ro range?            uint32
|    | | | | | | |    +--ro sid?              uint32
|    | | | | | | |    +--ro mismatch-length?   uint16
|    | | | | | +--ro segment-routing-algorithm {feature-list:HAVE_ISIS_SR}?
|    | | | | | | +--ro state
|    | | | | | | |    +--ro sr-algorithm-vector*   ipi-isis-types:isis_sr_algo_choice_t
|    | | | | | | |    +--ro mismatch-length?       uint16
|    | | | | | +--ro segment-routing-mapping-server-preference {feature-list:HAVE_ISIS_SR}?
|    | | | | | | +--ro state
|    | | | | | | |    +--ro preference?        uint32
|    | | | | | | |    +--ro mismatch-length?   uint16
|    | | | | | +--ro segment-routing-v6 {feature-list:HAVE_SRV6}?
|    | | | | | | +--ro state
```


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```
|   | | | | | |   +--ro srv6-flags?       uint32
|   | | | | | |   +--ro mismatch-length?   uint16
|   | | | | | +--ro max-sid-depth {feature-list:HAVE_SRV6}?
|   | | | | |   +--ro state
|   | | | | |     +--ro segments-left?     uint32
|   | | | | |     +--ro end-pop?           uint32
|   | | | | |     +--ro h-encaps?          uint32
|   | | | | |     +--ro decap-sids?        uint32
|   | | | | |     +--ro mismatch-length?   uint16
|   | | | | +--ro state
|   | | | |   +--ro router-id?   inet:ipv4-address
|   | | | +--ro srv6-locator {feature-list:HAVE_SRV6}?
|   | | |   +--ro subtlv* [stlv-index stlv-endpoint-function]
|   | | |   | +--ro stlv-index               -> ../state/stlv-index
|   | | |   | +--ro stlv-endpoint-function    -> ../state/stlv-endpoint-function
|   | | |   | +--ro state
|   | | |   | | +--ro stlv-index?              uint16
|   | | |   | | +--ro stlv-endpoint-function?   uint16
|   | | |   | +--ro srv6-end-sid {feature-list:HAVE_SRV6}?
|   | | |   |   +--ro state
|   | | |   |     +--ro end-sid?             inet:ipv6-address
|   | | |   |     +--ro sid-flags?           uint32
|   | | |   |     +--ro end-point-behavior?   string
|   | | |   |     +--ro mismatch-length?      uint16
|   | | |   +--ro state
|   | | |     +--ro locator-algorithm?   uint32
|   | | |     +--ro locator-flag?        uint32
|   | | |     +--ro locator-metric?      uint32
|   | | |     +--ro locator-prefix?      cml-data-types:cml_ipv6_prefix_t
|   | | +--ro state
|   | |   +--ro lsp-identifier?       string
|   | |   +--ro is-self-lsp?          string
|   | |   +--ro checksum?             string
|   | |   +--ro remaining-lifetime?   uint16
|   | |   +--ro flags?                uint8
|   | |   +--ro partition-repair?     boolean
```

```
|    | |    +--ro over-loaded?          boolean
|    | |    +--ro sequence-number?      string
|    | |    +--ro pdu-length?           uint32
|    | +--ro protocol-data* [index]
|    | | +--ro index     uint8
|    | | +--ro vertex* [destination-system-id]
|    | |    +--ro destination-system-id    -> ../state/destination-system-id
|    | |    +--ro vertex-nexthop* [nexthop-interface nexthop-system-id]
|    | |    | +--ro nexthop-interface    -> ../state/nexthop-interface
|    | |    | +--ro nexthop-system-id    -> ../state/nexthop-system-id
|    | |    | +--ro state
|    | |    |    +--ro nexthop-interface?   string
|    | |    |    +--ro nexthop-system-id?   string
|    | |    |    +--ro snpa-mac-address?    cml-data-types:cml_mac_addr_t
|    | |    +--ro state
|    | |       +--ro metric?                uint32
|    | |       +--ro destination-system-id?   string
|    | +--ro state
|    |    +--ro counters
|    |    | +--ro authentication-type-fails?                  uint32
|    |    | +--ro authentication-fails?                       uint32
|    |    | +--ro corrupted-lsps?                             uint32
|    |    | +--ro database-overloads?                         uint32
|    |    | +--ro manual-address-drop-from-areas?             uint32
|    |    | +--ro attempt-to-exceed-maximum-sequence-numbers?   uint32
|    |    | +--ro sequence-number-skips?                      uint32
|    |    | +--ro own-lsp-purges?                             uint32
|    |    | +--ro lsp-sourced?                                uint32
|    |    | +--ro maximum-area-address-mismatches?            uint32
|    |    | +--ro id-length-mismatch?                         uint32
|    |    | +--ro partition-changes?                          uint32
|    |    | +--ro spf-runs?                                   uint32
|    |    | +--ro partial-route-calculation-count?            uint32
|    |    | +--ro lan-designated-is-changes?                  uint32
|    |    +--ro type?           ipi-isis-types:isis_level2_t
|    |    +--ro topology-type?   uint8
```


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```
|    +--rw spf-levels
|    |  +--rw spf-level* [level]
|    |     +--rw level         -> ../config/level
|    |     +--rw spf-delays
|    |     |  +--rw spf-delay* [spf-min-delay spf-max-delay]
|    |     |     +--rw spf-min-delay    -> ../config/spf-min-delay
|    |     |     +--rw spf-max-delay    -> ../config/spf-max-delay
|    |     |     +--rw config
|    |     |     |  +--rw spf-min-delay?   uint32
|    |     |     |  +--rw spf-max-delay?   uint32
|    |     |     +--ro state
|    |     |        +--ro spf-min-delay?   uint32
|    |     |        +--ro spf-max-delay?   uint32
|    |     +--rw config
|    |     |  +--rw level?   ipi-isis-types:isis_level3_t
|    |     +--ro state
|    |        +--ro level?   ipi-isis-types:isis_level3_t
|    +--rw levels
|    |  +--rw level* [type]
|    |     +--rw type              -> ../config/type
|    |     +--rw config
|    |     |  +--rw type?                  ipi-isis-types:isis_level3_t
|    |     |  +--rw wait-timer?            uint16
|    |     |  +--rw restart-timer?         uint16
|    |     |  +--rw lsp-max-wait-interval?   uint32
|    |     |  +--rw lsp-mtu-size?          uint16
|    |     +--ro state
|    |     |  +--ro type?                  ipi-isis-types:isis_level3_t
|    |     |  +--ro wait-timer?            uint16
|    |     |  +--ro restart-timer?         uint16
|    |     |  +--ro lsp-max-wait-interval?   uint32
|    |     |  +--ro lsp-mtu-size?          uint16
|    |     +--rw authentication
|    |        +--rw config!
|    |        |  +--rw key-chain?   string
|    |        |  +--rw mode        ipi-isis-types:isis_auth_mode_t
```

```
|    |       +--ro state
|    |          +--ro key-chain?   string
|    |          +--ro mode         ipi-isis-types:isis_auth_mode_t
|    +--ro cspf {feature-list:HAVE_ISIS_CSPF}?
|    |  +--ro lsp* [setup-priority]
|    |     +--ro setup-priority    -> ../state/setup-priority
|    |     +--ro lsp-status* [lsp-id]
|    |     |  +--ro lsp-id                    -> ../state/lsp-id
|    |     |  +--ro path-constraint* [index]
|    |     |  |  +--ro index    -> ../state/index
|    |     |  |  +--ro state
|    |     |  |     +--ro index?        uint32
|    |     |  |     +--ro ip-address?   inet:ipv4-address
|    |     |  |     +--ro path-type?    ipi-isis-types:isis_cspf_path_type_t
|    |     |  +--ro exclude-path-constraint* [ip-address]
|    |     |  |  +--ro ip-address    -> ../state/ip-address
|    |     |  |  +--ro state
|    |     |  |     +--ro ip-address?     inet:ipv4-address
|    |     |  |     +--ro interface-id?   uint32 {feature-list:HAVE_GMPLS}?
|    |     |  |     +--ro type?           ipi-isis-types:isis_cspf_constraint_type_t
|    |     |  +--ro path-computed-ero* [local-ip-address]
|    |     |  |  +--ro local-ip-address    -> ../state/local-ip-address
|    |     |  |  +--ro state
|    |     |  |     +--ro local-ip-address?    inet:ipv4-address
|    |     |  |     +--ro remote-ip-address?   inet:ipv4-address
|    |     |  +--ro state
|    |     |     +--ro lsp-id?              uint32
|    |     |     +--ro metric?              uint32
|    |     |     +--ro retry-interval?      uint16
|    |     |     +--ro retry-limit?         uint16
|    |     |     +--ro tunnel-egress-ip?    inet:ipv4-address
|    |     |     +--ro tunnel-ingress-ip?   inet:ipv4-address
|    |     |     +--ro extended-tunnel-id?  inet:ipv4-address
|    |     |     +--ro lsp-name?            string
|    |     |     +--ro status?              string
|    |     |     +--ro client-id?           uint8
```


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```
|    |    |    +--ro hop-limit?            int16
|    |    |    +--ro include-mask?         int8
|    |    |    +--ro include-all-mask?     int8
|    |    |    +--ro exclude-mask?         int8
|    |    |    +--ro hold-priority?        uint8
|    |    |    +--ro retry-count?          uint16
|    |    |    +--ro bandwidth?            string
|    |    |    +--ro trunk-id?             uint32
|    |    |    +--ro lsp-type?             ipi-isis-types:isis_cspf_lsp_type_t
|    |    |    +--ro lsp-reoptimize?       string
|    |    |    +--ro lsp-in-reop-list?     string
|    |    |    +--ro lsp-reop-time?        string
|    |    |    +--ro next-reop-due-in?     string
|    |    +--ro state
|    |       +--ro setup-priority?   int8
|    +--ro ipv4-lfa-route* [destination-prefix]
|    |  +--ro destination-prefix    -> ../state/destination-prefix
|    |  +--ro route-nexthop* [primary-nexthop nexthop-type]
|    |  |  +--ro primary-nexthop    -> ../state/primary-nexthop
|    |  |  +--ro nexthop-type       -> ../state/nexthop-type
|    |  |  +--ro state
|    |  |     +--ro primary-nexthop?                inet:ipv4-address
|    |  |     +--ro nexthop-type?                   ipi-isis-types:isis_lfa_nexthop_type_t
|    |  |     +--ro primary-nexthop-interface-name?   string
|    |  |     +--ro remote-router-id?               inet:ipv4-address
|    |  |     +--ro lfa-nexthop?                    inet:ipv4-address
|    |  |     +--ro lfa-nexthop-interface-name?       string
|    |  |     +--ro lfa-path-metric?                uint32
|    |  |     +--ro protection-provided?            cml-data-types:cml_line_t
|    |  +--ro state
|    |     +--ro destination-prefix?      cml-data-types:cml_ipv4_addr_prefix_t
|    |     +--ro destination-path-type?   string
|    +--ro ipv6-lfa-route* [destination-prefix]
|    |  +--ro destination-prefix    -> ../state/destination-prefix
|    |  +--ro route-nexthop* [primary-nexthop]
|    |  |  +--ro primary-nexthop    -> ../state/primary-nexthop
```

```
|    | | +--ro state
|    | |    +--ro primary-nexthop?                inet:ipv6-address
|    | |    +--ro primary-nexthop-interface-name?   string
|    | |    +--ro lfa-nexthop?                    inet:ipv6-address
|    | |    +--ro lfa-nexthop-interface-name?       string
|    | |    +--ro lfa-path-metric?                uint32
|    | |    +--ro protection-provided?              string
|    | +--ro state
|    |    +--ro destination-prefix?      cml-data-types:cml_ipv6_prefix_t
|    |    +--ro destination-path-type?   string
|    +--rw fast-reroute-levels
|    | +--rw fast-reroute* [level-type]
|    |    +--rw level-type          -> ../config/level-type
|    |    +--rw config
|    |    | +--rw level-type?           ipi-isis-types:isis_level2_t
|    |    | +--rw remote-lfa-protocol*   ipi-isis-types:isis_lfa_level_proto_t {feature-list:HAVE_LDPD,feature-
list:HAVE_ISIS_LFA}?
|    |    +--ro state
|    |    | +--ro level-type?           ipi-isis-types:isis_level2_t
|    |    | +--ro remote-lfa-protocol*   ipi-isis-types:isis_lfa_level_proto_t {feature-list:HAVE_LDPD,feature-
list:HAVE_ISIS_LFA}?
|    |    +--rw route-maps
|    |    | +--rw route-map* [protocol] {feature-list:HAVE_ISIS_LFA}?
|    |    |    +--rw protocol    -> ../config/protocol
|    |    |    +--rw config
|    |    |    | +--rw protocol?             ipi-isis-types:isis_lfa_level_proto_t
|    |    |    | +--rw name?                 string
|    |    |    | +--rw enable-all-prefixes?   ipi-isis-types:isis_frr_enum_t
|    |    |    +--ro state
|    |    |       +--ro protocol?            ipi-isis-types:isis_lfa_level_proto_t
|    |    |       +--ro name?                string
|    |    |       +--ro enable-all-prefixes?   ipi-isis-types:isis_frr_enum_t
|    |    +--rw ti-lfas
|    |    | +--rw ti-lfa* [protocol] {feature-list:HAVE_ISIS_TI_LFA}?
|    |    |    +--rw protocol    -> ../config/protocol
|    |    |    +--rw config
|    |    |    | +--rw protocol?   ipi-isis-types:isis_lfa_level_proto_t
```


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```
|    |    |    +--ro state
|    |    |       +--ro protocol?   ipi-isis-types:isis_lfa_level_proto_t
|    |    +--rw protocols
|    |    |  +--rw protocol* [lfa-protocol preference-value] {feature-list:HAVE_ISIS_LFA}?
|    |    |    +--rw lfa-protocol        -> ../config/lfa-protocol
|    |    |    +--rw preference-value    -> ../config/preference-value
|    |    |    +--rw config
|    |    |    |  +--rw lfa-protocol?       ipi-isis-types:isis_lfa_level_proto_t
|    |    |    |  +--rw preference-value?   ipi-isis-types:isis_frr_tie_break_val_t
|    |    |    |  +--rw preference-index    uint32
|    |    |    +--ro state
|    |    |       +--ro lfa-protocol?       ipi-isis-types:isis_lfa_level_proto_t
|    |    |       +--ro preference-value?   ipi-isis-types:isis_frr_tie_break_val_t
|    |    |       +--ro preference-index    uint32
|    |    +--rw ipv4-tilfa-routes {feature-list:HAVE_ISIS_TI_LFA}?
|    |    |  +--ro ipv4-tilfa-route* [destination-prefix]
|    |    |    +--ro destination-prefix    -> ../state/destination-prefix
|    |    |    +--ro state
|    |    |    |  +--ro destination-prefix?   inet:ipv4-address
|    |    |    |  +--ro path-type?            ipi-isis-types:isis_path_type_t
|    |    |    |  +--ro ftn-index?            uint32
|    |    |    |  +--ro ilm-index?            uint32
|    |    |    +--ro nexthops
|    |    |    |  +--ro nexthop* [primary-nexthop]
|    |    |    |     +--ro primary-nexthop    -> ../state/primary-nexthop
|    |    |    |     +--ro state
|    |    |    |        +--ro primary-nexthop?             inet:ipv4-address
|    |    |    |        +--ro primary-outgoing-interface?   string
|    |    |    |        +--ro protection-type?             ipi-isis-types:isis_tilfa_protection_type_t
|    |    |    |        +--ro pq-node-router-id?           inet:ipv4-address
|    |    |    |        +--ro p-node?                      inet:ipv4-address
|    |    |    |        +--ro q-node?                      inet:ipv4-address
|    |    |    |        +--ro pq-trunk-id?                 uint32
|    |    |    |        +--ro primary-outgoing-label?      uint32
|    |    |    |        +--ro primary-incoming-label?      uint32
|    |    |    |        +--ro backup-outgoing-label?       uint32
```

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```
|    |    |    |       +--ro backup-outgoing-interface?    string
|    |    |    +--ro pq-trunks
|    |    |       +--ro pq-trunk* [trunk-id]
|    |    |          +--ro trunk-id    -> ../state/trunk-id
|    |    |          +--ro state
|    |    |             +--ro trunk-id?          uint32
|    |    |             +--ro trunk-name?        string
|    |    |             +--ro nexthop?           inet:ipv4-address
|    |    |             +--ro outgoing-label?    uint32
|    |    |             +--ro ftn-index?         uint32
|    |    |             +--ro reference-count?   uint32
|    |    +--rw tilfa-pq-nodes {feature-list:HAVE_ISIS_TI_LFA}?
|    |       +--rw circuit-levels
|    |          +--ro circuit-level* [level]
|    |             +--ro level       -> ../state/level
|    |             +--ro state
|    |             |  +--ro level?   ipi-isis-types:isis_level2_t
|    |             +--ro vertices
|    |                +--ro vertex* [destination-vertex]
|    |                   +--ro destination-vertex    -> ../state/destination-vertex
|    |                   +--ro state
|    |                   |  +--ro destination-vertex?   string
|    |                   +--ro interfaces
|    |                      +--ro interface* [name]
|    |                         +--ro name               -> ../state/name
|    |                         +--ro state
|    |                         |  +--ro name?   string
|    |                         +--ro link-protection
|    |                         |  +--ro state
|    |                         |     +--ro pnodes*           string
|    |                         |     +--ro qnodes*           string
|    |                         |     +--ro pq-node?          string
|    |                         |     +--ro p-node-disjoint?   string
|    |                         |     +--ro q-node-disjoint?   string
|    |                         +--ro srlg-protection
|    |                         |  +--ro state
```


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```
|    |                    |    +--ro pnodes*           string
|    |                    |    +--ro qnodes*           string
|    |                    |    +--ro pq-node?          string
|    |                    |    +--ro p-node-disjoint?  string
|    |                    |    +--ro q-node-disjoint?  string
|    |                    +--ro node-protection
|    |                       +--ro state
|    |                          +--ro pnodes*           string
|    |                          +--ro qnodes*           string
|    |                          +--ro pq-node?          string
|    |                          +--ro p-node-disjoint?  string
|    |                          +--ro q-node-disjoint?  string
|    +--ro segment-routing-capability* [advertising-router-ip]
|    |  +--ro advertising-router-ip    -> ../state/advertising-router-ip
|    |  +--ro range-info* [index]
|    |  |  +--ro index    -> ../state/index
|    |  |  +--ro state
|    |  |     +--ro start?   uint32
|    |  |     +--ro end?     uint32
|    |  |     +--ro index?   uint32
|    |  +--ro srlb-range-info* [index]
|    |  |  +--ro index    -> ../state/index
|    |  |  +--ro state
|    |  |     +--ro start?   uint32
|    |  |     +--ro end?     uint32
|    |  |     +--ro index?   uint32
|    |  +--ro state
|    |     +--ro advertising-router-ip?       inet:ipv4-address
|    |     +--ro sr-algorithm-vector*         ipi-isis-types:isis_sr_algo_choice_t
|    |     +--ro mapping-server-preference?   uint32
|    |     +--ro total-sid-count?             uint32
|    |     +--ro sid-range-list-count?        uint8
|    +--ro segment-routing-mapping-server-ipv4* [type]
|    |  +--ro type          -> ../state/type
|    |  +--ro ipv4-table* [prefix-length]
|    |  |  +--ro prefix-length    -> ../state/prefix-length
```

```
|    | | +--ro entry* [index]
|    | | | +--ro index    -> ../state/index
|    | | | +--ro state
|    | | |    +--ro index?                uint32
|    | | |    +--ro label-options?         uint8
|    | | |    +--ro system-id?             string
|    | | |    +--ro status?                string
|    | | |    +--ro preference?            uint8
|    | | |    +--ro attached?              string
|    | | |    +--ro last-system-id-index?   uint32
|    | | |    +--ro last-prefix?           cml-data-types:cml_ip_prefix_addr_t
|    | | |    +--ro prefix-range?          uint32
|    | | |    +--ro entry-prefix?          cml-data-types:cml_ip_prefix_addr_t
|    | | +--ro state
|    | |    +--ro prefix-length?   uint32
|    | +--ro state
|    |    +--ro type?                      ipi-isis-types:isis_srms_type_t
|    |    +--ro entry-count?                uint32
|    |    +--ro conflict-resolution-policy?   string
|    +--rw segment-routing
|       +--rw config!
|       | +--rw enabled            empty {feature-list:HAVE_ISIS_SR}?
|       | +--rw advertise-local?   empty {feature-list:HAVE_ISIS_SR}?
|       | +--rw receive-disable?   empty {feature-list:HAVE_ISIS_SR}?
|       +--ro state
|       | +--ro enabled            empty {feature-list:HAVE_ISIS_SR}?
|       | +--ro advertise-local?   empty {feature-list:HAVE_ISIS_SR}?
|       | +--ro receive-disable?   empty {feature-list:HAVE_ISIS_SR}?
|       +--rw global-blocks
|       | +--rw global-block* [global-block-base global-block-range]
|       |    +--rw global-block-base     -> ../config/global-block-base
|       |    +--rw global-block-range    -> ../config/global-block-range
|       |    +--rw config
|       |    | +--rw global-block-base?    int32
|       |    | +--rw global-block-range?   int32 {feature-list:HAVE_ISIS_SR}?
|       |    +--ro state
```


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```
|       |       +--ro global-block-base?    int32
|       |       +--ro global-block-range?   int32 {feature-list:HAVE_ISIS_SR}?
|       +--rw sr-capability-entropy {feature-list:HAVE_ISIS_SR}?
|         +--rw config
|         | +--rw entropy-label?   empty
|         +--ro state
|           +--ro entropy-label?   empty
+--rw debug
| +--rw config
| | +--rw options?          ipi-isis-types:isis_debug_t
| | +--rw enable-hello?     empty
| | +--rw interface-hello*  string
| | +--rw system-id-hello*  string
| | +--rw cspf?             ipi-isis-types:isis_cspf_debug_t {feature-list:HAVE_ISIS_CSPF}?
| +--ro state
|   +--ro options?          ipi-isis-types:isis_debug_t
|   +--ro enable-hello?     empty
|   +--ro interface-hello*  string
|   +--ro system-id-hello*  string
|   +--ro cspf?             ipi-isis-types:isis_cspf_debug_t {feature-list:HAVE_ISIS_CSPF}?
|   +--ro terminal-debug
|     +--ro terminal-debug-status?                  ipi-isis-types:isis_debug_t
|     +--ro terminal-debug-status-hello?            cml-data-types:cml_on_off_t
|     +--ro terminal-debug-status-interface-hello*  string
|     +--ro terminal-debug-status-system-id-hello*  string
|     +--ro terminal-debug-status-cspf?             ipi-isis-types:isis_cspf_debug_t {feature-list:HAVE_ISIS_CSPF}?
+--ro state
| +--ro host-name*          string
| +--ro lsp-identifier?     -> /isis/isis-instances/isis-instance/level-runtime/lspdb/state/lsp-identifier
| +--ro overload?           -> /isis/isis-instances/isis-instance/state/overload
| +--ro pdu-length?         -> /isis/isis-instances/isis-instance/level-runtime/lspdb/state/pdu-length
| +--ro raw-pdu?            string
| +--ro pdu-field-len?      uint8
| +--ro max-area-addresses? uint8
| +--ro protocol-version?   uint8
| +--ro reason?             string
```

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```
  |  +--ro protocols?            uint8
  |  +--ro error-offset?         uint32
  |  +--ro tlv-type?             uint8
  |  +--ro global-block-base?    int32 {feature-list:HAVE_ISIS_SR}?
  |  +--ro global-block-range?   int32 {feature-list:HAVE_ISIS_SR}?
  |  +--ro received-index?       uint32 {feature-list:HAVE_ISIS_SR}?
  |  +--ro routing-protocol?     string {feature-list:HAVE_ISIS_SR}?
  +--rw graceful-restart
  |  +--rw config
  |  |  +--rw grace-period?         uint16
  |  |  +--rw enable-helper-only?   empty
  |  |  +--rw suppress-adjacency?   empty
  |  +--ro state
  |     +--ro grace-period?         uint16
  |     +--ro enable-helper-only?   empty
  |     +--ro suppress-adjacency?   empty
  +--rw interfaces
     +--rw interface* [name]
        +--rw name                    -> ../config/name
        +--ro bandwidth-priority* [priority]
        |  +--ro priority    -> ../state/priority
        |  +--ro state
        |     +--ro priority?              uint8
        |     +--ro available-bandwidth?   string
        +--ro neighbor-lan* [system-id]
        |  +--ro system-id         -> ../state/system-id
        |  +--ro adjacency* [level]
        |  |  +--ro level    -> ../state/level
        |  |  +--ro state
        |  |     +--ro level?                ipi-isis-types:isis_level_t
        |  |     +--ro adjacency-state?      ipi-isis-types:isis_state_t
        |  |     +--ro adjacency-id?         uint32
        |  |     +--ro remaining-hold-time?   string
        |  |     +--ro priority?             uint8
        |  +--ro state
        |  |  +--ro system-id?                string
```


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```
| | +--ro adjacency-type?           ipi-isis-types:isis_level_t
| | +--ro adjacency-advertisement?   ipi-isis-types:isis_nbr_adj_t
| | +--ro neighbor-snpa?            string
| | +--ro level-1-nlp-id*           ipi-isis-types:isis_level_proto_t
| | +--ro level-2-nlp-id*           ipi-isis-types:isis_level_proto_t
| | +--ro multi-topology-type?       ipi-isis-types:isis_multi_topology_types_t
| | +--ro up-time?                  string
| | +--ro adjacency-sid?            uint32 {feature-list:HAVE_ISIS_SR}?
| | +--ro ilm-id?                   uint32 {feature-list:HAVE_ISIS_SR}?
| | +--ro bypass-trunk-id?          uint32 {feature-list:HAVE_ISIS_SR}?
| | +--ro backup-ilm-id?            uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
| | +--ro backup-ilm-msg-id?         uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
| | +--ro p-router-id?              inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
| | +--ro q-router-id?              inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
| | +--ro pq-router-id?             inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
| | +--ro neighbor-protocol?         ipi-isis-types:isis_neighbour_protocol_t
| | +--ro area-address*             string
| +--ro ipv4-addresses
| | +--ro state
| |    +--ro address*   inet:ipv4-address
| +--ro ipv6-addresses
|    +--ro state
|       +--ro address*   inet:ipv6-address
+--ro level* [level-number]
| +--ro level-number                -> ../state/level-number
| +--ro state
| | +--ro level-number?               ipi-isis-types:isis_iflevel_t
| | +--ro next-hello-interval?         cml-data-types:cml_line_t
| | +--ro mtu?                        uint32
| | +--ro circuit-id?                 string
| | +--ro active-adjancency-count?       int32
| | +--ro csnp-interval?               cml-data-types:cml_line_t
| | +--ro adjacency-changes?            uint32
| | +--ro adjacency-number?             uint32
| | +--ro init-fails?                 uint32
| | +--ro rejected-adjacency?           uint32
```

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```
| | +--ro id-field-length-mismatches?    uint32
| | +--ro max-area-address-mismatches?   uint32
| | +--ro authentication-type-fails?     uint32
| | +--ro authentication-fails?          uint32
| | +--ro lan-dis-changes?               uint32
| +--ro isis-hellos
| | +--ro state
| |    +--ro received?   uint32
| |    +--ro sent?       uint32
| +--ro link-state-pdu
| | +--ro state
| |    +--ro received?   uint32
| |    +--ro sent?       uint32
| +--ro complete-sequence-number-pdu
| | +--ro state
| |    +--ro received?   uint32
| |    +--ro sent?       uint32
| +--ro partial-sequence-number-pdu
| | +--ro state
| |    +--ro received?   uint32
| |    +--ro sent?       uint32
| +--ro unknown
|    +--ro state
|       +--ro received?   uint32
|       +--ro sent?       uint32
+--rw config
| +--rw name?                        -> /ipi-interface:interfaces/interface/name
| +--rw minimal?                      ipi-isis-types:isis_auth_level_type_t
| +--rw send-only?                    ipi-isis-types:isis_auth_level_type_t
| +--rw maximum-bandwidth-flex-algo?    string
| +--rw disable-asla-usage-flex-algo?   empty
+--ro state
| +--ro name?                        -> /ipi-interface:interfaces/interface/name
| +--ro minimal?                      ipi-isis-types:isis_auth_level_type_t
| +--ro send-only?                    ipi-isis-types:isis_auth_level_type_t
| +--ro maximum-bandwidth-flex-algo?    string
```


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```
|  +--ro disable-asla-usage-flex-algo?   empty
|  +--ro isis-tag?                       string
|  +--ro network-type?                   string
|  +--ro circuit-type?                   ipi-isis-types:isis_circuit_type_t
|  +--ro local-circuit-id?               string
|  +--ro extended-circuit-id?            string
|  +--ro local-snpa?                     cml-data-types:cml_mac_addr_t
+--ro bandwidth
|  +--ro state
|     +--ro value?               string {feature-list:HAVE_ISIS_TE}?
|     +--ro maximum-resverable?   string {feature-list:HAVE_ISIS_TE}?
+--ro p2p-circuit-counters
|  +--ro state
|     +--ro adjacency-changes?             uint32
|     +--ro adjacency-number?              uint32
|     +--ro init-fails?                    uint32
|     +--ro rejected-adjacency?            uint32
|     +--ro id-field-length-mismatches?    uint32
|     +--ro max-area-address-mismatches?   uint32
|     +--ro authentication-type-fails?     uint32
|     +--ro authentication-fails?          uint32
|     +--ro lan-dis-changes?               uint32
+--rw connected-ipv4
|  +--ro state
|     +--ro address*   cml-data-types:cml_ipv4_addr_prefix_t
+--rw connected-ipv6
|  +--ro state
|     +--ro address*   cml-data-types:cml_ipv6_prefix_t
+--ro neighbor-P2P
|  +--ro ipv4-addresses* [address]
|  |  +--ro address    -> ../state/address
|  |  +--ro state
|  |     +--ro address*   inet:ipv4-address
|  +--ro ipv6-addresses* [address]
|  |  +--ro address    -> ../state/address
|  |  +--ro state
```

```
| |    +--ro address*   inet:ipv6-address
| +--ro state
|    +--ro system-id?                string
|    +--ro circuit-id?               string
|    +--ro adjacency-state?          ipi-isis-types:isis_state_t
|    +--ro remaining-hold-time?      string
|    +--ro adjacency-type?           string
|    +--ro adjacency-advertisement?  ipi-isis-types:isis_nbr_adj_t
|    +--ro neighbor-snpa?            string
|    +--ro level-1-nlp-id*           ipi-isis-types:isis_level_proto_t
|    +--ro level-2-nlp-id*           ipi-isis-types:isis_level_proto_t
|    +--ro multi-topology-type?      ipi-isis-types:isis_multi_topology_types_t
|    +--ro up-time?                  string
|    +--ro adjacency-sid?            uint32 {feature-list:HAVE_ISIS_SR}?
|    +--ro ilm-id?                   uint32 {feature-list:HAVE_ISIS_SR}?
|    +--ro bypass-trunk-id?          uint32 {feature-list:HAVE_ISIS_SR}?
|    +--ro backup-ilm-id?            uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|    +--ro backup-ilm-msg-id?        uint32 {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|    +--ro p-router-id?              inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|    +--ro q-router-id?              inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|    +--ro pq-router-id?             inet:ipv4-address {feature-list:HAVE_ISIS_SR,feature-list:HAVE_ISIS_TI_LFA}?
|    +--ro neighbor-protocol?        ipi-isis-types:isis_neighbour_protocol_t
|    +--ro area-address*             string
+--rw interface-parameters
| +--rw config
| | +--rw network-type?              ipi-isis-types:isis_network_t
| | +--rw circuit-type?              ipi-isis-types:isis_circuit_type_t
| | +--rw ipv4-instance-tag?         string
| | +--rw ipv6-instance-tag?         string {feature-list:HAVE_IPV6}?
| | +--rw lsp-interval?              uint32
| | +--rw retransmit-interval?       uint16
| | +--rw disable-padding?           empty
| | +--rw mesh-group-id?             ipi-isis-types:isis_mesh_type_t
| | +--rw delay-normalize-interval?  uint32
| | +--rw delay-normalize-offset?    uint32
| +--ro state
```


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```
| | +--ro network-type?              ipi-isis-types:isis_network_t
| | +--ro circuit-type?              ipi-isis-types:isis_circuit_type_t
| | +--ro ipv4-instance-tag?         string
| | +--ro ipv6-instance-tag?         string {feature-list:HAVE_IPV6}?
| | +--ro lsp-interval?              uint32
| | +--ro retransmit-interval?       uint16
| | +--ro disable-padding?           empty
| | +--ro mesh-group-id?             ipi-isis-types:isis_mesh_type_t
| | +--ro delay-normalize-interval?  uint32
| | +--ro delay-normalize-offset?    uint32
| +--rw bfd {feature-list:HAVE_BFD}?
| | +--rw config
| | | +--rw enable?    empty
| | | +--rw disable?   empty
| | +--ro state
| |   +--ro enable?    empty
| |   +--ro disable?   empty
| +--rw fast-re-route
| | +--rw config
| | | +--rw disable-level-1?   empty {feature-list:HAVE_ISIS_LFA}?
| | | +--rw disable-level-2?   empty {feature-list:HAVE_ISIS_LFA}?
| | +--ro state
| |   +--ro disable-level-1?   empty {feature-list:HAVE_ISIS_LFA}?
| |   +--ro disable-level-2?   empty {feature-list:HAVE_ISIS_LFA}?
| +--rw level-infos
|   +--rw level-info* [level]
|     +--rw level           -> ../config/level
|     +--rw config
|     | +--rw level?                          ipi-isis-types:isis_level_t
|     | +--rw hello-interval?                 uint16
|     | +--rw hello-multiplier?               uint8
|     | +--rw csnp-interval?                  uint16
|     | +--rw priority?                       uint8
|     | +--rw metric?                         uint8
|     | +--rw password?                       string
|     | +--rw tag?                            uint32
```

```
|       | +--rw wide-metric?                      uint32
|       | +--rw te-metric?                      uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw restart-hello-interval?               uint16
|       | +--rw te-metric-flex-algo-ipv4?             uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw te-metric-flex-algo-ipv6?             uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-ipv4?                uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-ipv6?                uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-flex-algo-ipv4?      uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw bandwidth-metric-flex-algo-ipv6?      uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--rw te-minimum-delay?                   uint32
|       | +--rw te-maximum-delay?                   uint32
|       | +--rw te-minimum-delay-flex-algo?           uint32
|       | +--rw te-maximum-delay-flex-algo?           uint32
|       | +--rw extended-admin-group-flex-algo*       -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_ISIS_TE}?
|       | +--rw extended-admin-group-flex-algo-anomaly*   -> /ipi-global-te:extended-admin-groups/extended-
admin-group/name {feature-list:HAVE_ISIS_TE}?
|       | +--rw admin-group-flex-algo*                -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?
|       | +--rw admin-group-flex-algo-anomaly*        -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?
|       | +--rw shared-risk-link-group-flex-algo*     uint32 {feature-list:HAVE_SRLG}?
|       +--ro state
|       | +--ro level?                        ipi-isis-types:isis_level_t
|       | +--ro hello-interval?                 uint16
|       | +--ro hello-multiplier?                uint8
|       | +--ro csnp-interval?                  uint16
|       | +--ro priority?                     uint8
|       | +--ro metric?                       uint8
|       | +--ro password?                       string
|       | +--ro tag?                          uint32
|       | +--ro wide-metric?                    uint32
|       | +--ro te-metric?                    uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--ro restart-hello-interval?              uint16
|       | +--ro te-metric-flex-algo-ipv4?             uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--ro te-metric-flex-algo-ipv6?             uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--ro bandwidth-metric-ipv4?                uint32 {feature-list:HAVE_ISIS_TE}?
|       | +--ro bandwidth-metric-ipv6?                uint32 {feature-list:HAVE_ISIS_TE}?
```


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```
        |       | +--ro bandwidth-metric-flex-algo-ipv4?          uint32 {feature-list:HAVE_ISIS_TE}?
        |       | +--ro bandwidth-metric-flex-algo-ipv6?          uint32 {feature-list:HAVE_ISIS_TE}?
        |       | +--ro te-minimum-delay?                         uint32
        |       | +--ro te-maximum-delay?                         uint32
        |       | +--ro te-minimum-delay-flex-algo?               uint32
        |       | +--ro te-maximum-delay-flex-algo?               uint32
        |       | +--ro extended-admin-group-flex-algo*           -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_ISIS_TE}?
        |       | +--ro extended-admin-group-flex-algo-anomaly*   -> /ipi-global-te:extended-admin-groups/extended-
admin-group/name {feature-list:HAVE_ISIS_TE}?
        |       | +--ro admin-group-flex-algo*                    -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?
        |       | +--ro admin-group-flex-algo-anomaly*            -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_ISIS_TE}?
        |       | +--ro shared-risk-link-group-flex-algo*         uint32 {feature-list:HAVE_SRLG}?
        |       +--rw authentication
        |         +--rw config!
        |         | +--rw mode         ipi-isis-types:isis_auth_mode_t
        |         | +--rw key-chain?   string
        |         +--ro state
        |           +--ro mode         ipi-isis-types:isis_auth_mode_t
        |           +--ro key-chain?   string
        +--rw igp-ldp-sync {feature-list:HAVE_LDPD}?
          +--rw config!
          | +--rw level         ipi-isis-types:isis_level_igp_sync_t
          | +--rw hold-timer    uint32
          +--ro state
            +--ro level             ipi-isis-types:isis_level_igp_sync_t
            +--ro hold-timer        uint32
            +--ro interface-name?   string

rpcs:
  +---x isis-restart-graceful {feature-list:HAVE_RESTART}?
  | +---w input
  |    +---w grace-period?   uint16
  +---x isis-clear-interface-counters {feature-list:HAVE_ISISD}?
  | +---w input
  |    +---w name?   string
```

```
+---x isis-clear-is-neighbors {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w system-id    string
+---x isis-clear-clns-neighbors {feature-list:HAVE_ISISD}?
+---x isis-clear-ip-route {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w instance?     string
|     +---w ipv4-route    ipi-isis-types:isis_route_t
+---x isis-clear-ipv6-route {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w instance?     string
|     +---w ipv6-route    ipi-isis-types:isis_route_t
+---x isis-process-clear {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w instance    string
+---x isis-clear-counters {feature-list:HAVE_ISISD}?
+---x isis-clear-te-global-counters {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w te-global-counter-options    ipi-isis-types:isis_te_global_counter_type_t
+---x isis-clear-adjacency-all {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w adjacency-vrf-name?   string
+---x isis-process-clear-adjacency-all {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w tag-name              string
|     +---w adjacency-vrf-name?   string
+---x isis-process-clear-adjacency-interface {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w tag-name              string
|     +---w tag-if-name?          string
|     +---w adjacency-vrf-name?   string
+---x isis-clear-adjacency-interface {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w adjacency-if-name?    string
|     +---w adjacency-vrf-name?   string
+---x isis-process-clear-adjacency-system-id {feature-list:HAVE_ISISD}?
```


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```
|  +---w input
|     +---w tag-name         string
|     +---w tag-system-id    ipi-isis-types:isis_systemid_t
|     +---w tag-vrf-name?    string
+---x isis-clear-adjacency-system-id {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w adjacency-system-id    ipi-isis-types:isis_systemid_t
|     +---w adjacency-vrf-name?    string
+---x isis-restart-snmp {feature-list:HAVE_SNMP}?
+---x isis-terminal-debug-all-on {feature-list:HAVE_ISISD}?
+---x isis-terminal-debug-all-off {feature-list:HAVE_ISISD}?
+---x isis-terminal-debug-on {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w terminal-debug-options    ipi-isis-types:isis_debug_t
+---x isis-debug-off {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w terminal-debug-options    ipi-isis-types:isis_debug_t
+---x isis-debug-hello-on {feature-list:HAVE_ISISD}?
+---x isis-debug-hello-off {feature-list:HAVE_ISISD}?
+---x isis-debug-interface-hello-on {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w interface    string
+---x isis-debug-interface-hello-off {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w interface    string
+---x isis-debug-system-id-hello-on {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w system-id    string
+---x isis-debug-system-id-hello-off {feature-list:HAVE_ISISD}?
|  +---w input
|     +---w system-id    string
+---x isis-all-debug-off {feature-list:HAVE_ISISD}?
+---x isis-debug-cspf-on {feature-list:HAVE_ISIS_CSPF}?
|  +---w input
|     +---w cspf-debug    ipi-isis-types:isis_cspf_debug_t
+---x isis-debug-cspf-off {feature-list:HAVE_ISIS_CSPF}?
```

```
    +---w input
      +---w cspf-debug    ipi-isis-types:isis_cspf_debug_t

notifications:
  +---n isis-database-overload
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro overload?     ipi-isis-types:isis_overload_state_t
  +---n isis-lsp-too-large
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro lsp-identifier?   string
  |  +--ro pdu-length?       uint32
  +---n isis-corrupted-lsp-detected
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro lsp-identifier?   string
  +---n isis-attempt-to-exceed-max-sequence
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro lsp-identifier?   string
  +---n isis-id-len-mismatch
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro pdu-field-len?   uint8
  |  +--ro raw-pdu?         string
  +---n isis-max-area-addresses-mismatch
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro max-area-addresses?   uint8
  |  +--ro raw-pdu?              string
  +---n isis-own-lsp-purge
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro lsp-identifier?   string
  +---n isis-sequence-number-skipped
```


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```
|  +--ro severity?         cml-data-types:cml_notif_severity_t
|  +--ro eventClass?       cml-data-types:cml_notif_class_t
|  +--ro lsp-identifier?   string
+---n isis-authentication-type-failure
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro raw-pdu?      string
+---n isis-authentication-failure
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro raw-pdu?      string
+---n isis-version-skew
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro protocol-version?  uint8
|  +--ro raw-pdu?           string
+---n isis-area-mismatch
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro raw-pdu?      string
+---n isis-rejected-adjacency
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro raw-pdu?      string
|  +--ro reason?       string
+---n isis-protocols-supported-mismatch
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro raw-pdu?      string
|  +--ro protocols?    uint8
+---n isis-lsp-error-detected
|  +--ro severity?         cml-data-types:cml_notif_severity_t
|  +--ro eventClass?       cml-data-types:cml_notif_class_t
|  +--ro lsp-identifier?   string
|  +--ro raw-pdu?          string
|  +--ro error-offset?     uint32
```

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```
  |  +--ro tlv-type?         uint8
  +---n isis-segment-routing-index-out-of-range {feature-list:HAVE_ISIS_SR}?
     +--ro severity?              cml-data-types:cml_notif_severity_t
     +--ro eventClass?            cml-data-types:cml_notif_class_t
     +--ro global-block-base?     int32
     +--ro global-block-range?    int32
     +--ro received-index?        uint32
     +--ro routing-protocol?      string
```

ipi-k3s

```
 +--rw k3s
    +--rw config
    |  +--rw enable?   empty
    +--ro state
       +--ro enable?   empty
```

ipi-keychain

```
 +--rw key-chains
    +--rw key-chain* [name]
       +--rw name      -> ../config/name
       +--rw config
       |  +--rw name?   string
       +--ro state
       |  +--ro name?   string
       +--rw keys
          +--rw key-list* [key-id]
             +--rw key-id             -> ../config/key-id
             +--rw config
             |  +--rw key-id?             uint32
             |  +--rw (key-style)?
             |     +--:(key-string)
             |     |  +--rw key-string?   string
             |     +--:(hexadecimal)
```


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```
|       +--rw encrypted?    keychain_hex_string_t
+--ro state
|  +--ro key-id?            uint32
|  +--ro (key-style)?
|     +--:(key-string)
|     |  +--ro key-string?   string
|     +--:(hexadecimal)
|        +--ro encrypted?    keychain_hex_string_t
+--rw accept-lifetime
|  +--rw config
|  |  +--rw start-date-time-for-accept?       keychain_date_time_t
|  |  +--rw (end-time)?
|  |     +--:(end-time)
|  |     |  +--rw end-date-time-for-accept?   keychain_date_time_t
|  |     +--:(infinite)
|  |     |  +--rw infinite-for-accept?        empty
|  |     +--:(duration)
|  |        +--rw duration-for-accept?        uint32
|  +--ro state
|     +--ro start-date-time-for-accept?       keychain_date_time_t
|     +--ro (end-time)?
|        +--:(end-time)
|        |  +--ro end-date-time-for-accept?   keychain_date_time_t
|        +--:(infinite)
|        |  +--ro infinite-for-accept?        empty
|        +--:(duration)
|           +--ro duration-for-accept?        uint32
+--rw send-lifetime
   +--rw config
   |  +--rw start-date-time-for-send?       keychain_date_time_t
   |  +--rw (end-time)?
   |     +--:(end-time)
   |     |  +--rw end-date-time-for-send?   keychain_date_time_t
   |     +--:(infinite)
   |     |  +--rw infinite-for-send?        empty
   |     +--:(duration)
```

```
|       +--rw duration-for-send?        uint32
+--ro state
  +--ro start-date-time-for-send?       keychain_date_time_t
  +--ro (end-time)?
    +--:(end-time)
    |  +--ro end-date-time-for-send?   keychain_date_time_t
    +--:(infinite)
    |  +--ro infinite-for-send?        empty
    +--:(duration)
      +--ro duration-for-send?        uint32
```

ipi-l2vpn-vpls

```
 +--rw vpls
   +--rw attachment-circuit
   |  +--rw service-template-mappings
   |    +--rw service-template-mapping* [interface-name vpls-name service-template-name]
   |       +--rw interface-name               -> ../config/interface-name
   |       +--rw vpls-name                    -> ../config/vpls-name
   |       +--rw service-template-name        -> ../config/service-template-name
   |       +--rw config
   |       |  +--rw interface-name?              -> /ipi-interface:interfaces/interface/name
   |       |  +--rw service-template-name?       -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-template/config/name
   |       |  +--rw vpls-name?                   string
   |       |  +--rw admin-status?                ipi-vpls-types:vpls_ac_admin_status_t
   |       |  +--rw attachment-circuit-description?   cml-data-types:cml_line_t
   |       |  +--rw mac-learning?                ipi-vpls-types:vpls_mac_learning_t
   |       |  +--rw split-horizon?               ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
   |       |  +--rw static-mac-address*          cml-data-types:cml_mac_addr_t
   |       +--ro state
   |       |  +--ro interface-name?              -> /ipi-interface:interfaces/interface/name
   |       |  +--ro service-template-name?       -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-template/config/name
   |       |  +--ro vpls-name?                   string
   |       |  +--ro admin-status?                ipi-vpls-types:vpls_ac_admin_status_t
```


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```
|       | +--ro attachment-circuit-description?   cml-data-types:cml_line_t
|       | +--ro mac-learning?                     ipi-vpls-types:vpls_mac_learning_t
|       | +--ro split-horizon?                    ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
|       | +--ro static-mac-address*               cml-data-types:cml_mac_addr_t
|       +--rw quality-of-service-profiles
|         +--rw quality-of-service-profile* [profile-type profile-name] {feature-list:HAVE_QOS}?
|           +--rw profile-type    -> ../config/profile-type
|           +--rw profile-name    -> ../config/profile-name
|           +--rw config
|           | +--rw profile-type?   ipi-vpls-types:vpls_qos_map_profile_type_t
|           | +--rw profile-name?   string
|           +--ro state
|             +--ro profile-type?   ipi-vpls-types:vpls_qos_map_profile_type_t
|             +--ro profile-name?   string
+--rw static-forwarding
| +--rw vpls-entries
| | +--rw vpls-entry* [vpls-identifier peer-address]
| |    +--rw vpls-identifier    -> ../config/vpls-identifier
| |    +--rw peer-address       -> ../config/peer-address
| |    +--rw config
| |    | +--rw vpls-identifier?      -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier
| |    | +--rw peer-address?         -> /ipi-network-instance:network-instances/network-instance/vpls-instance/vpls-
peers/vpls-peer/config/peer-address
| |    | +--rw in-label              uint32
| |    | +--rw out-label             uint32
| |    | +--rw out-interface-name    string
| |    +--ro state
| |      +--ro vpls-identifier?      -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier
| |      +--ro peer-address?         -> /ipi-network-instance:network-instances/network-instance/vpls-instance/vpls-
peers/vpls-peer/config/peer-address
| |      +--ro in-label              uint32
| |      +--ro out-label             uint32
| |      +--ro out-interface-name    string
| +--rw hierarchical-vpls-entries
|    +--rw hierarchical-vpls-entry* [vpls-identifier spoke-pseudowire-name]
|      +--rw vpls-identifier         -> ../config/vpls-identifier
```

```
|       +--rw spoke-pseudowire-name    -> ../config/spoke-pseudowire-name
|       +--rw config
|       | +--rw vpls-identifier?         -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier
|       | +--rw spoke-pseudowire-name?   -> /ipi-network-instance:network-instances/network-instance/vpls-instance/
spoke-pseudowires/spoke-pseudowire/config/pseudowire-name
|       | +--rw in-label                 uint32
|       | +--rw out-label                uint32
|       | +--rw out-interface-name       string
|       +--ro state
|         +--ro vpls-identifier?         -> /ipi-network-instance:network-instances/network-instance/vpls-instance/config/
vpls-identifier
|         +--ro spoke-pseudowire-name?   -> /ipi-network-instance:network-instances/network-instance/vpls-instance/
spoke-pseudowires/spoke-pseudowire/config/pseudowire-name
|         +--ro in-label                 uint32
|         +--ro out-label                uint32
|         +--ro out-interface-name       string
+--rw mac-move-global
| +--rw config
| | +--rw detect-time?       uint16
| | +--rw detect-interval?   uint16
| +--ro state
|   +--ro detect-time?       uint16
|   +--ro detect-interval?   uint16
+--rw mac-limit-profiles
| +--rw mac-limit-profile* [profile-name] {feature-list:HAVE_VPLS}?
|   +--rw profile-name    -> ../config/profile-name
|   +--rw config
|   | +--rw profile-name?                string
|   | +--rw learning-limit?              uint16
|   | +--rw action?                      ipi-vpls-types:vpls_mpls_mac_limit_action_t
|   | +--rw high-watermark?              uint16
|   | +--rw low-watermark?               uint16
|   | +--rw errdisable-timeout-interval?   uint32
|   +--ro state
|     +--ro profile-name?                string
|     +--ro learning-limit?              uint16
|     +--ro action?                      ipi-vpls-types:vpls_mpls_mac_limit_action_t
```


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```
  |       +--ro high-watermark?               uint16
  |       +--ro low-watermark?                uint16
  |       +--ro errdisable-timeout-interval?   uint32
  +--rw interfaces
  |  +--rw interface* [name]
  |     +--rw name          -> ../config/name
  |     +--rw config
  |     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
  |     +--ro state
  |     |  +--ro name?   -> /ipi-interface:interfaces/interface/name
  |     +--rw vpls-access {feature-list:HAVE_SUBINTERFACE}?
  |        +--rw config!
  |        |  +--rw enable                empty
  |        |  +--rw vpls-name?            string
  |        |  +--rw disable-mac-learning?   empty
  |        |  +--rw learning-limit?         -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
  |        |  +--rw static-mac-address*     cml-data-types:cml_mac_addr_t
  |        +--ro state
  |           +--ro enable                empty
  |           +--ro vpls-name?            string
  |           +--ro disable-mac-learning?   empty
  |           +--ro learning-limit?         -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
  |           +--ro static-mac-address*     cml-data-types:cml_mac_addr_t
  +--rw global
     +--ro state
        +--ro counters
           +--ro total-instances?          yang:counter32
           +--ro total-peers?              yang:counter32
           +--ro active-peer-instances?     yang:counter32
           +--ro inactive-peer-instances?   yang:counter32

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:
  +--rw vpls-instance
     +--rw config!
     |  +--rw vpls-identifier                   uint32
     |  +--rw service-transport-identifier?       ipi-vpls-types:vpls_svc_tpid_t
```

```
      |  +--rw route-map?                        string
      |  +--rw maximum-transmission-unit?        uint16
      |  +--rw vpls-description?                 cml-data-types:cml_line_t
      |  +--rw control-word?                     empty
      |  +--rw mac-learning-disable?             empty
      |  +--rw mac-learning-limit?               uint32 {feature-list:NOT_HAVE_TRIDENT2,feature-
list:NOT_HAVE_TRIDENT2PLUS}?
      |  +--rw attachment-circuit-group-name?    -> /ipi-mpls:mpls/l2vpn/access-circuit-groups/access-circuit-group/
config/group-name
      |  +--rw mac-withdrawal?                   ipi-vpls-types:vpls_mpls_mac_withdrawal_t
      |  +--rw mac-flush-send-on-mlag-switchover?   empty
      +--ro state
      |  +--ro vpls-identifier                   uint32
      |  +--ro service-transport-identifier?     ipi-vpls-types:vpls_svc_tpid_t
      |  +--ro route-map?                        string
      |  +--ro maximum-transmission-unit?        uint16
      |  +--ro vpls-description?                 cml-data-types:cml_line_t
      |  +--ro control-word?                     empty
      |  +--ro mac-learning-disable?             empty
      |  +--ro mac-learning-limit?               uint32 {feature-list:NOT_HAVE_TRIDENT2,feature-
list:NOT_HAVE_TRIDENT2PLUS}?
      |  +--ro attachment-circuit-group-name?    -> /ipi-mpls:mpls/l2vpn/access-circuit-groups/access-circuit-group/
config/group-name
      |  +--ro mac-withdrawal?                   ipi-vpls-types:vpls_mpls_mac_withdrawal_t
      |  +--ro mac-flush-send-on-mlag-switchover?   empty
      |  +--ro signaling-protocol?               ipi-vpls-types:vpls_signaling_type_t
      |  +--ro route-distinguisher?              string
      |  +--ro route-target?                     string
      |  +--ro vpls-edge-id?                     uint32
      |  +--ro attachment-circuit-status?        ipi-vpls-types:vpls_ac_status_t
      |  +--ro vpls-type?                        ipi-vpls-types:vpls_vc_type_t
      |  +--ro service-vlan-id?                  uint16
      |  +--ro group-identifier?                 uint32
      |  +--ro total-mac-addresses-learnt?       uint32
      |  +--ro vc-id?                            uint32
      |  +--ro vc-name?                          string
      |  +--ro peer-address?                     string
      |  +--ro spoke-state?                      ipi-vpls-types:vpls_peer_state_t
```


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```
+--rw spoke-pseudowires
|  +--rw spoke-pseudowire* [pseudowire-name]
|     +--rw pseudowire-name    -> ../config/pseudowire-name
|     +--rw config
|     |  +--rw pseudowire-name?             string
|     |  +--rw secondary-pseudowire-name?   string
|     |  +--rw learning-limit?              -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
|     |  +--rw enable-revertive-mode?       empty
|     |  +--rw revertive-timer?             uint16
|     |  +--rw split-horizon?               ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
|     +--ro state
|        +--ro pseudowire-name?             string
|        +--ro secondary-pseudowire-name?   string
|        +--ro learning-limit?              -> /vpls/mac-limit-profiles/mac-limit-profile/config/profile-name
|        +--ro enable-revertive-mode?       empty
|        +--ro revertive-timer?             uint16
|        +--ro split-horizon?               ipi-if-types:if_split_horizon_t {feature-list:HAVE_CUSTOM2_MPLS}?
+--rw fat-label
|  +--rw config!
|  |  +--rw enable-flow-label               empty
|  |  +--rw flow-label-direction?           ipi-vpls-types:vpls_mpls_flow_label_direction_t
|  |  +--rw enable-static-flow-label?       empty
|  |  +--rw enable-interface-parameter-tlv?   empty
|  +--ro state
|     +--ro enable-flow-label               empty
|     +--ro flow-label-direction?           ipi-vpls-types:vpls_mpls_flow_label_direction_t
|     +--ro enable-static-flow-label?       empty
|     +--ro enable-interface-parameter-tlv?   empty
+--rw vpls-peers
|  +--rw vpls-peer* [peer-address]
|  |  +--rw peer-address    -> ../config/peer-address
|  |  +--rw config
|  |  |  +--rw peer-address?       inet:ipv4-address
|  |  |  +--rw tunnel-name?        string
|  |  |  +--rw tunnel-policy?      string {feature-list:HAVE_SERVICE_MAPPING}?
|  |  |  +--rw tunnel-identifier?   uint32
```

```
      | | | +--rw peer-type?          ipi-vpls-types:vpls_peer_type_t
      | | | +--rw vpls-type?          ipi-vpls-types:vpls_vc_type_t
      | | +--ro state
      | | | +--ro peer-address?       inet:ipv4-address
      | | | +--ro tunnel-name?        string
      | | | +--ro tunnel-policy?      string {feature-list:HAVE_SERVICE_MAPPING}?
      | | | +--ro tunnel-identifier?  uint32
      | | | +--ro peer-type?          ipi-vpls-types:vpls_peer_type_t
      | | | +--ro vpls-type?          ipi-vpls-types:vpls_vc_type_t
      | | +--rw fec129s
      | |    +--rw fec129* [attachment-group-identifier source-attachment-individual-identifier target-attachment-
individual-identifier]
      | |       +--rw attachment-group-identifier              -> ../config/attachment-group-identifier
      | |       +--rw source-attachment-individual-identifier  -> ../config/source-attachment-individual-identifier
      | |       +--rw target-attachment-individual-identifier  -> ../config/target-attachment-individual-identifier
      | |       +--rw config
      | |       | +--rw attachment-group-identifier?             string
      | |       | +--rw source-attachment-individual-identifier?  string
      | |       | +--rw target-attachment-individual-identifier?  string
      | |       | +--rw tunnel-name?                       string
      | |       | +--rw tunnel-policy?                     string {feature-list:HAVE_SERVICE_MAPPING}?
      | |       | +--rw tunnel-identifier?                 string
      | |       +--ro state
      | |         +--ro attachment-group-identifier?             string
      | |         +--ro source-attachment-individual-identifier?  string
      | |         +--ro target-attachment-individual-identifier?  string
      | |         +--ro tunnel-name?                       string
      | |         +--ro tunnel-policy?                     string {feature-list:HAVE_SERVICE_MAPPING}?
      | |         +--ro tunnel-identifier?                 string
      | +--rw config!
      | | +--rw signaling-protocol-ldp     empty
      | | +--rw disable-mac-withdrawal?    empty
      | | +--rw vpls-ac-treatment-type?    ipi-vpls-types:cml_nsm_vpls_ac_treat_type_t
      | | +--rw vpls-encapsulation-type?   ipi-vpls-types:vpls_vc_type_t
      | +--ro state
      |   +--ro signaling-protocol-ldp     empty
      |   +--ro disable-mac-withdrawal?    empty
```


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```
|    +--ro vpls-ac-treatment-type?    ipi-vpls-types:cml_nsm_vpls_ac_treat_type_t
|    +--ro vpls-encapsulation-type?   ipi-vpls-types:vpls_vc_type_t
+--rw ldp-sig-bgp-autodiscovery {feature-list:HAVE_BGP_VPLS}?
|  +--rw config!
|  |  +--rw rd-string?            string
|  |  +--rw l2vpn-id?             string
|  |  +--rw bgp-auto-discovery    empty
|  +--ro state
|  |  +--ro rd-string?            string
|  |  +--ro l2vpn-id?             string
|  |  +--ro bgp-auto-discovery    empty
|  +--rw route-targets
|     +--rw route-target* [rt-string]
|        +--rw rt-string    -> ../config/rt-string
|        +--rw config
|        |  +--rw rt-string?   ipi-bgp-types:bgp_vrf_rt_t
|        |  +--rw direction    ipi-bgp-types:bgp_target_route_type_t
|        +--ro state
|           +--ro rt-string?   ipi-bgp-types:bgp_vrf_rt_t
|           +--ro direction    ipi-bgp-types:bgp_target_route_type_t
+--rw bgp-signaling {feature-list:HAVE_BGP_VPLS}?
|  +--rw config!
|  |  +--rw signaling-protocol-bgp    empty
|  |  +--rw vpls-edge-identifier?     uint16
|  |  +--rw tunnel-policy?            string {feature-list:HAVE_SERVICE_MAPPING}?
|  +--ro state
|     +--ro signaling-protocol-bgp    empty
|     +--ro vpls-edge-identifier?     uint16
|     +--ro tunnel-policy?            string {feature-list:HAVE_SERVICE_MAPPING}?
+--rw quality-of-service-profiles
|  +--rw quality-of-service-profile* [profile-type profile-name] {feature-list:HAVE_QOS}?
|     +--rw profile-type    -> ../config/profile-type
|     +--rw profile-name    -> ../config/profile-name
|     +--rw config
|     |  +--rw profile-type?   ipi-vpls-types:vpls_qos_map_profile_type_t
|     |  +--rw profile-name?   string
```

```
|    +--ro state
|       +--ro profile-type?   ipi-vpls-types:vpls_qos_map_profile_type_t
|       +--ro profile-name?   string
+--ro mac-learning-table* [mac-address]
| +--ro mac-address    -> ../state/mac-address
| +--ro state
|    +--ro mac-address?               cml-data-types:cml_mac_addr_t
|    +--ro vpls-identifier?           uint32
|    +--ro learning-source-interface?   string
|    +--ro matched-vlan?              uint16
|    +--ro peer-address?              inet:ipv4-address
|    +--ro ageing-timeout?            uint32
+--rw vpls-mac-move-instance
| +--rw config!
| | +--rw mac-move-instance               empty
| | +--rw detect-time?                    uint16
| | +--rw detect-interval?                uint16
| | +--rw errdisable-timeout-interval?    uint32
| | +--rw errdisable-allow-mesh-blocking?   empty
| +--ro state
|    +--ro mac-move-instance               empty
|    +--ro detect-time?                    uint16
|    +--ro detect-interval?                uint16
|    +--ro errdisable-timeout-interval?    uint32
|    +--ro errdisable-allow-mesh-blocking?   empty
+--ro peer-list* [peer-address]
| +--ro peer-address    -> ../state/peer-address
| +--ro state
|    +--ro peer-address?              inet:ipv4-address
|    +--ro vpls-identifier?           uint32
|    +--ro route-distinguisher?       string
|    +--ro vpls-edge-id?              uint32
|    +--ro maximum-transmission-unit?   uint16
|    +--ro tunnel-label?              uint32
|    +--ro pseudowire-in-label?       uint32
|    +--ro pseudowire-out-label?      uint32
```


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```
|     +--ro peer-state?                ipi-vpls-types:vpls_peer_state_t
|     +--ro up-time?                   cml-data-types:cml_line_t
|     +--ro pseudowire-status?         ipi-vpls-types:vpls_pseudowire_status_t
|     +--ro peer-vpls-type?            ipi-vpls-types:vpls_vc_type_t
|     +--ro network-interface?         string
|     +--ro signaling-protocol?        ipi-vpls-types:vpls_signaling_type_t
+--ro access-interface-counters* [interface-name] {feature-list:HAVE_MPLS_STATS}?
|  +--ro interface-name    -> ../state/interface-name
|  +--ro state
|     +--ro interface-name?         -> /ipi-interface:interfaces/interface/name
|     +--ro vpls-identifier?        uint32
|     +--ro service-template-name?  string
|     +--ro in-packets?             uint64
|     +--ro in-bytes?               uint64
|     +--ro out-packets?            uint64
|     +--ro out-bytes?              uint64
+--ro network-interface-counters* [peer-address] {feature-list:HAVE_MPLS_STATS}?
   +--ro peer-address    -> ../state/peer-address
   +--ro state
      +--ro peer-address?      inet:ipv4-address
      +--ro vpls-identifier?   uint32
      +--ro peer-state?        ipi-vpls-types:vpls_peer_state_t
      +--ro interface-name?    -> /ipi-interface:interfaces/interface/name
      +--ro in-packets?        uint64
      +--ro in-bytes?          uint64
      +--ro out-packets?       uint64
      +--ro out-bytes?         uint64


 rpcs:
  +---x clear-mpls-vpls-name-statistics-port-type {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_VPLS}?
  |  +---w input
  |     +---w port-type            ipi-vpls-types:vpls_port_type_t
  |     +---w port-circuit-name    string
  +---x clear-mpls-vpls-name-statistics-network-port-peer {feature-list:HAVE_MPLS_STATS,feature-
list:HAVE_VPLS}?
  |  +---w input
  |     +---w port-circuit-name    string
```

```
   |     +---w vc-circuit-type      ipi-vpls-types:vpls_peer_address_type_t
   +---x clear-mpls-vpls-name-statistics-network-port-spoke {feature-list:HAVE_MPLS_STATS,feature-
list:HAVE_VPLS}?
   |  +---w input
   |     +---w port-circuit-name    string
   |     +---w vc-circuit-type      ipi-vpls-types:vpls_spoke_vc_type_t
   +---x clear-mpls-vpls-name-statistics-access-port {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_VPLS}?
   |  +---w input
   |     +---w port-circuit-name    string
   |     +---w vc-interface-name    string
   |     +---w vc-access-type       ipi-vpls-types:vpls_mpls_access_type_t
   +---x clear-mpls-vpls-name-statistics {feature-list:HAVE_VPLS,feature-list:HAVE_MPLS_STATS}?
   |  +---w input
   |     +---w vpls-circuit-name    string
   +---x clear-mpls-vpls-mac-addresses-for-instance {feature-list:HAVE_VPLS}?
   |  +---w input
   |     +---w name    string
   +---x clear-mpls-vpls-mac-addresses-all {feature-list:HAVE_VPLS}?
   +---x clear-mpls-vpls-mac-move-for-instance {feature-list:HAVE_VPLS}?
      +---w input
         +---w name    string

 notifications:
   +---n mpls-vpls-session-up
   |  +--ro severity?          cml-data-types:cml_notif_severity_t
   |  +--ro eventClass?        cml-data-types:cml_notif_class_t
   |  +--ro peer-address?      inet:ipv4-address
   |  +--ro instance-type?     ipi-network-instance-types:net_inst_type_t
   |  +--ro instance-name?     string
   |  +--ro vpls-identifier?   uint32
   |  +--ro peer-state?        ipi-vpls-types:vpls_peer_state_t
   +---n mpls-vpls-session-down
   |  +--ro severity?          cml-data-types:cml_notif_severity_t
   |  +--ro eventClass?        cml-data-types:cml_notif_class_t
   |  +--ro peer-address?      inet:ipv4-address
   |  +--ro instance-type?     ipi-network-instance-types:net_inst_type_t
   |  +--ro instance-name?     string
```


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```
  |  +--ro vpls-identifier?   uint32
  |  +--ro peer-state?        ipi-vpls-types:vpls_peer_state_t
  +---n mpls-vpls-spoke-session-up
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro instance-type?     ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?     string
  |  +--ro vpls-identifier?   uint32
  |  +--ro vc-id?             uint32
  |  +--ro vc-name?           string
  |  +--ro peer-address?      string
  |  +--ro spoke-state?       ipi-vpls-types:vpls_peer_state_t
  +---n mpls-vpls-spoke-session-down
     +--ro severity?          cml-data-types:cml_notif_severity_t
     +--ro eventClass?        cml-data-types:cml_notif_class_t
     +--ro instance-type?     ipi-network-instance-types:net_inst_type_t
     +--ro instance-name?     string
     +--ro vpls-identifier?   uint32
     +--ro vc-id?             uint32
     +--ro vc-name?           string
     +--ro peer-address?      string
     +--ro spoke-state?       ipi-vpls-types:vpls_peer_state_t
```

ipi-l2vpn-vpws

```
 +--rw vpws
    +--rw interfaces
    |  +--rw interface* [name]
    |     +--rw name                      -> ../config/name
    |     +--rw config
    |     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
    |     +--ro state
    |     |  +--ro name?   -> /ipi-interface:interfaces/interface/name
    |     +--rw pseudowire-modes
    |     |  +--rw pseudowire-mode* [service-template]
    |     |     +--rw service-template    -> ../config/service-template
```

```
    |    |    +--rw config
    |    |    | +--rw service-template?   string
    |    |    | +--rw mode               ipi-vpws-types:vpws_mpls_vcmode_t
    |    |    +--ro state
    |    |      +--ro service-template?   string
    |    |      +--ro mode               ipi-vpws-types:vpws_mpls_vcmode_t
    |    +--rw vpws-access {feature-list:HAVE_SUBINTERFACE}?
    |    | +--rw config!
    |    | | +--rw enable                                empty
    |    | | +--rw enable-revertive-mode?                    empty
    |    | | +--rw revertive-timer?                          uint16
    |    | | +--rw mac-withdrawal-send-on-vpws-vc-switchover?   empty
    |    | +--ro state
    |    | | +--ro enable                                empty
    |    | | +--ro enable-revertive-mode?                    empty
    |    | | +--ro revertive-timer?                          uint16
    |    | | +--ro mac-withdrawal-send-on-vpws-vc-switchover?   empty
    |    | +--rw bindings
    |    |    +--rw binding* [vpws-name]
    |    |      +--rw vpws-name    -> ../config/vpws-name
    |    |      +--rw config
    |    |      | +--rw vpws-name?             string
    |    |      | +--rw pseudowire-link-mode    ipi-vpws-types:vpws_mpls_vclinkmode_t
    |    |      +--ro state
    |    |        +--ro vpws-name?             string
    |    |        +--ro pseudowire-link-mode    ipi-vpws-types:vpws_mpls_vclinkmode_t
    |    +--rw service-template-mappings
    |      +--rw service-template-mapping* [pseudowire-name]
    |        +--rw pseudowire-name    -> ../config/pseudowire-name
    |        +--rw config
    |        | +--rw pseudowire-name?            string
    |        | +--rw service-template-name       -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-
template/name
    |        | +--rw pseudowire-link-mode        ipi-vpws-types:vpws_mpls_vclinkmode_t
    |        | +--rw cos-to-queue-profile-name?   string {feature-list:HAVE_QOS_MAPPING_PROFILE}?
    |        | +--rw queue-to-cos-profile-name?   string {feature-list:HAVE_QOS_MAPPING_PROFILE,feature-
list:NOT_HAVE_CUSTOM1_MPLS}?
```


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```
|          +--ro state
|            +--ro pseudowire-name?             string
|            +--ro service-template-name        -> /ipi-mpls:mpls/l2vpn/customer-service-templates/customer-service-template/name
|            +--ro pseudowire-link-mode         ipi-vpws-types:vpws_mpls_vclinkmode_t
|            +--ro cos-to-queue-profile-name?   string {feature-list:HAVE_QOS_MAPPING_PROFILE}?
|            +--ro queue-to-cos-profile-name?   string {feature-list:HAVE_QOS_MAPPING_PROFILE,feature-list:NOT_HAVE_CUSTOM1_MPLS}?
+--rw static-forwarding
|  +--rw forwarding-information-bases
|    +--rw forwarding-information-base* [pseudowire-identifier nexthop-address]
|       +--rw pseudowire-identifier    -> ../config/pseudowire-identifier
|       +--rw nexthop-address          -> ../config/nexthop-address
|       +--rw config
|       |  +--rw pseudowire-identifier?     -> /ipi-network-instance:network-instances/network-instance/vpws-instance/pseudowires/pseudowire/config/pseudowire-identifier
|       |  +--rw incoming-label             uint32
|       |  +--rw outgoing-label             uint32
|       |  +--rw nexthop-address?           inet:ip-address
|       |  +--rw provider-interface-name    -> /ipi-interface:interfaces/interface/name
|       |  +--rw access-interface-name      -> /vpws/interfaces/interface/name
|       +--ro state
|          +--ro pseudowire-identifier?     -> /ipi-network-instance:network-instances/network-instance/vpws-instance/pseudowires/pseudowire/config/pseudowire-identifier
|          +--ro incoming-label             uint32
|          +--ro outgoing-label             uint32
|          +--ro nexthop-address?           inet:ip-address
|          +--ro provider-interface-name    -> /ipi-interface:interfaces/interface/name
|          +--ro access-interface-name      -> /vpws/interfaces/interface/name
+--ro global
   +--ro state
      +--ro counters
         +--ro total-pseudowires?      uint32
         +--ro active-pseudowires?     uint32
         +--ro inactive-pseudowires?   uint32
         +--ro oam-pseudowires?        uint32

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:
```

```
   +--rw vpws-instance
      +--rw pseudowires
      |  +--rw pseudowire* [pseudowire-identifier peer-address]
      |     +--rw pseudowire-identifier    -> ../config/pseudowire-identifier
      |     +--rw peer-address             -> ../config/peer-address
      |     +--rw config
      |     |  +--rw pseudowire-identifier?   uint32
      |     |  +--rw peer-address?            ipi-vpws-types:vpws_ip_addr_t
      |     +--ro state
      |     |  +--ro pseudowire-identifier?           uint32
      |     |  +--ro peer-address?                    ipi-vpws-types:vpws_ip_addr_t
      |     |  +--ro vc-admin-status?                 ipi-vpws-types:vpws_mpls_vc_admin_status_t {feature-
list:HAVE_UNI_CLI}?
      |     |  +--ro up-time?                         cml-data-types:cml_line_t
      |     |  +--ro transport-update?                cml-data-types:cml_line_t
      |     |  +--ro create-time?                     cml-data-types:cml_line_t
      |     |  +--ro owner?                           ipi-vpws-types:vpws_mpls_vc_owner_t
      |     |  +--ro non-te-mapping-direction?        ipi-vpws-types:vpws_mpls_mapping_dir_t
      |     |  +--ro remote-pseudowire-status?        ipi-vpws-types:vpws_mpls_pw_status_t
      |     |  +--ro pseudowire-state?                ipi-vpws-types:vpws_mpls_pw_state_t
      |     |  +--ro pseudowire-index?                uint32
      |     |  +--ro pseudowire-type?                 ipi-vpws-types:vpws_mpls_pw_type_t
      |     |  +--ro pseudowire-mode?                 ipi-vpws-types:vpws_mpls_pw_mode_t
      |     |  +--ro pseudowire-label?                uint32
      |     |  +--ro tunnel-label?                    uint32
      |     |  +--ro network-interface-name?          string
      |     |  +--ro customer-service-template-name?  string
      |     |  +--ro ldp-ecmp-svc?                    string {feature-list:HAVE_MPLS_ECMP}?
      |     |  +--ro rsvp-multipath-svc?              string {feature-list:HAVE_RSVP_MULTIPATH}?
      |     |  +--ro down-reason?                     cml-data-types:cml_line_t
      |     +--rw default-tagged
      |     |  +--rw config!
      |     |  |  +--rw enable-default-tagged-mode       empty
      |     |  |  +--rw service-tpid?                    ipi-vpws-types:vpws_svc_tpid_t
      |     |  |  +--rw group-name?                      string
      |     |  |  +--rw group-identifier?                uint32
      |     |  |  +--rw enable-control-word?             empty
```


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```
|    | | +--rw tunnel-name?                  string
|    | | +--rw tunnel-policy?                string {feature-list:HAVE_SERVICE_MAPPING}?
|    | | +--rw tunnel-identifier?            uint32
|    | | +--rw enable-flow-label?            empty
|    | | +--rw flow-label-direction?         ipi-vpws-types:vpws_mpls_flow_label_direction_t
|    | | +--rw enable-static-flow-label?     empty
|    | | +--rw enable-interface-parameter-tlv?   empty
|    | | +--rw enable-manual-pseudowire?     empty
|    | | +--rw control-channel-type?         ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    | | +--rw control-verification-type?    ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    | +--ro state
|    |    +--ro enable-default-tagged-mode     empty
|    |    +--ro service-tpid?                  ipi-vpws-types:vpws_svc_tpid_t
|    |    +--ro group-name?                    string
|    |    +--ro group-identifier?              uint32
|    |    +--ro enable-control-word?           empty
|    |    +--ro tunnel-name?                   string
|    |    +--ro tunnel-policy?                 string {feature-list:HAVE_SERVICE_MAPPING}?
|    |    +--ro tunnel-identifier?             uint32
|    |    +--ro enable-flow-label?             empty
|    |    +--ro flow-label-direction?          ipi-vpws-types:vpws_mpls_flow_label_direction_t
|    |    +--ro enable-static-flow-label?      empty
|    |    +--ro enable-interface-parameter-tlv?   empty
|    |    +--ro enable-manual-pseudowire?      empty
|    |    +--ro control-channel-type?          ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    |    +--ro control-verification-type?     ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    +--rw tagged
|    | +--rw config!
|    | | +--rw enable-tagged-mode              empty
|    | | +--rw group-name?                     string
|    | | +--rw group-identifier?               uint32
|    | | +--rw enable-control-word?            empty
|    | | +--rw tunnel-name?                    string
|    | | +--rw tunnel-policy?                  string {feature-list:HAVE_SERVICE_MAPPING}?
```

```
|    | | +--rw tunnel-identifier?              uint32
|    | | +--rw enable-manual-pseudowire?       empty
|    | | +--rw enable-flow-label?              empty
|    | | +--rw flow-label-direction?           ipi-vpws-types:vpws_mpls_flow_label_direction_t
|    | | +--rw enable-static-flow-label?       empty
|    | | +--rw enable-interface-parameter-tlv? empty
|    | | +--rw control-channel-type?           ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    | | +--rw control-verification-type?      ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    | +--ro state
|    |    +--ro enable-tagged-mode              empty
|    |    +--ro group-name?                     string
|    |    +--ro group-identifier?               uint32
|    |    +--ro enable-control-word?            empty
|    |    +--ro tunnel-name?                    string
|    |    +--ro tunnel-policy?                  string {feature-list:HAVE_SERVICE_MAPPING}?
|    |    +--ro tunnel-identifier?              uint32
|    |    +--ro enable-manual-pseudowire?       empty
|    |    +--ro enable-flow-label?              empty
|    |    +--ro flow-label-direction?           ipi-vpws-types:vpws_mpls_flow_label_direction_t
|    |    +--ro enable-static-flow-label?       empty
|    |    +--ro enable-interface-parameter-tlv? empty
|    |    +--ro control-channel-type?           ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    |    +--ro control-verification-type?      ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|    +--rw raw
|      +--rw config!
|      | +--rw enable-raw-mode                  empty
|      | +--rw group-name?                      string
|      | +--rw group-identifier?                uint32
|      | +--rw enable-control-word?             empty
|      | +--rw tunnel-name?                     string
|      | +--rw tunnel-policy?                   string {feature-list:HAVE_SERVICE_MAPPING}?
|      | +--rw tunnel-identifier?               uint32
|      | +--rw enable-manual-pseudowire?        empty
```


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```
|       | +--rw control-channel-type?            ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|       | +--rw control-verification-type?       ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|       | +--rw enable-flow-label?               empty
|       | +--rw flow-label-direction?            ipi-vpws-types:vpws_mpls_flow_label_direction_t
|       | +--rw enable-static-flow-label?        empty
|       | +--rw enable-interface-parameter-tlv?  empty
|       +--ro state
|          +--ro enable-raw-mode                 empty
|          +--ro group-name?                     string
|          +--ro group-identifier?               uint32
|          +--ro enable-control-word?            empty
|          +--ro tunnel-name?                    string
|          +--ro tunnel-policy?                  string {feature-list:HAVE_SERVICE_MAPPING}?
|          +--ro tunnel-identifier?              uint32
|          +--ro enable-manual-pseudowire?       empty
|          +--ro enable-flow-label?              empty
|          +--ro flow-label-direction?           ipi-vpws-types:vpws_mpls_flow_label_direction_t
|          +--ro enable-static-flow-label?       empty
|          +--ro enable-interface-parameter-tlv? empty
|          +--ro control-channel-type?           ipi-vpws-types:vpws_mpls_vccv_cc_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
|          +--ro control-verification-type?      ipi-vpws-types:vpws_mpls_vccv_cv_type_t {feature-
list:HAVE_VCCV,feature-list:HAVE_CUSTOM1_MPLS_BFD}?
+--ro access-interface-counters* [interface-name] {feature-list:HAVE_MPLS_STATS}?
|  +--ro interface-name    -> ../state/interface-name
|  +--ro state
|     +--ro interface-name?          -> /ipi-interface:interfaces/interface/name
|     +--ro pseudowire-identifier?   uint32
|     +--ro service-template-name?   string
|     +--ro in-packets?              uint64
|     +--ro in-bytes?                uint64
|     +--ro out-packets?             uint64
|     +--ro out-bytes?               uint64
+--ro network-interface-counters* [peer-address] {feature-list:HAVE_MPLS_STATS}?
   +--ro peer-address    -> ../state/peer-address
   +--ro state
```

```
        +--ro peer-address?           inet:ipv4-address
        +--ro pseudowire-identifier?  uint32
        +--ro interface-name?         -> /ipi-interface:interfaces/interface/name
        +--ro in-packets?             uint64
        +--ro in-bytes?               uint64
        +--ro out-packets?            uint64
        +--ro out-bytes?              uint64

rpcs:
  +---x pseudowire-trap-configuration {feature-list:HAVE_SNMP}?
  |  +---w input
  |     +---w status-notification       boolean
  |     +---w delete-notification       boolean
  |     +---w configure-notification    cml-data-types:cml_enable_disable_t
  +---x clear-mpls-l2-circuit-statistics {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_MPLS_VC}?
  |  +---w input
  |     +---w pseudowire-name    string
  +---x clear-mpls-l2-circuit-port-statistics {feature-list:HAVE_MPLS_STATS,feature-list:HAVE_MPLS_VC}?
  |  +---w input
  |     +---w port-type              ipi-vpws-types:vpws_mpls_port_type_t
  |     +---w port-pseudowire-name    string
  +---x pseudowire-manual-switchover {feature-list:HAVE_MPLS_VC}?
     +---w input
        +---w primary-pseudowire      string
        +---w secondary-pseudowire    string

notifications:
  +---n mpls-pseudowire-up
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro pseudowire-identifier?  uint32
  |  +--ro peer-address?          ipi-vpws-types:vpws_ip_addr_t
  |  +--ro instance-type?         ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?         string
  |  +--ro pseudowire-state?      ipi-vpws-types:vpws_mpls_pw_state_t
  +---n mpls-pseudowire-down
```


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```
  |  +--ro severity?               cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?             cml-data-types:cml_notif_class_t
  |  +--ro pseudowire-identifier?   uint32
  |  +--ro peer-address?           ipi-vpws-types:vpws_ip_addr_t
  |  +--ro instance-type?          ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?          string
  |  +--ro pseudowire-state?       ipi-vpws-types:vpws_mpls_pw_state_t
  +---n mpls-pseudowire-deleted
     +--ro severity?               cml-data-types:cml_notif_severity_t
     +--ro eventClass?             cml-data-types:cml_notif_class_t
     +--ro pseudowire-identifier?   uint32
     +--ro peer-address?           ipi-vpws-types:vpws_ip_addr_t
     +--ro instance-type?          ipi-network-instance-types:net_inst_type_t
     +--ro instance-name?          string
     +--ro pseudowire-state?       ipi-vpws-types:vpws_mpls_pw_state_t
```

ipi-lacp

```
 +--rw lacp
    +--rw global
    |  +--rw config
    |  |  +--rw system-priority?   uint32
    |  +--ro state
    |     +--ro system-priority?   uint32
    |     +--ro system-id?         cml-data-types:cml_mac_addr_t
    +--rw debug
    |  +--rw config
    |  |  +--rw options?   ipi-lacp-types:lacp_debug_t
    |  +--ro state
    |     +--ro options?                ipi-lacp-types:lacp_debug_t
    |     +--ro terminal-debug-status?   ipi-lacp-types:lacp_debug_t
    +--ro aggregators
    |  +--ro aggregator* [agg-name]
    |     +--ro agg-name    -> ../state/agg-name
    |     +--ro state
```

```
|    | +--ro agg-name?               string
|    | +--ro interface-index?        uint32
|    | +--ro type?                   ipi-lag-types:lag_aggregator_type_t
|    | +--ro mac-address?            cml-data-types:cml_mac_addr_t
|    | +--ro rx-link-count?          yang:counter32
|    | +--ro tx-link-count?          yang:counter32
|    | +--ro individual-aggregator?  ipi-lacp-types:lacp_individual_aggregator_t
|    | +--ro aggregator-ready?       empty
|    +--ro actor
|    | +--ro state
|    |    +--ro admin-key?        uint16
|    |    +--ro oper-key?         uint16
|    |    +--ro system-priority?  uint16
|    |    +--ro system-id?        cml-data-types:cml_mac_addr_t
|    +--ro partner
|    | +--ro state
|    |    +--ro oper-key?         uint16
|    |    +--ro system-priority?  uint16
|    |    +--ro system-id?        cml-data-types:cml_mac_addr_t
|    +--ro members
|      +--ro member* [link-name]
|         +--ro link-name    -> ../state/link-name
|         +--ro state
|         | +--ro link-name?                  string
|         | +--ro sync-state?                 ipi-lacp-types:lacp_synchronization_type_t
|         | +--ro receive-state?              ipi-lacp-types:lacp_rcv_state_t
|         | +--ro periodic-transmission-state?  ipi-lacp-types:lacp_periodic_tx_state_t
|         | +--ro mux-machine-state?          ipi-lacp-types:lacp_mux_state_t
|         | +--ro admin-key?                  uint16
|         | +--ro counters
|         |    +--ro lacp-out-pkts?           yang:counter32
|         |    +--ro lacp-in-pkts?            yang:counter32
|         |    +--ro lacp-in-marker-pdu?      yang:counter32
|         |    +--ro lacp-out-marker-pdu?     yang:counter32
|         |    +--ro lacp-tx-errors?          yang:counter32
|         |    +--ro lacp-rx-errors?          yang:counter32
```


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```
|       |    +--ro lacp-in-marker-pdu-response?    yang:counter32
|       |    +--ro lacp-out-marker-pdu-response?   yang:counter32
|       +--ro actor
|       | +--ro state
|       |    +--ro operational
|       |    | +--ro activity?         ipi-lacp-types:lacp_activity_type_t
|       |    | +--ro timeout?          ipi-lacp-types:lacp_timeout_type_t
|       |    | +--ro aggregatable?     boolean
|       |    | +--ro synchronization?  ipi-lacp-types:lacp_synchronization_type_t
|       |    | +--ro collecting?       boolean
|       |    | +--ro distributing?     boolean
|       |    | +--ro defaulted?        boolean
|       |    | +--ro expired?          boolean
|       |    | +--ro port-key?         uint16
|       |    +--ro admin
|       |    | +--ro activity?         ipi-lacp-types:lacp_activity_type_t
|       |    | +--ro timeout?          ipi-lacp-types:lacp_timeout_type_t
|       |    | +--ro aggregatable?     boolean
|       |    | +--ro synchronization?  ipi-lacp-types:lacp_synchronization_type_t
|       |    | +--ro collecting?       boolean
|       |    | +--ro distributing?     boolean
|       |    | +--ro defaulted?        boolean
|       |    | +--ro expired?          boolean
|       |    | +--ro port-key?         uint16
|       |    +--ro system-id?        cml-data-types:cml_mac_addr_t
|       |    +--ro system-priority?  uint16
|       |    +--ro port-number?      uint16
|       |    +--ro port-priority?    uint16
|       +--ro partner
|         +--ro state
|            +--ro operational
|            | +--ro activity?         ipi-lacp-types:lacp_activity_type_t
|            | +--ro timeout?          ipi-lacp-types:lacp_timeout_type_t
|            | +--ro aggregatable?     boolean
|            | +--ro synchronization?  ipi-lacp-types:lacp_synchronization_type_t
|            | +--ro collecting?       boolean
```

```
|              | +--ro distributing?      boolean
|              | +--ro defaulted?         boolean
|              | +--ro expired?           boolean
|              | +--ro system-id?         cml-data-types:cml_mac_addr_t
|              | +--ro system-priority?   uint16
|              | +--ro port-number?       uint16
|              | +--ro port-priority?     uint16
|              | +--ro port-key?          uint16
|              +--ro admin
|                +--ro activity?          ipi-lacp-types:lacp_activity_type_t
|                +--ro timeout?           ipi-lacp-types:lacp_timeout_type_t
|                +--ro aggregatable?      boolean
|                +--ro synchronization?   ipi-lacp-types:lacp_synchronization_type_t
|                +--ro collecting?        boolean
|                +--ro distributing?      boolean
|                +--ro defaulted?         boolean
|                +--ro expired?           boolean
|                +--ro system-id?         cml-data-types:cml_mac_addr_t
|                +--ro system-priority?   uint16
|                +--ro port-number?       uint16
|                +--ro port-priority?     uint16
+--rw interfaces
  +--rw interface* [name]
    +--rw name                 -> ../config/name
    +--rw config
    | +--rw name?   -> /ipi-interface:interfaces/interface/name
    +--ro state
    | +--ro name?   -> /ipi-interface:interfaces/interface/name
    +--rw member-aggregation
    | +--rw config
    | | +--rw port-priority?   uint32
    | | +--rw timeout?         ipi-lacp-types:lacp_timeout_type_t
    | | +--rw bridge-type?     ipi-lacp-types:lacp_bridgetype_t
    | | +--rw force-up?        empty
    | | +--rw agg-force-up?    empty
    | +--ro state
```


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```
        |     +--ro port-priority?   uint32
        |     +--ro timeout?         ipi-lacp-types:lacp_timeout_type_t
        |     +--ro bridge-type?     ipi-lacp-types:lacp_bridgetype_t
        |     +--ro force-up?        empty
        |     +--ro agg-force-up?    empty
        +--rw aggregator
          +--rw config
          +--ro state

rpcs:
  +---x lacp-snmp-restart {feature-list:HAVE_SNMP}?
  +---x clear-lacp-counters {feature-list:HAVE_LAGD}?
  |  +---w input
  |     +---w aggregate-id    uint16
  +---x lacp-terminal-debug-on {feature-list:HAVE_LAGD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-lacp-types:lacp_debug_t
  +---x lacp-terminal-debug-off {feature-list:HAVE_LAGD}?
     +---w input
        +---w terminal-debug-options    ipi-lacp-types:lacp_debug_t
```

ipi-ldp

```
+--rw ldp
   +--rw global
   |  +--rw config!
   |  |  +--rw ldp-instance                    ipi-ldp-types:ldp_instance_t
   |  |  +--rw router-identifier?              inet:ipv4-address
   |  |  +--rw pseudowire-status-tlv?          empty {feature-list:HAVE_MPLS_VC}?
   |  |  +--rw rlfa-ilm-optimization?          empty
```

```
| | +--rw entropy-label-capability-enable?      empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--rw multicast-hello-disable?              empty
| | +--rw advertise-label-for-default-route?    empty
| | +--rw import-bgp-routes?                    empty
| | +--rw ldp-optimization?                     empty
| | +--rw explicit-null?                        empty
| | +--rw global-merge?                         ipi-ldp-types:ldp_merge_capable_t
| | +--rw propagate-release?                    empty
| | +--rw fast-reroute?                         empty {feature-list:HAVE_LDP_LFA}?
| | +--rw prefer-tunnel-in-tunnel?              empty {feature-list:HAVE_LDP_TUNNELING}?
| | +--rw ignore-mac-withdraw-bad-pdu-length?   empty {feature-list:HAVE_MPLS_VC}?
| | +--rw rlfa-tunnels?                         uint16
| | +--rw delay-ftn-delete?                     empty
| | +--rw ftn-del-timer?                        uint8
| +--ro state
| | +--ro ldp-instance                          ipi-ldp-types:ldp_instance_t
| | +--ro router-identifier?                    inet:ipv4-address
| | +--ro pseudowire-status-tlv?                empty {feature-list:HAVE_MPLS_VC}?
| | +--ro rlfa-ilm-optimization?                empty
| | +--ro entropy-label-capability-enable?      empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--ro multicast-hello-disable?              empty
| | +--ro advertise-label-for-default-route?    empty
| | +--ro import-bgp-routes?                    empty
| | +--ro ldp-optimization?                     empty
| | +--ro explicit-null?                        empty
| | +--ro global-merge?                         ipi-ldp-types:ldp_merge_capable_t
| | +--ro propagate-release?                    empty
| | +--ro fast-reroute?                         empty {feature-list:HAVE_LDP_LFA}?
| | +--ro prefer-tunnel-in-tunnel?              empty {feature-list:HAVE_LDP_TUNNELING}?
| | +--ro ignore-mac-withdraw-bad-pdu-length?   empty {feature-list:HAVE_MPLS_VC}?
| | +--ro rlfa-tunnels?                         uint16
| | +--ro delay-ftn-delete?                     empty
| | +--ro ftn-del-timer?                        uint8
| +--rw auto-target-session {feature-list:HAVE_LDP_LFA}?
| | +--rw config
| | | +--rw auto-targeted-session?   empty {feature-list:HAVE_LDP_LFA}?
```


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```
| | +--ro state
| |    +--ro auto-targeted-session?   empty {feature-list:HAVE_LDP_LFA}?
| +--rw label-management
| | +--rw config
| | | +--rw control-mode?         ipi-ldp-types:ldp_controlmode_t
| | | +--rw retention-mode?       ipi-ldp-types:ldp_retention_mode_t
| | | +--rw advertisement-mode?   ipi-ldp-types:ldp_advertise_mode_t
| | +--ro state
| |    +--ro control-mode?         ipi-ldp-types:ldp_controlmode_t
| |    +--ro retention-mode?       ipi-ldp-types:ldp_retention_mode_t
| |    +--ro advertisement-mode?   ipi-ldp-types:ldp_advertise_mode_t
| +--rw timers
| | +--rw config
| | | +--rw hello-interval?       uint16
| | | +--rw hello-holdtime?       uint16
| | | +--rw keepalive-timeout?    uint16
| | | +--rw keepalive-interval?   uint16
| | +--ro state
| |    +--ro hello-interval?       uint16
| |    +--ro hello-holdtime?       uint16
| |    +--ro keepalive-timeout?    uint16
| |    +--ro keepalive-interval?   uint16
| +--rw label-request-policy
| | +--rw config
| | | +--rw request-retry-timeout?       uint16
| | | +--rw request-retry?               empty
| | | +--rw label-request-policy-ipv4?   string
| | +--ro state
| |    +--ro request-retry-timeout?       uint16
| |    +--ro request-retry?               empty
| |    +--ro label-request-policy-ipv4?   string
| +--rw loop-detection-policy
| | +--rw config!
| | | +--rw loop-detection-enable    empty
| | | +--rw path-vector-limit?       uint32
| | | +--rw hop-count-limit?         uint32
```

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```
| | +--ro state
| |    +--ro loop-detection-enable    empty
| |    +--ro path-vector-limit?       uint32
| |    +--ro hop-count-limit?         uint32
| +--rw session-protection {feature-list:HAVE_LDP_SESS_PROT}?
|    +--rw config!
|    | +--rw session-protection-enable              empty
|    | +--rw duration?                              ipi-ldp-types:ldp_sess_prot_duration_t
|    | +--rw session-protection-prefix-list-name?   ipi-ldp-types:ldp_sess_prot_pfx_lst_t
|    +--ro state
|       +--ro session-protection-enable             empty
|       +--ro duration?                             ipi-ldp-types:ldp_sess_prot_duration_t
|       +--ro session-protection-prefix-list-name?  ipi-ldp-types:ldp_sess_prot_pfx_lst_t
+--rw debug
| +--rw config
| | +--rw ldp?   ipi-ldp-types:ldp_debug_t
| | +--rw dev?   ipi-ldp-types:ldp_debug_option_t
| +--ro state
|    +--ro ldp?                    ipi-ldp-types:ldp_debug_t
|    +--ro dev?                    ipi-ldp-types:ldp_debug_option_t
|    +--ro terminal-debug-options?  ipi-ldp-types:ldp_debug_t
+--rw graceful-restart {feature-list:HAVE_RESTART}?
| +--rw config!
| | +--rw enable                   ipi-ldp-types:ldp_gr_mode_t
| | +--rw neighbor-liveness-time?  uint16
| | +--rw max-recovery-time?       uint16
| +--ro state
|    +--ro enable                   ipi-ldp-types:ldp_gr_mode_t
|    +--ro neighbor-liveness-time?  uint16
|    +--ro max-recovery-time?       uint16
|    +--ro restart-count?           uint32
+--ro ldp-tunnels {feature-list:HAVE_LDP_TUNNELING}?
| +--ro ldp-tunnel* [tunnel-endpoint]
|    +--ro tunnel-endpoint    -> ../state/tunnel-endpoint
|    +--ro state
|    | +--ro tunnel-endpoint?   cml-data-types:cml_ipv4_addr_prefix_t
```


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```
|    +--ro tunnel-lists
|      +--ro tunnel-list* [tunnel-name]
|        +--ro tunnel-name    -> ../state/tunnel-name
|        +--ro state
|        | +--ro tunnel-name?   string
|        | +--ro cost?          uint32
|        | +--ro owner?         string
|        | +--ro status?        string
|        | +--ro fec-count?     uint8
|        +--ro fec-lists
|          +--ro fec-list* [fec-prefix]
|            +--ro fec-prefix    -> ../state/fec-prefix
|            +--ro state
|              +--ro fec-prefix?      cml-data-types:cml_ipv4_addr_prefix_t
|              +--ro upstream-peer?   inet:ipv4-address
|              +--ro in-label?        string
|              +--ro out-label?       string
+--rw lfa {feature-list:HAVE_LDP_LFA}?
| +--ro fecs
|    +--ro fec* [prefix-address]
|      +--ro prefix-address    -> ../state/prefix-address
|      +--ro state
|      | +--ro prefix-address?   inet:ip-address
|      +--ro primary-paths
|        +--ro primary-path* [nexthop-address nexthop-interface-name]
|          +--ro nexthop-address           -> ../state/nexthop-address
|          +--ro nexthop-interface-name    -> ../state/nexthop-interface-name
|          +--ro state
|          | +--ro nexthop-address?         inet:ip-address
|          | +--ro nexthop-interface-name?   string
|          +--ro backup-path
|            +--ro state
|              +--ro backup-address?         inet:ip-address
|              +--ro backup-interface-name?   string
+--rw transport-addresses
| +--rw transport-address* [label-space-identifier]
```

```
|    +--rw label-space-identifier    -> ../config/label-space-identifier
|    +--rw config
|    | +--rw label-space-identifier?   ipi-ldp-types:ldp_label_space_identifier_t
|    | +--rw transport-address-ipv4?   inet:ipv4-address
|    +--ro state
|      +--ro label-space-identifier?   ipi-ldp-types:ldp_label_space_identifier_t
|      +--ro transport-address-ipv4?   inet:ipv4-address
+--rw peer-authentication
| +--rw peer-authentication-lists
| | +--rw peer-authentication-list* [peer-address] {feature-list:HAVE_TCP_MD5SIG}?
| |    +--rw peer-address    -> ../config/peer-address
| |    +--rw config
| |    | +--rw peer-address?    ipi-ldp-types:ldp_auth_neighbor_type_t
| |    | +--rw password-type    ipi-ldp-types:ldp_md5_encrypt_password_t
| |    | +--rw password         ipi-ldp-types:ldp_md5_password_t
| |    +--ro state
| |      +--ro peer-address?    ipi-ldp-types:ldp_auth_neighbor_type_t
| |      +--ro password-type    ipi-ldp-types:ldp_md5_encrypt_password_t
| |      +--ro password         ipi-ldp-types:ldp_md5_password_t
| +--rw authentication-exclusions
| | +--rw config
| | | +--rw peer-address*   inet:ipv4-address
| | +--ro state
| |    +--ro peer-address*   inet:ipv4-address
| +--rw authentication-groups
|    +--rw authentication-group* [group-name]
|      +--rw group-name                    -> ../config/group-name
|      +--rw config
|      | +--rw group-name?    string
|      | +--rw prefix-list?   string
|      +--ro state
|      | +--ro group-name?    string
|      | +--ro prefix-list?   string
|      +--rw authentication-group-passwords
|        +--rw authentication-group-password* [auth]
|          +--rw auth      -> ../config/auth
```


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```
|            +--rw config
|            | +--rw auth?           ipi-ldp-types:ldp_auth_group_type_t
|            | +--rw password-type    ipi-ldp-types:ldp_md5_encrypt_password_t
|            | +--rw password         ipi-ldp-types:ldp_md5_password_t
|            +--ro state
|              +--ro auth?           ipi-ldp-types:ldp_auth_group_type_t
|              +--ro password-type    ipi-ldp-types:ldp_md5_encrypt_password_t
|              +--ro password         ipi-ldp-types:ldp_md5_password_t
+--rw label-mapping-access-lists
| +--rw label-mapping-access-list* [peer-access-control-list-name prefix-access-control-list-name]
|    +--rw peer-access-control-list-name      -> ../config/peer-access-control-list-name
|    +--rw prefix-access-control-list-name    -> ../config/prefix-access-control-list-name
|    +--rw config
|    | +--rw prefix-access-control-list-name?   string
|    | +--rw peer-access-control-list-name?     string
|    +--ro state
|    | +--ro prefix-access-control-list-name?   string
|    | +--ro peer-access-control-list-name?     string
|    | +--ro advertisement-type?                ipi-ldp-types:ldp_advertisement_type_t
|    +--ro statistics
|      +--ro state
|        +--ro label-deny-mapping?   uint32
|        +--ro label-deny-request?   uint32
+--rw tcp-mss-lists
| +--rw tcp-mss-list* [peer-address]
|    +--rw peer-address    -> ../config/peer-address
|    +--rw config
|    | +--rw peer-address?    ipi-ldp-types:ldp_neighbor_type_t
|    | +--rw tcp-mss-range    uint32
|    +--ro state
|      +--ro peer-address?    ipi-ldp-types:ldp_neighbor_type_t
|      +--ro tcp-mss-range    uint32
+--rw received-label-control-lists
| +--rw received-label-control-list* [peer-control-list-name prefix-control-list-name]
|    +--rw peer-control-list-name      -> ../config/peer-control-list-name
|    +--rw prefix-control-list-name    -> ../config/prefix-control-list-name
```

```
|    +--rw config
|    |  +--rw prefix-control-list-name?   string
|    |  +--rw peer-control-list-name?     string
|    +--ro state
|       +--ro prefix-control-list-name?   string
|       +--ro peer-control-list-name?     string
+--rw interfaces
|  +--rw interface* [name]
|    +--rw name               -> ../config/name
|    +--rw config
|    |  +--rw name?                      -> /ipi-interface:interfaces/interface/name
|    |  +--rw enable-ldp-ipv4?              empty
|    |  +--rw multicast-hello-disable?      empty
|    |  +--rw maximum-pdu-length?           uint32
|    |  +--rw ldp-igp-sync-delay-interval?  uint32
|    +--ro state
|    |  +--ro name?                      -> /ipi-interface:interfaces/interface/name
|    |  +--ro enable-ldp-ipv4?              empty
|    |  +--ro multicast-hello-disable?      empty
|    |  +--ro maximum-pdu-length?           uint32
|    |  +--ro ldp-igp-sync-delay-interval?  uint32
|    |  +--ro primary-address-ipv4?         string
|    |  +--ro primary-address-ipv6?         string
|    |  +--ro counters
|    |     +--ro packets
|    |     |  +--ro received
|    |     |  |  +--ro notification?      yang:counter32
|    |     |  |  +--ro hello?             yang:counter32
|    |     |  |  +--ro initialization?    yang:counter32
|    |     |  |  +--ro keepalive?         yang:counter32
|    |     |  |  +--ro address-message?   yang:counter32
|    |     |  |  +--ro address-withdraw?  yang:counter32
|    |     |  |  +--ro label-mapping?     yang:counter32
|    |     |  |  +--ro label-request?     yang:counter32
|    |     |  |  +--ro label-withdraw?    yang:counter32
|    |     |  |  +--ro label-release?     yang:counter32
```


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```
|    |    | |  +--ro request-abort?      yang:counter32
|    |    |  +--ro sent
|    |    |     +--ro notification?       yang:counter32
|    |    |     +--ro hello?              yang:counter32
|    |    |     +--ro initialization?     yang:counter32
|    |    |     +--ro keepalive?          yang:counter32
|    |    |     +--ro address-message?    yang:counter32
|    |    |     +--ro address-withdraw?   yang:counter32
|    |    |     +--ro label-mapping?      yang:counter32
|    |    |     +--ro label-request?      yang:counter32
|    |    |     +--ro label-withdraw?     yang:counter32
|    |    |     +--ro label-release?      yang:counter32
|    |    |     +--ro request-abort?      yang:counter32
|    |    +--ro events
|    |       +--ro ldp-shutdown-notification-received?          yang:counter32
|    |       +--ro ldp-shutdown-notification-sent?              yang:counter32
|    |       +--ro ldp-sessions-attempted?                      yang:counter32
|    |       +--ro ldp-session-rejected-no-hello-errors?        yang:counter32
|    |       +--ro ldp-session-rejected-advertisement-errors?   yang:counter32
|    |       +--ro ldp-session-rejected-maximum-pdu-errors?     yang:counter32
|    |       +--ro ldp-session-rejected-label-range-errors?     yang:counter32
|    |       +--ro ldp-bad-ldp-identifier-errors?               yang:counter32
|    |       +--ro ldp-bad-pdu-length-errors?                   yang:counter32
|    |       +--ro ldp-bad-message-length-errors?               yang:counter32
|    |       +--ro ldp-bad-tlv-length-errors?                   yang:counter32
|    |       +--ro ldp-malformed-tlv-value-errors?              yang:counter32
|    |       +--ro ldp-keepalive-timer-expired-errors?          yang:counter32
|    +--rw hello-timers
|    |  +--rw config
|    |  |  +--rw hello-interval?   uint16
|    |  |  +--rw hello-holdtime?   uint16
|    |  +--ro state
|    |     +--ro hello-interval?   uint16
|    |     +--ro hello-holdtime?   uint16
|    +--rw session-timers
|    |  +--rw config
```

```
|    | | +--rw keepalive-timeout?    uint16
|    | | +--rw keepalive-interval?   uint16
|    | +--ro state
|    |    +--ro keepalive-timeout?    uint16
|    |    +--ro keepalive-interval?   uint16
|    +--rw label-management
|       +--rw config
|       | +--rw interface-advertisement-mode?   ipi-ldp-types:ldp_advertise_mode_t
|       | +--rw interface-retention-mode?       ipi-ldp-types:ldp_retention_mode_t
|       +--ro state
|          +--ro interface-advertisement-mode?   ipi-ldp-types:ldp_advertise_mode_t
|          +--ro interface-retention-mode?       ipi-ldp-types:ldp_retention_mode_t
|          +--ro label-merge-capability?         ipi-ldp-types:ldp_label_merge_capability_t
|          +--ro ldp-identifier?                 string
+--ro l2vpn
| +--ro vpls-list* [vpls-identifier] {feature-list:HAVE_VPLS}?
| | +--ro vpls-identifier         -> ../state/vpls-identifier
| | +--ro state
| | | +--ro vpls-identifier?   uint32
| | | +--ro mesh-vc-count?     uint32
| | +--ro virtual-circuit-list* [neighbor-address]
| |    +--ro neighbor-address    -> ../state/neighbor-address
| |    +--ro state
| |       +--ro virtual-circuit-identifier?       uint32
| |       +--ro neighbor-address?                 inet:ipv4-address
| |       +--ro virtual-circuit-state?            string
| |       +--ro local-pw-status-capability?       uint32
| |       +--ro remote-pw-status-capability?      uint32
| |       +--ro current-pw-status-tlv?            uint32
| |       +--ro local-pseudowire-status?          string
| |       +--ro remote-pseudowire-status?         string
| |       +--ro virtual-circuit-label-sent?       uint32
| |       +--ro virtual-circuit-label-received?   uint32
| +--ro state
| | +--ro counters {feature-list:HAVE_VPLS}?
| |    +--ro total-vpls-instances?                yang:counter32
```


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```
| |     +--ro total-virtual-circuit-instances?      yang:counter32
| |     +--ro active-virtual-circuit-instances?     yang:counter32
| |     +--ro inactive-virtual-circuit-instances?   yang:counter32
| +--ro virtual-circuit-list* [virtual-circuit-identifier] {feature-list:HAVE_MPLS_VC}?
|    +--ro virtual-circuit-identifier    -> ../state/virtual-circuit-identifier
|    +--ro state
|       +--ro virtual-circuit-identifier?       uint32
|       +--ro neighbor-address?                 inet:ipv4-address
|       +--ro virtual-circuit-state?            string
|       +--ro local-pw-status-capability?       uint32
|       +--ro remote-pw-status-capability?      uint32
|       +--ro current-pw-status-tlv?            uint32
|       +--ro local-pseudowire-status?          string
|       +--ro remote-pseudowire-status?         string
|       +--ro virtual-circuit-label-sent?       uint32
|       +--ro virtual-circuit-label-received?   uint32
+--rw targeted-peers
| +--rw global-timers
| | +--rw config
| | | +--rw targeted-global-hello-interval?   uint16
| | | +--rw targeted-global-hello-holdtime?   uint16
| | +--ro state
| | |   +--ro targeted-global-hello-interval?   uint16
| | |   +--ro targeted-global-hello-holdtime?   uint16
| +--rw targeted-peer* [target-address]
|    +--rw target-address    -> ../config/target-address
|    +--rw config
|    | +--rw target-address?   ipi-ldp-types:ldp_ip_addr_t
|    | +--rw tunnel?           empty
|    | +--rw hello-interval?   uint16
|    | +--rw hello-holdtime?   uint16
|    +--ro state
|       +--ro target-address?   ipi-ldp-types:ldp_ip_addr_t
|       +--ro tunnel?           empty
|       +--ro hello-interval?   uint16
|       +--ro hello-holdtime?   uint16
```

```
|       +--ro counters
|         +--ro packets
|         | +--ro received
|         | | +--ro notification?       yang:counter32
|         | | +--ro hello?              yang:counter32
|         | | +--ro initialization?     yang:counter32
|         | | +--ro keepalive?          yang:counter32
|         | | +--ro address-message?    yang:counter32
|         | | +--ro address-withdraw?   yang:counter32
|         | | +--ro label-mapping?      yang:counter32
|         | | +--ro label-request?      yang:counter32
|         | | +--ro label-withdraw?     yang:counter32
|         | | +--ro label-release?      yang:counter32
|         | | +--ro request-abort?      yang:counter32
|         | +--ro sent
|         |    +--ro notification?       yang:counter32
|         |    +--ro hello?              yang:counter32
|         |    +--ro initialization?     yang:counter32
|         |    +--ro keepalive?          yang:counter32
|         |    +--ro address-message?    yang:counter32
|         |    +--ro address-withdraw?   yang:counter32
|         |    +--ro label-mapping?      yang:counter32
|         |    +--ro label-request?      yang:counter32
|         |    +--ro label-withdraw?     yang:counter32
|         |    +--ro label-release?      yang:counter32
|         |    +--ro request-abort?      yang:counter32
|         +--ro events
|            +--ro ldp-shutdown-notification-received?          yang:counter32
|            +--ro ldp-shutdown-notification-sent?              yang:counter32
|            +--ro ldp-sessions-attempted?                     yang:counter32
|            +--ro ldp-session-rejected-no-hello-errors?        yang:counter32
|            +--ro ldp-session-rejected-advertisement-errors?   yang:counter32
|            +--ro ldp-session-rejected-maximum-pdu-errors?     yang:counter32
|            +--ro ldp-session-rejected-label-range-errors?     yang:counter32
|            +--ro ldp-bad-ldp-identifier-errors?               yang:counter32
|            +--ro ldp-bad-pdu-length-errors?                   yang:counter32
```


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```
|            +--ro ldp-bad-message-length-errors?             yang:counter32
|            +--ro ldp-bad-tlv-length-errors?                 yang:counter32
|            +--ro ldp-malformed-tlv-value-errors?            yang:counter32
|            +--ro ldp-keepalive-timer-expired-errors?        yang:counter32
+--ro peers
  +--ro peer* [peer-address]
    +--ro peer-address          -> ../state/peer-address
    +--ro adjacency-list* [adjacency-prefix]
    | +--ro adjacency-prefix    -> ../state/adjacency-prefix
    | +--ro state
    |    +--ro adjacency-prefix?   inet:ipv4-address
    |    +--ro is-targeted-peer?   boolean
    |    +--ro name?               -> /ipi-interface:interfaces/interface/name
    |    +--ro local-address?      inet:ipv4-address
    +--ro received-label-list* [fec-prefix]
    | +--ro fec-prefix    -> ../state/fec-prefix
    | +--ro state
    |    +--ro fec-prefix?   cml-data-types:cml_ipv4_addr_prefix_t
    |    +--ro label?        string
    +--ro sent-label-list* [fec-prefix]
    | +--ro fec-prefix    -> ../state/fec-prefix
    | +--ro state
    |    +--ro fec-prefix?   cml-data-types:cml_ipv4_addr_prefix_t
    |    +--ro label?        string
    +--ro state
      +--ro peer-address?                      inet:ipv4-address
      +--ro ldp-identifier?                    string
      +--ro label-space?                       uint16
      +--ro keepalive-timeout?                 uint32
      +--ro session-up-time?                   string
      +--ro session-state?                     ipi-ldp-types:ldp_session_state_t
      +--ro session-role?                      ipi-ldp-types:ldp_session_role_t
      +--ro advertisement-mode?                ipi-ldp-types:ldp_advertise_mode_t
      +--ro retention-mode?                    ipi-ldp-types:ldp_retention_mode_t
      +--ro tcp-established?                   ipi-ldp-types:ldp_tcp_status_t
      +--ro ldp-interface-name?                string
```

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```
        +--ro discontinuity-time?                    uint32
        +--ro unknown-message-type-errors?           uint32
        +--ro unknown-tlv-type-errors?               uint32
        +--ro initialization-session-threshold-limit?   uint32
        +--ro entity-path-vector-limit?              uint32
        +--ro peer-path-vector-limit?                uint32
        +--ro session-protection-status?             ipi-ldp-types:ldp_sess_prot_status_t {feature-
list:HAVE_LDP_SESS_PROT}?

  rpcs:
    +---x clear-ldp-statistics {feature-list:HAVE_LDPD}?
    +---x clear-ldp-statistics-advertise-labels {feature-list:HAVE_LDPD}?
    +---x clear-ldp-statistics-advertise-labels-prefix {feature-list:HAVE_LDPD}?
    |  +---w input
    |     +---w prefix    string
    +---x clear-ldp-statistics-advertise-labels-prefix-peer {feature-list:HAVE_LDPD}?
    |  +---w input
    |     +---w prefix    string
    |     +---w peer      string
    +---x clear-ldp-session-all {feature-list:HAVE_LDPD}?
    +---x clear-ldp-session-ipv4 {feature-list:HAVE_LDPD}?
    |  +---w input
    |     +---w addr    inet:ipv4-address
    +---x clear-ldp-adjacency-all {feature-list:HAVE_LDPD}?
    +---x clear-ldp-adjacency-ipv4 {feature-list:HAVE_LDPD}?
    |  +---w input
    |     +---w addr    inet:ipv4-address
    +---x snmp-restart-ldp {feature-list:HAVE_SNMP}?
    +---x ldp-terminal-debug-on {feature-list:HAVE_LDPD}?
    |  +---w input
    |     +---w terminal-debug-options    ipi-ldp-types:ldp_debug_t
    +---x ldp-terminal-debug-off {feature-list:HAVE_LDPD}?
    |  +---w input
    |     +---w terminal-debug-options    ipi-ldp-types:ldp_debug_t
    +---x restart-ldp-graceful {feature-list:HAVE_RESTART}?

  notifications:
```


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```
  +---n mpls-ldp-session-up
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro peer-address?                inet:ipv4-address
  |  +--ro session-state?               ipi-ldp-types:ldp_session_state_t
  |  +--ro discontinuity-time?          uint32
  |  +--ro unknown-message-type-errors?   uint32
  |  +--ro unknown-tlv-type-errors?       uint32
  +---n mpls-ldp-session-down
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro peer-address?                inet:ipv4-address
  |  +--ro session-state?               ipi-ldp-types:ldp_session_state_t
  |  +--ro discontinuity-time?          uint32
  |  +--ro unknown-message-type-errors?   uint32
  |  +--ro unknown-tlv-type-errors?       uint32
  +---n mpls-ldp-init-session-threshold-exceeded
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro peer-address?                      inet:ipv4-address
  |  +--ro initialization-session-threshold-limit?   uint32
  +---n mpls-ldp-path-vector-limit-mismatch
     +--ro severity?                  cml-data-types:cml_notif_severity_t
     +--ro eventClass?                cml-data-types:cml_notif_class_t
     +--ro peer-address?              inet:ipv4-address
     +--ro entity-path-vector-limit?   uint32
     +--ro peer-path-vector-limit?     uint32
```

ipi-lldpv2

```
  +--rw lldp
     +--rw global
     |  +--rw config
     |  |  +--rw enable?                empty
```

```
| | +--rw enable-tx-rx-only?       ipi-lldp-types:lldp_enable_rx_only_tx_only_t
| | +--rw notification-interval?   uint16 {feature-list:HAVE_SNMP}?
| +--ro state
| | +--ro enable?                      empty
| | +--ro enable-tx-rx-only?           ipi-lldp-types:lldp_enable_rx_only_tx_only_t
| | +--ro notification-interval?       uint16 {feature-list:HAVE_SNMP}?
| | +--ro system-capabilities-enabled?   cml-data-types:cml_line_t
| | +--ro host-name-information?       string
| | +--ro counters
| |    +--ro remote-inserts?   yang:counter32
| |    +--ro remote-deletes?   yang:counter32
| |    +--ro remote-drops?     yang:counter32
| |    +--ro remote-ageouts?   yang:counter32
| +--rw global-tlv-control
| | +--rw global-basic-management
| | | +--rw config
| | | | +--rw port-description?      empty
| | | | +--rw system-description?    empty
| | | | +--rw system-name?           empty
| | | | +--rw system-capabilities?   empty
| | | | +--rw management-address?    empty
| | | +--ro state
| | | |  +--ro port-description?      empty
| | | |  +--ro system-description?    empty
| | | |  +--ro system-name?           empty
| | | |  +--ro system-capabilities?   empty
| | | |  +--ro management-address?    empty
| | +--rw global-ieee-8021-org-specific
| | | +--rw config
| | | | +--rw port-vlan-id?           empty
| | | | +--rw port-protocol-vlan-id?   empty
| | | | +--rw vlan-name?              empty
| | | | +--rw protocol-identifier?     empty
| | | | +--rw vid-digest?             empty
| | | | +--rw management-vlan-id?      empty
| | | | +--rw link-aggregation?        empty
```


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```
| | | +--ro state
| | |    +--ro port-vlan-id?            empty
| | |    +--ro port-protocol-vlan-id?   empty
| | |    +--ro vlan-name?               empty
| | |    +--ro protocol-identifier?     empty
| | |    +--ro vid-digest?              empty
| | |    +--ro management-vlan-id?      empty
| | |    +--ro link-aggregation?        empty
| | +--rw global-ieee-8023-org-specific
| |    +--rw config
| |    |  +--rw mac-phy?        empty
| |    |  +--rw max-mtu-size?   empty
| |    +--ro state
| |       +--ro mac-phy?        empty
| |       +--ro max-mtu-size?   empty
| +--rw management-if
| | +--rw config
| | | +--rw locally-assigned-chassis-id?   string
| | +--ro state
| |    +--ro locally-assigned-chassis-id?   string
| +--rw transmit
| | +--rw config
| | | +--rw reinit-delay?                uint32
| | | +--rw message-tx-interval?         uint32
| | | +--rw message-tx-hold-multiplier?  uint32
| | | +--rw message-fast-tx?             uint32
| | | +--rw tx-credit-max?               uint32
| | | +--rw tx-fast-init?                uint32
| | +--ro state
| |    +--ro reinit-delay?                uint32
| |    +--ro message-tx-interval?         uint32
| |    +--ro message-tx-hold-multiplier?  uint32
| |    +--ro message-fast-tx?             uint32
| |    +--ro tx-credit-max?               uint32
| |    +--ro tx-fast-init?                uint32
| +--rw receive
```

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```
  | | +--rw config
  | | | +--rw neighbor-limit?   uint32
  | | | +--rw neighbor-timer?   uint32
  | | | +--rw port-mac?         cml-data-types:cml_mac_addr_t
  | | | +--rw port-timer?       uint32
  | | +--ro state
  | |   +--ro neighbor-limit?   uint32
  | |   +--ro neighbor-timer?   uint32
  | |   +--ro port-mac?         cml-data-types:cml_mac_addr_t
  | |   +--ro port-timer?       uint32
  | +--rw agent-tlv
  |   +--rw config
  |   | +--rw port-address?   ipi-lldp-types:lldp_mgmt_addr_t
  |   | +--rw chassis-id?     ipi-lldp-types:lldp_chassis_t
  |   | +--rw port-id?        ipi-lldp-types:lldp_port_t
  |   +--ro state
  |     +--ro port-address?   ipi-lldp-types:lldp_mgmt_addr_t
  |     +--ro chassis-id?     ipi-lldp-types:lldp_chassis_t
  |     +--ro port-id?        ipi-lldp-types:lldp_port_t
  +--rw debug
  | +--rw config
  | | +--rw options?   ipi-lldp-types:lldp_debug_t
  | +--ro state
  |   +--ro options?                ipi-lldp-types:lldp_debug_t
  |   +--ro terminal-debug-status?   ipi-lldp-types:lldp_debug_t
  +--rw interfaces
    +--rw interface* [name]
      +--rw name         -> ../config/name
      +--rw config
      | +--rw name?                -> /ipi-interface:interfaces/interface/name
      | +--rw disable-lldp-agent?   empty
      | +--rw agent-circuit-id?     string
      | +--rw med-device-type?      ipi-lldp-types:lldp_meddev_t
      | +--rw local-name?           string
      +--ro state
      | +--ro name?                -> /ipi-interface:interfaces/interface/name
```


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```
|  +--ro disable-lldp-agent?   empty
|  +--ro agent-circuit-id?     string
|  +--ro med-device-type?      ipi-lldp-types:lldp_meddev_t
|  +--ro local-name?           string
+--ro neighbors
|  +--ro agent* [agent-type]
|     +--ro agent-type    ipi-lldp-types:lldp_agent_t
|     +--ro neighbor* [mac-address]
|        +--ro mac-address         -> ../state/mac-address
|        +--ro state
|        |  +--ro mac-address?                  cml-data-types:cml_mac_addr_t
|        |  +--ro system-name?                  string
|        |  +--ro chassis-component?            string
|        |  +--ro chassis-id-type?              uint8
|        |  +--ro port-component?               string
|        |  +--ro port-id?                      string
|        |  +--ro port-description?             string
|        |  +--ro port-sub-type?                uint16
|        |  +--ro interface-alias?              string
|        |  +--ro interface-agent-circuit-id?   string
|        |  +--ro ttl?                          uint16
|        |  +--ro interface-number?             uint32
|        |  +--ro interface-number-sub-type?    string
|        |  +--ro port-vlan-id?                 uint16
|        |  +--ro pp-vlanid?                    uint16
|        |  +--ro protocol?                     ipi-lldp-types:lldp_protoid_t
|        |  +--ro vid-usage-digest?             uint32
|        |  +--ro management-vlan?              uint16
|        |  +--ro auto-negotiation-support?     uint8
|        |  +--ro auto-negotiation-capability?  uint16
|        |  +--ro operational-mau-type?         uint16
|        |  +--ro link-aggregate-capability?    cml-data-types:cml_line_t
|        |  +--ro link-aggregate-id?            uint32
|        |  +--ro max-frame-size?               uint16
|        |  +--ro system-description?           string
|        |  +--ro system-capabilities?          cml-data-types:cml_line_t
```

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```
|       | +--ro system-capabilities-enabled?   cml-data-types:cml_line_t
|       | +--ro vlan-list* [vlan-id]
|       |    +--ro vlan-id      uint16
|       |    +--ro vlan-name?   string
|       +--ro management-lists
|          +--ro management-list* [address]
|             +--ro address    -> ../state/address
|             +--ro state
|                +--ro address?                  string
|                +--ro address-sub-type?         cml-data-types:cml_line_t
|                +--ro interface-number-sub-type?   string
|                +--ro interface-number?         uint32
|                +--ro oid?                      string
+--rw agents
  +--rw agent* [agent-type]
     +--rw agent-type     -> ../config/agent-type
     +--rw config
     | +--rw agent-type?      ipi-lldp-types:lldp_agent_t
     | +--rw enable-tx-rx?    ipi-lldp-types:lldp_enable_t
     | +--rw disable-tx-rx?   empty
     +--ro state
     | +--ro agent-type?      ipi-lldp-types:lldp_agent_t
     | +--ro enable-tx-rx?    ipi-lldp-types:lldp_enable_t
     | +--ro disable-tx-rx?   empty
     +--rw transmit
     | +--rw config
     | | +--rw reinit-delay?               uint32
     | | +--rw message-tx-interval?        uint32
     | | +--rw message-tx-hold-multiplier?   uint32
     | | +--rw message-fast-tx?            uint32
     | | +--rw tx-credit-max?              uint32
     | | +--rw tx-fast-init?               uint32
     | +--ro state
     |    +--ro reinit-delay?               uint32
     |    +--ro message-tx-interval?        uint32
     |    +--ro message-tx-hold-multiplier?   uint32
```


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```
|    +--ro message-fast-tx?              uint32
|    +--ro tx-credit-max?                uint32
|    +--ro tx-fast-init?                 uint32
|    +--ro tx-ttl?                       uint16
|    +--ro counters
|       +--ro frames-out?   yang:counter32
+--rw receive
| +--rw config
| | +--rw neighbor-limit?   uint32
| | +--rw neighbor-timer?   uint32
| | +--rw port-mac?         cml-data-types:cml_mac_addr_t
| | +--rw port-timer?       uint32
| +--ro state
|    +--ro neighbor-limit?      uint32
|    +--ro neighbor-timer?      uint32
|    +--ro port-mac?            cml-data-types:cml_mac_addr_t
|    +--ro port-timer?          uint32
|    +--ro frames-aged-out?     yang:counter32
|    +--ro frames-discarded?    yang:counter32
|    +--ro frames-invalid?      yang:counter32
|    +--ro frames-valid?        yang:counter32
|    +--ro tlvs-discarded?      yang:counter32
|    +--ro tlvs-unrecognized?   yang:counter32
+--rw agent-tlv
| +--rw config
| | +--rw port-address?   ipi-lldp-types:lldp_mgmt_addr_t
| | +--rw chassis-id?     ipi-lldp-types:lldp_chassis_t
| | +--rw port-id?        ipi-lldp-types:lldp_port_t
| +--ro state
|    +--ro port-address?   ipi-lldp-types:lldp_mgmt_addr_t
|    +--ro chassis-id?     ipi-lldp-types:lldp_chassis_t
|    +--ro port-id?        ipi-lldp-types:lldp_port_t
+--rw tlv-control
  +--rw basic-management
  | +--rw config
  | | +--rw port-description?      ipi-lldp-types:lldp_tlv_select_type
```

```
| | +--rw system-description?    ipi-lldp-types:lldp_tlv_select_type
| | +--rw system-name?           ipi-lldp-types:lldp_tlv_select_type
| | +--rw system-capabilities?   ipi-lldp-types:lldp_tlv_select_type
| | +--rw management-address?    ipi-lldp-types:lldp_tlv_select_type
| +--ro state
|   +--ro port-description?      ipi-lldp-types:lldp_tlv_select_type
|   +--ro system-description?    ipi-lldp-types:lldp_tlv_select_type
|   +--ro system-name?           ipi-lldp-types:lldp_tlv_select_type
|   +--ro system-capabilities?   ipi-lldp-types:lldp_tlv_select_type
|   +--ro management-address?    ipi-lldp-types:lldp_tlv_select_type
+--rw ieee-8021-org-specific
| +--rw config
| | +--rw port-vlan-id?            ipi-lldp-types:lldp_tlv_select_type
| | +--rw port-protocol-vlan-id?   ipi-lldp-types:lldp_tlv_select_type
| | +--rw vlan-name?               ipi-lldp-types:lldp_tlv_select_type
| | +--rw protocol-identifier?     ipi-lldp-types:lldp_tlv_select_type
| | +--rw vid-digest?              ipi-lldp-types:lldp_tlv_select_type
| | +--rw management-vlan-id?      ipi-lldp-types:lldp_tlv_select_type
| | +--rw link-aggregation?        ipi-lldp-types:lldp_tlv_select_type
| +--ro state
|   +--ro port-vlan-id?            ipi-lldp-types:lldp_tlv_select_type
|   +--ro port-protocol-vlan-id?   ipi-lldp-types:lldp_tlv_select_type
|   +--ro vlan-name?               ipi-lldp-types:lldp_tlv_select_type
|   +--ro protocol-identifier?     ipi-lldp-types:lldp_tlv_select_type
|   +--ro vid-digest?              ipi-lldp-types:lldp_tlv_select_type
|   +--ro management-vlan-id?      ipi-lldp-types:lldp_tlv_select_type
|   +--ro link-aggregation?        ipi-lldp-types:lldp_tlv_select_type
+--rw ieee-8023-org-specific
| +--rw config
| | +--rw mac-phy?        ipi-lldp-types:lldp_tlv_select_type
| | +--rw max-mtu-size?   ipi-lldp-types:lldp_tlv_select_type
| +--ro state
|   +--ro mac-phy?        ipi-lldp-types:lldp_tlv_select_type
|   +--ro max-mtu-size?   ipi-lldp-types:lldp_tlv_select_type
+--rw tlv-media-capabilities
  +--rw config
```


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```
          |  +--rw network-policy?       ipi-lldp-types:lldp_tlv_select_type
          |  +--rw location?             ipi-lldp-types:lldp_tlv_select_type
          |  +--rw inventory?            ipi-lldp-types:lldp_tlv_select_type
          |  +--rw media-capabilities?   ipi-lldp-types:lldp_tlv_select_type
          +--ro state
             +--ro network-policy?       ipi-lldp-types:lldp_tlv_select_type
             +--ro location?             ipi-lldp-types:lldp_tlv_select_type
             +--ro inventory?            ipi-lldp-types:lldp_tlv_select_type
             +--ro media-capabilities?   ipi-lldp-types:lldp_tlv_select_type

rpcs:
  +---x lldp-terminal-debug-on {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-lldp-types:lldp_debug_t
  +---x lldp-terminal-debug-off {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-lldp-types:lldp_debug_t
  +---x clear-lldp-counter {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
  |  +---w input
  |     +---w interface-name?   string
  +---x clear-lldp-neighbors {feature-list:HAVE_ONMD,feature-list:HAVE_LLDPV2}?
  |  +---w input
  |     +---w interface-name?   string
  +---x lldp-snmp-restart {feature-list:HAVE_SNMP}?

notifications:
  +---n lldp-remote-inserts-notification
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro remote-inserts?   yang:counter32
  +---n lldp-remote-deletes-notification
     +--ro severity?         cml-data-types:cml_notif_severity_t
     +--ro eventClass?       cml-data-types:cml_notif_class_t
     +--ro remote-deletes?   yang:counter32
```

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ipi-logging

```
+--rw logging
  +--rw logging-modules
  |  +--rw module-logging* [module-name]
  |     +--rw module-name    -> ../config/module-name
  |     +--rw config
  |     |  +--rw module-name?      ipi-logging-types:module_names_t
  |     |  +--rw severity-level    ipi-logging-types:log_severity_t
  |     +--ro state
  |        +--ro module-name?      ipi-logging-types:module_names_t
  |        +--ro severity-level    ipi-logging-types:log_severity_t
  +--rw monitor-logging
  |  +--rw config!
  |  |  +--rw enable-logging    cml-data-types:cml_enable_disable_t
  |  |  +--rw severity-level?   ipi-logging-types:log_severity_t
  |  +--ro state
  |     +--ro enable-logging    cml-data-types:cml_enable_disable_t
  |     +--ro severity-level?   ipi-logging-types:log_severity_t
  +--rw console-logging
  |  +--rw config!
  |  |  +--rw enable-logging    cml-data-types:cml_enable_disable_t
  |  |  +--rw severity-level?   ipi-logging-types:log_severity_t
  |  +--ro state
  |     +--ro enable-logging    cml-data-types:cml_enable_disable_t
  |     +--ro severity-level?   ipi-logging-types:log_severity_t
  +--rw logfile
  |  +--rw config!
  |  |  +--rw file-name         string
  |  |  +--rw severity-level    ipi-logging-types:log_severity_t
  |  |  +--rw max-file-size?    uint32
  |  +--ro state
  |     +--ro file-name         string
```


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```
|    +--ro severity-level    ipi-logging-types:log_severity_t
|    +--ro max-file-size?    uint32
+--rw debug-logfile
|  +--rw config!
|  |  +--rw file-name        string
|  |  +--rw max-file-size    uint32
|  +--ro state
|    +--ro file-name        string
|    +--ro max-file-size    uint32
+--rw syslog {feature-list:HAVE_SYSLOG}?
|  +--rw config
|  |  +--rw timestamp-granularity?   ipi-logging-types:timestamp_units_t
|  |  +--rw cli-timestamp?           empty
|  +--ro state
|    +--ro timestamp-granularity?   ipi-logging-types:timestamp_units_t
|    +--ro cli-timestamp?           empty
+--rw background-debug
|  +--rw config!
|  |  +--rw enable         empty
|  |  +--rw buffer-size?   uint8
|  +--ro state
|  |  +--ro enable         empty
|  |  +--ro buffer-size?   uint8
|  +--rw bdr-module-loggings
|    +--rw bdr-module-logging* [module-name]
|      +--rw module-name    -> ../config/module-name
|      +--rw config
|      |  +--rw module-name?                    ipi-logging-types:bdr_module_names_t
|      |  +--rw severity-level?                 ipi-logging-types:log_severity_t
|      |  +--rw suppress-non-bdr-logs?          empty
|      |  +--rw disable-suppress-repeated-logs?   empty
|      +--ro state
|        +--ro module-name?                    ipi-logging-types:bdr_module_names_t
|        +--ro severity-level?                 ipi-logging-types:log_severity_t
|        +--ro suppress-non-bdr-logs?          empty
|        +--ro disable-suppress-repeated-logs?   empty
```

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```
    +--rw remote-logging
    |  +--rw config
    |  |  +--rw enable-rsyslog?   empty
    |  +--ro state
    |  |  +--ro enable-rsyslog?   empty
    |  +--rw remote-servers {feature-list:HAVE_VRF}?
    |  |  +--rw remote-server* [vrf]
    |  |     +--rw vrf        -> ../config/vrf
    |  |     +--rw config
    |  |     |  +--rw vrf?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name {feature-
list:HAVE_VRF}?
    |  |     +--ro state
    |  |     |  +--ro vrf?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name {feature-
list:HAVE_VRF}?
    |  |     +--rw servers
    |  |        +--rw server* [address]
    |  |           +--rw address    -> ../config/address
    |  |           +--rw config
    |  |           |  +--rw address?    cml-data-types:cml_hostname_t
    |  |           |  +--rw severity    ipi-logging-types:log_severity_t
    |  |           |  +--rw port?       uint16
    |  |           +--ro state
    |  |              +--ro address?    cml-data-types:cml_hostname_t
    |  |              +--ro severity    ipi-logging-types:log_severity_t
    |  |              +--ro port?       uint16
    |  +--rw default-instance
    |     +--rw config
    |     |  +--rw disable-default-instance?   empty
    |     +--ro state
    |        +--ro disable-default-instance?   empty
    +--rw global
    |  +--rw config
    |  |  +--rw remote-server-facility?     ipi-logging-types:log_facility_t
    |  |  +--rw remote-authpriv-facility?   empty
    |  +--ro state
    |     +--ro remote-server-facility?     ipi-logging-types:log_facility_t
    |     +--ro remote-authpriv-facility?   empty
```


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```
  +--rw cli-logging
  |  +--rw config
  |  |  +--rw enable-logging?   boolean
  |  +--ro state
  |     +--ro enable-logging?   boolean
  +--rw snmp-syslog {feature-list:HAVE_VLOGD}?
  |  +--rw config
  |  |  +--rw severity?   ipi-logging-types:log_severity_t
  |  +--ro state
  |     +--ro severity?   ipi-logging-types:log_severity_t
  +--rw fault-management {feature-list:HAVE_FMS}?
     +--rw config
     |  +--rw enable-fault-management?   empty
     +--ro state
        +--ro enable-fault-management?   empty

rpcs:
  +---x logging-fms-flush-db {feature-list:HAVE_FMS}?
  +---x logging-fms-shelve {feature-list:HAVE_FMS}?
  |  +---w input
  |     +---w alarm-type    string
  +---x logging-fms-close {feature-list:HAVE_FMS}?
  |  +---w input
  |     +---w active-alarm-id    string
  +---x terminal-debug-all-off
  +---x logging-clear-debug-logfile
  +---x logging-clear-logging-logfile
  +---x remove-file
     +---w input
        +---w file_type    ipi-logging-types:remove_files_t
        +---w filename     ipi-logging-types:file_type_t
```

ipi-mac-limit

```
  +--rw mac-limit-global
     +--rw mac-limit-profiles
```

```
    +--rw mac-limit-profile-inst* [mac-lim-profile-name]
      +--rw mac-lim-profile-name    -> ../config/mac-lim-profile-name
      +--rw config
      |  +--rw mac-lim-profile-name?          string
      |  +--rw learning-limit?                uint32
      |  +--rw action?                        ipi-mac-limit-types:mac_limit_action_t
      |  +--rw high-watermark?                uint16
      |  +--rw low-watermark?                 uint16
      |  +--rw errdisable-timeout-interval?   uint32
      +--ro state
        +--ro mac-lim-profile-name?          string
        +--ro learning-limit?                uint32
        +--ro action?                        ipi-mac-limit-types:mac_limit_action_t
        +--ro high-watermark?                uint16
        +--ro low-watermark?                 uint16
        +--ro errdisable-timeout-interval?   uint32
```

ipi-mac-list

```
 +--rw mac-addresses
   +--rw mac-address* [mac-list-name]
     +--rw mac-list-name    -> ../config/mac-list-name
     +--rw config
     |  +--rw mac-list-name?   string
     +--ro state
     |  +--ro mac-list-name?   string
     +--rw mac-entries
       +--rw mac-entry* [sequence-id]
         +--rw sequence-id    -> ../config/sequence-id
         +--rw config
         |  +--rw sequence-id?   uint32
         +--ro state
         |  +--ro sequence-id?   uint32
         +--rw mac
           +--rw entry* [action mac-addr mac-addr-mask]
```


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```
        +--rw action          -> ../config/action
        +--rw mac-addr        -> ../config/mac-addr
        +--rw mac-addr-mask   -> ../config/mac-addr
        +--rw config
        |  +--rw action?          ipi-mac-list-types:mac_list_action_t
        |  +--rw mac-addr?        ipi-mac-list-types:maclist_mac_addr_t
        |  +--rw mac-addr-mask?   ipi-mac-list-types:maclist_mac_mask_t
        +--ro state
           +--ro action?          ipi-mac-list-types:mac_list_action_t
           +--ro mac-addr?        ipi-mac-list-types:maclist_mac_addr_t
           +--ro mac-addr-mask?   ipi-mac-list-types:maclist_mac_mask_t
```

ipi-management-server

```
  +--rw netconf-server
  |  +--rw callhomes {feature-list:HAVE_NETCONF}?
  |  |  +--rw callhome* [vrf-name]
  |  |     +--rw vrf-name          -> ../config/vrf-name
  |  |     +--rw config
  |  |     |  +--rw vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
  |  |     |  +--rw feature-enabled    empty
  |  |     +--ro state
  |  |     |  +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
  |  |     |  +--ro feature-enabled    empty
  |  |     +--rw netconf-clients
  |  |     |  +--rw netconf-client* [name]
  |  |     |     +--rw name      -> ../config/name
  |  |     |     +--rw config
  |  |     |     |  +--rw name?      string
  |  |     |     |  +--rw address    string
  |  |     |     |  +--rw port?      inet:port-number
```

```
  | |    |    +--ro state
  | |    |       +--ro name?      string
  | |    |       +--ro address    string
  | |    |       +--ro port?      inet:port-number
  | |    +--rw reconnect
  | |    | +--rw config!
  | |    | | +--rw enable               empty
  | |    | | +--rw retry-max-attempts?   uint8
  | |    | | +--rw retry-interval?       uint32
  | |    | +--ro state
  | |    |    +--ro enable               empty
  | |    |    +--ro retry-max-attempts?   uint8
  | |    |    +--ro retry-interval?       uint32
  | |    +--rw debug
  | |       +--rw config
  | |       | +--rw enable?   empty
  | |       +--ro state
  | |          +--ro enable?   empty
  | +--rw netconf-translation {feature-list:HAVE_NETCONF,feature-list:HAVE_NETCONF_OC_TRANSLATION}?
  | | +--rw config
  | | | +--rw translation-mode?   ipi-management-server-types:management_server_translation_type_t
  | | +--ro state
  | |    +--ro translation-mode?   ipi-management-server-types:management_server_translation_type_t
  | +--rw vrfs {feature-list:HAVE_NETCONF,feature-list:HAVE_VRF}?
  | | +--rw vrf* [vrf-name]
  | |    +--rw vrf-name             -> ../config/vrf-name
  | |    +--rw config
  | |    | +--rw vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
  | |    +--ro state
  | |    | +--ro vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
  | |    +--rw netconf-ssh-config
  | |    | +--rw config
  | |    | | +--rw feature-netconf-ssh?        empty {feature-list:HAVE_NETCONF}?
  | |    | | +--rw ssh-port?                   uint32 {feature-list:HAVE_NETCONF}?
  | |    | | +--rw disable-default-ssh-port?   empty {feature-list:HAVE_NETCONF}?
```


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```
| |    | +--ro state
| |    |    +--ro feature-netconf-ssh?        empty {feature-list:HAVE_NETCONF}?
| |    |    +--ro ssh-port?                   uint32 {feature-list:HAVE_NETCONF}?
| |    |    +--ro disable-default-ssh-port?   empty {feature-list:HAVE_NETCONF}?
| |    +--rw netconf-tls-config
| |       +--rw config
| |       | +--rw feature-netconf-tls?   empty {feature-list:HAVE_NETCONF}?
| |       | +--rw tls-port?              uint32 {feature-list:HAVE_NETCONF}?
| |       +--ro state
| |          +--ro feature-netconf-tls?   empty {feature-list:HAVE_NETCONF}?
| |          +--ro tls-port?              uint32 {feature-list:HAVE_NETCONF}?
| +--rw netconf-tls-default-instance {feature-list:HAVE_NETCONF}?
| | +--rw config
| | | +--rw netconf-tls-disable-default-instance?   empty
| | +--ro state
| |    +--ro netconf-tls-disable-default-instance?   empty
| +--rw netconf-ssh-default-instance {feature-list:HAVE_NETCONF}?
| | +--rw config {feature-list:HAVE_NETCONF}?
| | | +--rw netconf-ssh-disable-default-instance?   empty {feature-list:HAVE_NETCONF}?
| | +--ro state
| |    +--ro netconf-ssh-disable-default-instance?   empty {feature-list:HAVE_NETCONF}?
| +--rw notification-cache {feature-list:HAVE_NETCONF}?
| | +--rw config!
| | | +--rw feature-enabled           empty
| | | +--rw max-cache-notifications?   uint16
| | | +--rw cache-period?              uint32
| | +--ro state
| |    +--ro feature-enabled           empty
| |    +--ro max-cache-notifications?   uint16
| |    +--ro cache-period?              uint32
| +--rw commit-history
| | +--rw config
| | | +--rw disable-commit-history?   empty
| | +--ro state
| |    +--ro disable-commit-history?   empty
| +--rw bulk-config
```

```
|    +--rw config
|    | +--rw bulk-config-cpu-limit-enabled?   empty
|    +--ro state
|      +--ro bulk-config-cpu-limit-enabled?   empty
+--rw management-server
  +--rw module-notifications
    +--rw module-notification* [module-name]
      +--rw module-name    -> ../config/module-name
      +--rw config
      | +--rw module-name?   ipi-management-server-notification-types:notif_module_names_t
      | +--rw enable         cml-data-types:cml_enable_disable_t
      | +--rw severity?      cml-data-types:cml_notif_severity_t
      +--ro state
        +--ro module-name?   ipi-management-server-notification-types:notif_module_names_t
        +--ro enable         cml-data-types:cml_enable_disable_t
        +--ro severity?      cml-data-types:cml_notif_severity_t

notifications:
  +---n suppress-bulk-notification
    +--ro severity?     cml-data-types:cml_notif_severity_t
    +--ro eventClass?   cml-data-types:cml_notif_class_t
    +--ro message?      string
```

ipi-mcec

```
+--rw mcec
  +--rw debug
  | +--rw config
  | | +--rw options?   ipi-mcec-types:mcec_debug_t
  | +--ro state
  |    +--ro options?                ipi-mcec-types:mcec_debug_t
  |    +--ro terminal-debug-status?   ipi-mcec-types:mcec_debug_t
  +--rw domain
  | +--rw config
```


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```
| | +--rw mcec-strict-active-standby?   empty
| | +--rw system-number?               uint8
| | +--rw delay-time?                  uint32
| | +--rw address?                     ipi-mcec-types:mcec_domain_addr_t
| | +--rw priority?                    uint16
| | +--rw hello-timeout?               ipi-mcec-types:mcec_hello_t
| +--ro state
|    +--ro mcec-strict-active-standby?   empty
|    +--ro system-number?               uint8
|    +--ro delay-time?                  uint32
|    +--ro address?                     ipi-mcec-types:mcec_domain_addr_t
|    +--ro priority?                    uint16
|    +--ro hello-timeout?               ipi-mcec-types:mcec_hello_t
|    +--ro domain-sync?                 ipi-mcec-types:mcec_domain_sync_status_t
|    +--ro domain-adjacency?            ipi-mcec-types:mcec_domain_adjacency_state_t
|    +--ro mcec-invalid-pdu-rx?         uint32
+--ro mcec-instance* [mlag-id]
| +--ro mlag-id     -> ../state/mlag-id
| +--ro state
| | +--ro mlag-id?                          uint16
| | +--ro interface?                        string
| | +--ro administrative-aggregation-key?       uint16
| | +--ro operational-aggregation-key?          uint16
| | +--ro physical-properties-digest?           string
| | +--ro operational-partner-aggregation-key?   uint16
| | +--ro partner-system?                       string
| | +--ro partner-system-priority?              uint16
| | +--ro member-interface-bandwidth?           string
| | +--ro member-interface-state?               ipi-mcec-types:mcec_if_state_t
| | +--ro mlag-sync?                            ipi-mcec-types:mcec_sync_state_t
| | +--ro flood-enabled?                        ipi-mcec-types:mcec_flood_state_t
| | +--ro mlag-port-state?                      ipi-mcec-types:mcec_if_state_t
| | +--ro mlag-interface-state?                 ipi-mcec-types:mcec_if_state_t
| | +--ro aggregation-mapped?                   boolean
| | +--ro mlag-bandwidth?                       string
| | +--ro info-receive-state?                   ipi-mcec-types:mcec_info_receive_state_t
```

```
  | | +--ro info-periodic-tx-state?              ipi-mcec-types:mcec_info_periodic_tx_state_t
  | | +--ro valid-info-pdu-rx?                   uint32
  | | +--ro valid-info-pdu-tx?                   uint32
  | +--ro neighbor
  |   +--ro state
  |     +--ro administrative-aggregation-key?       uint16
  |     +--ro physical-properties-digest?           string
  |     +--ro operational-partner-aggregation-key?  uint16
  |     +--ro partner-system?                       string
  |     +--ro partner-system-priority?              uint16
  |     +--ro member-interface-bandwidth?           string
  |     +--ro member-interface-state?               ipi-mcec-types:mcec_if_state_t
  |     +--ro mlag-sync?                            ipi-mcec-types:mcec_sync_state_t
  +--rw intra-domain
  | +--rw peer-link
  | | +--rw config
  | | | +--rw interface?   -> /ipi-interface:interfaces/interface/name
  | | +--ro state
  | |   +--ro interface?   -> /ipi-interface:interfaces/interface/name
  | +--rw peer-address
  | | +--rw config!
  | | | +--rw peer-address     inet:ipv4-address
  | | | +--rw local-address    inet:ipv4-address
  | | | +--rw vrf              -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
  | | +--ro state
  | |   +--ro peer-address     inet:ipv4-address
  | |   +--ro local-address    inet:ipv4-address
  | |   +--ro vrf              -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
  | +--ro neighbor-info
  | | +--ro state
  | |   +--ro domain-address?         ipi-mcec-types:mcec_domain_addr_t
  | |   +--ro domain-priority?        uint32
  | |   +--ro domain-system-number?   uint16
  | |   +--ro domain-sync?            ipi-mcec-types:mcec_domain_sync_status_t
  | |   +--ro hello-timeout?          uint16
```


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```
|  +--ro intra-domain-peer-info
|     +--ro state
|        +--ro mcec-hello-periodic-tx-state?   ipi-mcec-types:mcec_hello_periodic_tx_state_t
|        +--ro mcec-valid-hello-pdu-rx?        uint32
|        +--ro mcec-valid-hello-pdu-tx?        uint32
|        +--ro mcec-valid-info-pdu-rx?         uint32
|        +--ro mcec-valid-info-pdu-tx?         uint32
|        +--ro mcec-valid-mac-sync-pdu-rx?     uint32
|        +--ro mcec-valid-mac-sync-pdu-tx?     uint32
+--ro mac-sync
|  +--ro local-mac-table* [mac-address vlan-id]
|  |  +--ro mac-address    -> ../state/mac-address
|  |  +--ro vlan-id        -> ../state/vlan-id
|  |  +--ro state
|  |     +--ro mac-address?        string
|  |     +--ro vlan-id?            uint16
|  |     +--ro output-interface?   string
|  +--ro remote-mac-table* [mac-address vlan-id]
|     +--ro mac-address    -> ../state/mac-address
|     +--ro vlan-id        -> ../state/vlan-id
|     +--ro state
|        +--ro mac-address?        string
|        +--ro vlan-id?            uint16
|        +--ro output-interface?   string
+--ro stp-sync
|  +--ro state
|  |  +--ro bridge-priority?          uint16
|  |  +--ro path-cost-method?         uint8
|  |  +--ro domain-digest?            string
|  |  +--ro neighbor-domain-digest?   string
|  +--ro mlag-interface-sync-entry* [mlag-id]
|     +--ro mlag-id    -> ../state/mlag-id
|     +--ro state
|        +--ro mlag-id?                   uint16
|        +--ro port-priority?             uint16
|        +--ro path-cost?                 uint32
```

```
  |       +--ro interface-digest?            string
  |       +--ro neighbor-interface-digest?   string
  +--rw mlag-interfaces
    +--rw mlag-interface* [name]
      +--rw name               -> ../config/name
      +--rw config
      | +--rw name?             -> /ipi-interface:interfaces/interface/name
      | +--rw interface-mode?   ipi-mcec-types:mcec_mode_type_t
      +--ro state
      | +--ro name?             -> /ipi-interface:interfaces/interface/name
      | +--ro interface-mode?   ipi-mcec-types:mcec_mode_type_t
      +--rw switchover-type
        +--rw config
        | +--rw revertive-timer?        uint16
        | +--rw enable-non-revertive?   empty
        +--ro state
          +--ro revertive-timer?        uint16
          +--ro enable-non-revertive?   empty

rpcs:
  +---x mcec-terminal-debug-on {feature-list:HAVE_LAGD,feature-list:HAVE_MCEC}?
  | +---w input
  |    +---w terminal-debug-options    ipi-mcec-types:mcec_debug_t
  +---x mcec-terminal-debug-off {feature-list:HAVE_LAGD,feature-list:HAVE_MCEC}?
  | +---w input
  |    +---w terminal-debug-options    ipi-mcec-types:mcec_debug_t
  +---x clear-mcec-statistics {feature-list:HAVE_LAGD,feature-list:HAVE_MCEC}?
```

ipi-mlag

```
  +--ro mlag
    +--ro mlag-interface* [mlag-id]
    | +--ro mlag-id    -> ../state/mlag-id
    | +--ro state
    |    +--ro mlag-id?          uint16
```


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```
  |     +--ro interface-flags?   ipi-mlag-types:mlag_interface_flags_t
  |     +--ro bandwidth?         string
  +--ro intra-domain-port
  |  +--ro state
  |     +--ro interface-name?    string
  |     +--ro interface-index?   uint32
  |     +--ro interface-type?    ipi-mlag-types:mlag_idp_interface_type_t
  |     +--ro bridge-name?       string
  +--ro mstp-sync-info
     +--ro state
     |  +--ro bridge-priority?     uint16
     |  +--ro path-cost-method?    uint8
     |  +--ro num-of-interfaces?   uint16
     |  +--ro domain-digest*       string
     +--ro interface-sync-info* [interface-mlag-id]
        +--ro interface-mlag-id    -> ../state/interface-mlag-id
        +--ro state
           +--ro interface-mlag-id?    uint16
           +--ro interface-priority?   uint16
           +--ro path-cost?            uint32
           +--ro interface-digest*     string

augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw mlag-aggregation!
     +--rw config!
     |  +--rw mlag-id    uint16
     +--ro state
        +--ro mlag-id    uint16
```

ipi-mld-snooping

```
+--rw mld-snooping
  +--rw global
  |  +--rw config
  |  |  +--rw disable-mld-snooping?         empty
  |  |  +--rw disable-report-suppression?   empty
  |  +--ro state
  |     +--ro disable-mld-snooping?         empty
  |     +--ro disable-report-suppression?   empty
  +--rw debug
  |  +--rw config
  |  |  +--rw options?   ipi-mld-snooping-types:mld_snoop_debug_options_t
  |  +--ro state
  |     +--ro options?                ipi-mld-snooping-types:mld_snoop_debug_options_t
  |     +--ro terminal-debug-status?   ipi-mld-snooping-types:mld_snoop_debug_options_t
  +--rw interfaces
     +--rw interface* [name]
        +--rw name      -> ../config/name
        +--rw config
        |  +--rw name?                   -> /ipi-interface:interfaces/interface/name
        |  +--rw mld-snooping?           cml-data-types:cml_enable_disable_t
        |  +--rw enable-fast-leave?      empty
        |  +--rw report-suppression?     cml-data-types:cml_enable_disable_t
        |  +--rw mrouter-interface-name*   -> /ipi-interface:interfaces/interface/name
        |  +--rw enable-querier?         empty
        +--ro state
           +--ro name?                   -> /ipi-interface:interfaces/interface/name
           +--ro mld-snooping?           cml-data-types:cml_enable_disable_t
           +--ro enable-fast-leave?      empty
           +--ro report-suppression?     cml-data-types:cml_enable_disable_t
           +--ro mrouter-interface-name*   -> /ipi-interface:interfaces/interface/name
           +--ro enable-querier?         empty

rpcs:
  +---x mld-snooping-terminal-debug-on {feature-list:HAVE_MLD_SNOOP}?
```


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```
  |  +---w input
  |     +---w terminal-debug-options    ipi-mld-snooping-types:mld_snoop_debug_options_t
  +---x mld-snooping-terminal-debug-off {feature-list:HAVE_MLD_SNOOP}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-mld-snooping-types:mld_snoop_debug_options_t
  +---x mld-snooping-clear-group-on-interface {feature-list:HAVE_MLD_SNOOP}?
  |  +---w input
  |     +---w group-address     string
  |     +---w interface-name    string
  +---x mld-snooping-clear-all-groups-on-interface {feature-list:HAVE_MLD_SNOOP}?
  |  +---w input
  |     +---w interface-name    string
  +---x mld-snooping-clear-group {feature-list:HAVE_MLD_SNOOP}?
  |  +---w input
  |     +---w group-address    string
  +---x mld-snooping-clear-all-groups {feature-list:HAVE_MLD_SNOOP}?
```

ipi-mld

```
 +--rw mld
    +--rw vrfs
    |  +--rw vrf* [vrf-name]
    |     +--rw vrf-name                  -> ../config/vrf-name
    |     +--rw config
    |     |  +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |     |  +--rw disable-ssm-map?   empty
    |     +--ro state
    |     |  +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
    |     |  +--ro disable-ssm-map?   empty
    |     +--rw group-membership-control
    |     |  +--rw config
    |     |  |  +--rw member-limit?          uint32
    |     |  |  +--rw limit-exception-acl?   string
    |     |  +--ro state
    |     |     +--ro member-limit?          uint32
```

```
|    |    +--ro limit-exception-acl?    string
|    |    +--ro current-states-count?   yang:counter32
|    +--rw ssm
|    | +--rw static-mappings
|    |    +--rw static-mapping* [group-ranges-acl source]
|    |       +--rw group-ranges-acl    -> ../config/group-ranges-acl
|    |       +--rw source              -> ../config/source
|    |       +--rw config
|    |       | +--rw group-ranges-acl?   string
|    |       | +--rw source?             inet:ipv6-address
|    |       +--ro state
|    |          +--ro group-ranges-acl?   string
|    |          +--ro source?             inet:ipv6-address
|    +--rw debug
|       +--rw config
|       | +--rw debug-options?   ipi-mld-types:mld_debug_options_t
|       +--ro state
|          +--ro debug-options?              ipi-mld-types:mld_debug_options_t
|          +--ro terminal-debug-status-on?   ipi-mld-types:mld_debug_options_t
+--rw interfaces
| +--rw interface* [name]
|    +--rw name                     -> ../config/name
|    +--rw config
|    | +--rw name?                     -> /ipi-interface:interfaces/interface/name
|    | +--rw enabled?                   empty
|    | +--rw last-member-query-count?      uint8
|    | +--rw last-member-query-interval?   uint16
|    | +--rw querier-timeout?              uint16
|    | +--rw query-interval?               uint16
|    | +--rw query-max-response-time?      uint8
|    | +--rw startup-query-interval?       uint16
|    | +--rw startup-query-count?          uint8
|    | +--rw robustness-variable?          uint8
|    | +--rw version?                   uint8
|    +--ro state
|    | +--ro counters
```


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```
|    | |  +--ro v1-reports-received?     yang:counter32
|    | |  +--ro v2-reports-received?     yang:counter32
|    | |  +--ro v1-leaves-received?      yang:counter32
|    | |  +--ro current-group-records?   yang:counter32
|    |  +--ro internet-address?            inet:ipv6-address
|    |  +--ro oper-status?                 ipi-mld-types:mld_if_oper_status_t
|    |  +--ro host-version?                uint8
|    |  +--ro is-querier?                  boolean
|    |  +--ro querying-router?             inet:ipv6-address
|    |  +--ro group-membership-interval?   uint32
|    |  +--ro name?                        -> /ipi-interface:interfaces/interface/name
|    |  +--ro enabled?                     empty
|    |  +--ro last-member-query-count?     uint8
|    |  +--ro last-member-query-interval?  uint16
|    |  +--ro querier-timeout?             uint16
|    |  +--ro query-interval?              uint16
|    |  +--ro query-max-response-time?     uint8
|    |  +--ro startup-query-interval?      uint16
|    |  +--ro startup-query-count?         uint8
|    |  +--ro robustness-variable?         uint8
|    |  +--ro version?                     uint8
|    +--rw proxy
|    |  +--rw config
|    | |  +--rw enable-proxy-service?         empty
|    | |  +--rw mroute-proxy-interface?       string
|    | |  +--rw unsolicited-report-interval?  uint16
|    |  +--ro state
|    |    +--ro enable-proxy-service?         empty
|    |    +--ro mroute-proxy-interface?       string
|    |    +--ro unsolicited-report-interval?  uint16
|    |    +--ro oper-status?                  ipi-mld-types:mld_proxy_if_oper_status_t
|    |    +--ro upstream-interface?           string
|    |    +--ro mcast-groups-count?           yang:counter32
|    +--rw group-membership-control
|    |  +--rw config
|    | |  +--rw access-group-name?            string
```

```
|    | | +--rw immediate-leave-groups-list?   string
|    | | +--rw member-limit?                  uint32
|    | | +--rw limit-exception-acl?           string
|    | +--ro state
|    |    +--ro access-group-name?            string
|    |    +--ro immediate-leave-groups-list?   string
|    |    +--ro member-limit?                 uint32
|    |    +--ro limit-exception-acl?          string
|    +--rw asm-static-groups
|    | +--rw asm-static-group* [group-address]
|    |    +--rw group-address    -> ../config/group-address
|    |    +--rw config
|    |    | +--rw group-address?   inet:ipv6-address
|    |    +--ro state
|    |       +--ro group-address?   inet:ipv6-address
|    +--rw ssm-static-groups
|       +--rw ssm-static-group* [group-address source]
|          +--rw group-address    -> ../config/group-address
|          +--rw source           -> ../config/source
|          +--rw config
|          | +--rw group-address?   inet:ipv6-address
|          | +--rw source?          ipi-mld-types:mld_static_ssm_source_t
|          +--ro state
|             +--ro group-address?   inet:ipv6-address
|             +--ro source?          ipi-mld-types:mld_static_ssm_source_t
+--ro group-membership-tree
  +--ro mld-instances
    +--ro mld-instance* [vrf-name]
      +--ro vrf-name      -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
      +--ro interfaces
        +--ro interface* [if-name]
          +--ro if-name          -> /ipi-interface:interfaces/interface/name
          +--ro member-groups
          | +--ro member-group* [group-address]
          |    +--ro group-address      -> ../state/group-address
          |    +--ro state
```


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```
|    | +--ro group-address?    inet:ipv6-address
|    | +--ro dynamic-remote?   empty
|    | +--ro static-group?     empty
|    | +--ro ssm-mapped?       empty
|    | +--ro static-source?    empty
|    | +--ro up-time?          string
|    | +--ro group-mode?       ipi-mld-types:mld_ssm_group_mode_t
|    | +--ro expiry?           string
|    | +--ro last-reporter?    inet:ipv6-address
|    +--ro include-sources
|    | +--ro include-source* [source-address]
|    |    +--ro source-address    -> ../state/source-address
|    |    +--ro state
|    |       +--ro source-address?   inet:ipv6-address
|    |       +--ro dynamic-remote?   empty
|    |       +--ro static-source?    empty
|    |       +--ro ssm-mapped?       empty
|    |       +--ro up-time?          string
|    |       +--ro expiry?           string
|    |       +--ro is-forwarded?     ipi-mld-types:mld_yes_no_t
|    +--ro exclude-sources
|       +--ro exclude-source* [source-address]
|          +--ro source-address    -> ../state/source-address
|          +--ro state
|             +--ro source-address?   inet:ipv6-address
|             +--ro dynamic-remote?   empty
|             +--ro static-source?    empty
|             +--ro ssm-mapped?       empty
|             +--ro up-time?          string
|             +--ro expiry?           string
|             +--ro is-forwarded?     ipi-mld-types:mld_yes_no_t
+--ro proxy-groups
   +--ro proxy-group* [group-address]
      +--ro group-address    -> ../state/group-address
      +--ro state
         +--ro group-address?       inet:ipv6-address
```

```
                +--ro proxy-interface?     string
                +--ro group-mode?          ipi-mld-types:mld_ssm_group_mode_t
                +--ro oper-state?          ipi-mld-types:mld_if_state_t
                +--ro membership-state?    ipi-mld-types:mld_proxy_grp_membership_state_t
                +--ro multicast-sources*   inet:ipv6-address


  rpcs:
    +---x mld-terminal-debug-on {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
    |  +---w input
    |     +---w vrf-name?             string
    |     +---w term-debug-options    ipi-mld-types:mld_debug_options_t
    +---x mld-terminal-debug-off {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
    |  +---w input
    |     +---w vrf-name?             string
    |     +---w term-debug-options    ipi-mld-types:mld_debug_options_t
    +---x mld-clear-all-groups {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
    |  +---w input
    |     +---w vrf-name?    string
    |     +---w clear-all    empty
    +---x mld-clear-group-on-interface {feature-list:HAVE_MCAST_IPV6,feature-
list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
    |  +---w input
    |     +---w vrf-name?        string
    |     +---w if-name          string
    |     +---w group-address    inet:ipv6-address
    +---x mld-clear-all-groups-on-interface {feature-list:HAVE_MCAST_IPV6,feature-
list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
    |  +---w input
    |     +---w vrf-name?   string
    |     +---w if-name     string
    +---x mld-clear-group {feature-list:HAVE_MCAST_IPV6,feature-list:NOT_HAVE_DUNE_OR_HAVE_DNX}?
       +---w input
          +---w vrf-name?        string
          +---w group-address    inet:ipv6-address
```


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ipi-mpls-bfd

```
augment /ipi-bfd:bfd:
  +--rw mpls-lsp
    +--rw session-groups
      +--rw session-group* [lsp-type fec-address]
        +--rw lsp-type              -> ../config/lsp-type
        +--rw fec-address           -> ../config/fec-address
        +--rw config
        |  +--rw lsp-type?      ipi-bfd-types:mpls_bfd_lsp_type_t
        |  +--rw fec-address?   cml-data-types:cml_ipv4_addr_prefix_t
        +--ro state
        |  +--ro lsp-type?      ipi-bfd-types:mpls_bfd_lsp_type_t
        |  +--ro fec-address?   cml-data-types:cml_ipv4_addr_prefix_t
        +--rw session-attributes
          +--rw config
          |  +--rw lsp-ping-interval?   uint16
          |  +--rw admin-down?          empty
          +--ro state
          |  +--ro lsp-ping-interval?   uint16
          |  +--ro admin-down?          empty
          +--rw intervals
            +--rw interval* [minimum-tx minimum-rx detection-multiplier]
              +--rw minimum-tx              -> ../config/minimum-tx
              +--rw minimum-rx              -> ../config/minimum-rx
              +--rw detection-multiplier    -> ../config/detection-multiplier
              +--rw config
              |  +--rw minimum-tx?            uint32
              |  +--rw minimum-rx?            uint32
              |  +--rw detection-multiplier?   uint8
              +--ro state
                +--ro minimum-tx?            uint32
                +--ro minimum-rx?            uint32
                +--ro detection-multiplier?   uint8
augment /ipi-bfd:bfd:
```

```
  +--rw mpls-all-lsps
    +--rw mpls-all-lsp* [lsp-type]
      +--rw lsp-type              -> ../config/lsp-type
      +--rw config
      |  +--rw lsp-type?   ipi-bfd-types:mpls_bfd_all_lsp_type_t
      +--ro state
      |  +--ro lsp-type?   ipi-bfd-types:mpls_bfd_all_lsp_type_t
      +--rw session-attributes
        +--rw config
        |  +--rw lsp-ping-interval?   uint16
        |  +--rw admin-down?          empty
        +--ro state
        |  +--ro lsp-ping-interval?   uint16
        |  +--ro admin-down?          empty
        +--rw intervals
          +--rw interval* [minimum-tx minimum-rx detection-multiplier]
            +--rw minimum-tx              -> ../config/minimum-tx
            +--rw minimum-rx              -> ../config/minimum-rx
            +--rw detection-multiplier    -> ../config/detection-multiplier
            +--rw config
            |  +--rw minimum-tx?            uint32
            |  +--rw minimum-rx?            uint32
            |  +--rw detection-multiplier?   uint8
            +--ro state
              +--ro minimum-tx?            uint32
              +--ro minimum-rx?            uint32
              +--ro detection-multiplier?   uint8
augment /ipi-bfd:bfd:
  +--rw mpls-tunnels
    +--rw mpls-tunnel* [lsp-type tunnel-name]
      +--rw lsp-type              -> ../config/lsp-type
      +--rw tunnel-name           -> ../config/tunnel-name
      +--rw config
      |  +--rw lsp-type?      ipi-bfd-types:mpls_bfd_te_type_t
      |  +--rw tunnel-name?   string
      +--ro state
```


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```
  |  +--ro lsp-type?      ipi-bfd-types:mpls_bfd_te_type_t
  |  +--ro tunnel-name?   string
  +--rw session-attributes
     +--rw config
     |  +--rw lsp-ping-interval?   uint16
     |  +--rw admin-down?          empty
     +--ro state
     |  +--ro lsp-ping-interval?   uint16
     |  +--ro admin-down?          empty
     +--rw intervals
        +--rw interval* [minimum-tx minimum-rx detection-multiplier]
           +--rw minimum-tx              -> ../config/minimum-tx
           +--rw minimum-rx              -> ../config/minimum-rx
           +--rw detection-multiplier    -> ../config/detection-multiplier
           +--rw config
           |  +--rw minimum-tx?            uint32
           |  +--rw minimum-rx?            uint32
           |  +--rw detection-multiplier?  uint8
           +--ro state
              +--ro minimum-tx?            uint32
              +--ro minimum-rx?            uint32
              +--ro detection-multiplier?  uint8
```

ipi-mpls-rib

```
augment /ipi-mpls:mpls:
  +--rw rib
     +--ro global-ftn-table
     |  +--ro ipv4-ftn-entry* [fec-prefix owner lsp-type tunnel-id] {feature-list:HAVE_VRF}?
     |  |  +--ro fec-prefix     -> ../state/fec-prefix
     |  |  +--ro owner          -> ../state/owner
     |  |  +--ro lsp-type       -> ../state/lsp-type
     |  |  +--ro tunnel-id      -> ../state/tunnel-id
     |  |  +--ro nhlfe-entry* [out-interface out-label administrative-status xc-index xc-type nhlfe-index]
     |  |  |  +--ro out-interface           -> ../state/out-interface
```

```
| | | +--ro out-label               -> ../state/out-label
| | | +--ro administrative-status    -> ../state/administrative-status
| | | +--ro xc-index                 -> ../state/xc-index
| | | +--ro xc-type                  -> ../state/xc-type
| | | +--ro nhlfe-index              -> ../state/nhlfe-index
| | | +--ro state
| | |    +--ro out-interface?          -> /ipi-interface:interfaces/interface/name
| | |    +--ro out-label?              uint32
| | |    +--ro nexthop-address?        inet:ipv4-address
| | |    +--ro nhlfe-type?             ipi-mpls-types:mpls_rib_nhlfe_type_t
| | |    +--ro xc-index?               uint32
| | |    +--ro xc-type?                ipi-mpls-types:mpls_rib_xc_type_t
| | |    +--ro nhlfe-index?            uint32
| | |    +--ro administrative-status?   ipi-mpls-types:mpls_rib_entry_admin_status_t
| | |    +--ro oper-status?            ipi-mpls-types:mpls_rib_entry_oper_status_t
| | |    +--ro nhlfe-owner?            ipi-mpls-types:mpls_rib_entry_owner_t
| | |    +--ro is-stale?               boolean
| | |    +--ro label-op-code?          ipi-mpls-types:mpls_rib_label_op_code_t
| | |    +--ro in-interface?           string
| | |    +--ro in-label?               uint32
| | |    +--ro tunnel-name?            string
| | |    +--ro transport-out-intf?     string
| | +--ro state
| |    +--ro fec-prefix?             cml-data-types:cml_ipv4_addr_prefix_t
| |    +--ro owner?                  ipi-mpls-types:mpls_rib_entry_owner_t
| |    +--ro lsp-type?               ipi-mpls-types:mpls_rib_lsp_type_t
| |    +--ro unique-nhlfe-ix?        uint32
| |    +--ro ftn-index?              uint32
| |    +--ro is-primary?             boolean
| |    +--ro route-distance?         uint8
| |    +--ro redirect-action-type?   ipi-mpls-types:mpls_rib_action_type_t
| |    +--ro qos-exp-bits?           uint32
| |    +--ro is-entropy-label?       boolean
| |    +--ro in-dscp-class-name?     string
| |    +--ro tunnel-id?              uint32
| |    +--ro protected-lsp-id?       uint32
```


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```
| |    +--ro qos-resource-id?        uint32
| |    +--ro color?                  uint32 {feature-list:HAVE_SERVICE_MAPPING}?
| |    +--ro tunnel-policy-name?     string {feature-list:HAVE_SERVICE_MAPPING}?
| |    +--ro rsvp-multipath-name?    string {feature-list:HAVE_RSVP_MULTIPATH}?
| |    +--ro row-status?             string
| |    +--ro state?                  string
| |    +--ro create-time?            cml-data-types:cml_line_t
| |    +--ro up-time?                cml-data-types:cml_line_t
| |    +--ro last-update?            cml-data-types:cml_line_t
| |    +--ro description?            string
| +--ro ipv6-ftn-entry* [fec-prefix6 owner lsp-type tunnel-id] {feature-list:HAVE_IPV6}?
|    +--ro fec-prefix6    -> ../state/fec-prefix6
|    +--ro owner          -> ../state/owner
|    +--ro lsp-type       -> ../state/lsp-type
|    +--ro tunnel-id      -> ../state/tunnel-id
|    +--ro nhlfe-entry* [out-interface out-label administrative-status]
|    | +--ro out-interface           -> ../state/out-interface
|    | +--ro out-label               -> ../state/out-label
|    | +--ro administrative-status    -> ../state/administrative-status
|    | +--ro state
|    |    +--ro out-interface?          -> /ipi-interface:interfaces/interface/name
|    |    +--ro out-label?              uint32
|    |    +--ro nexthop-address?        inet:ip-address
|    |    +--ro nhlfe-type?             ipi-mpls-types:mpls_rib_nhlfe_type_t
|    |    +--ro administrative-status?   ipi-mpls-types:mpls_rib_entry_admin_status_t
|    |    +--ro oper-status?            ipi-mpls-types:mpls_rib_entry_oper_status_t
|    |    +--ro nhlfe-owner?            ipi-mpls-types:mpls_rib_entry_owner_t
|    |    +--ro is-stale?               boolean
|    |    +--ro label-op-code?          ipi-mpls-types:mpls_rib_label_op_code_t
|    |    +--ro in-interface?           string
|    |    +--ro in-label?               uint32
|    +--ro state
|       +--ro fec-prefix6?          cml-data-types:cml_ipv6_prefix_t
|       +--ro owner?                ipi-mpls-types:mpls_rib_entry_owner_t
|       +--ro lsp-type?             ipi-mpls-types:mpls_rib_lsp_type_t
|       +--ro unique-nhlfe-ix?      uint32
```

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```
|       +--ro ftn-index?              uint32
|       +--ro is-primary?             boolean
|       +--ro route-distance?         uint8
|       +--ro redirect-action-type?   ipi-mpls-types:mpls_rib_action_type_t
|       +--ro qos-exp-bits?           uint32
|       +--ro is-entropy-label?       boolean
|       +--ro in-dscp-class-name?     string
|       +--ro tunnel-id?              uint32
|       +--ro protected-lsp-id?       uint32
|       +--ro qos-resource-id?        uint32
|       +--ro color?                  uint32 {feature-list:HAVE_SERVICE_MAPPING}?
|       +--ro tunnel-policy-name?     string {feature-list:HAVE_SERVICE_MAPPING}?
|       +--ro rsvp-multipath-name?    string {feature-list:HAVE_RSVP_MULTIPATH}?
|       +--ro row-status?             string
|       +--ro state?                  string
|       +--ro create-time?            cml-data-types:cml_line_t
|       +--ro up-time?                cml-data-types:cml_line_t
|       +--ro last-update?            cml-data-types:cml_line_t
|       +--ro description?            string
+--ro ilm-table
|  +--ro ip-ilm-entry* [in-interface in-label] {feature-list:HAVE_VRF}?
|     +--ro in-interface    -> ../state/in-interface
|     +--ro in-label        -> ../state/in-label
|     +--ro nhlfe-entry* [out-interface out-label xc-index xc-type nhlfe-index]
|     |  +--ro out-interface    -> ../state/out-interface
|     |  +--ro out-label        -> ../state/out-label
|     |  +--ro xc-index         -> ../state/xc-index
|     |  +--ro xc-type          -> ../state/xc-type
|     |  +--ro nhlfe-index      -> ../state/nhlfe-index
|     |  +--ro state
|     |     +--ro out-interface?        -> /ipi-interface:interfaces/interface/name
|     |     +--ro out-label?            uint32
|     |     +--ro xc-index?             uint32
|     |     +--ro xc-type?              ipi-mpls-types:mpls_rib_xc_type_t
|     |     +--ro nexthop-address?      inet:ip-address
|     |     +--ro nhlfe-owner?          ipi-mpls-types:mpls_rib_entry_owner_t
```


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```
|    |    +--ro nhlfe-index?          uint32
|    |    +--ro label-op-code?        ipi-mpls-types:mpls_rib_label_op_code_t
|    |    +--ro tunnel-name?          string
|    |    +--ro transport-out-intf?   string
|    +--ro state
|       +--ro in-interface?          -> /ipi-interface:interfaces/interface/name
|       +--ro in-label?              uint32
|       +--ro vrf-name?              -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
|       +--ro owner?                 ipi-mpls-types:mpls_rib_entry_owner_t
|       +--ro ilm-index?             uint32
|       +--ro is-stitched-to-ftn?    boolean
|       +--ro is-installed-in-fib?   boolean
|       +--ro is-selected?           boolean
|       +--ro is-stale?              boolean
|       +--ro fec-prefix?            cml-data-types:cml_ip_prefix_t
|       +--ro label-op-code?         ipi-mpls-types:mpls_rib_label_op_code_t
|       +--ro pseudowire-id?         uint32
|       +--ro evpn-id?               uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
+--ro rsvp-multipath-table {feature-list:HAVE_RSVP_MULTIPATH}?
|  +--ro rsvp-multipath-entry* [multipath-identifier]
|    +--ro multipath-identifier    -> ../state/multipath-identifier
|    +--ro state
|       +--ro multipath-identifier?    uint16
|       +--ro multipath-name?          string
|       +--ro multipath-nhlfe-index?   uint32
|       +--ro fec-prefix?              cml-data-types:cml_ipv4_addr_prefix_t
|       +--ro active-member-count?     uint16
+--rw map-route
|  +--rw static-ipv4-map-routes
|    +--rw static-ipv4-map-route* [route-prefix]
|       +--rw route-prefix    -> ../config/route-prefix
|       +--rw config
|       |  +--rw route-prefix?   cml-data-types:cml_ipv4_prefix_t
|       |  +--rw mapped-fec      cml-data-types:cml_ipv4_prefix_t
|       +--ro state
|          +--ro route-prefix?   cml-data-types:cml_ipv4_prefix_t
```

```
|          +--ro mapped-fec      cml-data-types:cml_ipv4_prefix_t
+--rw static-lsps
| +--rw ipv4-static-ftn-entries
| | +--rw ipv4-static-ftn-entry* [fec-prefix pushed-label nexthop-ip-address out-interface-name]
| |    +--rw fec-prefix            -> ../config/fec-prefix
| |    +--rw pushed-label          -> ../config/pushed-label
| |    +--rw nexthop-ip-address    -> ../config/nexthop-ip-address
| |    +--rw out-interface-name    -> ../config/out-interface-name
| |    +--rw config
| |    | +--rw fec-prefix?          cml-data-types:cml_ipv4_prefix_t
| |    | +--rw pushed-label?        uint32
| |    | +--rw nexthop-ip-address?  inet:ipv4-address
| |    | +--rw out-interface-name?  -> /ipi-interface:interfaces/interface/name
| |    +--ro state
| |      +--ro fec-prefix?          cml-data-types:cml_ipv4_prefix_t
| |      +--ro pushed-label?        uint32
| |      +--ro nexthop-ip-address?  inet:ipv4-address
| |      +--ro out-interface-name?  -> /ipi-interface:interfaces/interface/name
| +--rw static-ftn-tunnels
| | +--rw static-ftn-tunnel* [tunnel-id fec-prefix pushed-label nexthop-ip-address out-interface-name is-primary]
{feature-list:NOT_HAVE_MPLS_TUNNEL}?
| |    +--rw tunnel-id             -> ../config/tunnel-id
| |    +--rw fec-prefix            -> ../config/fec-prefix
| |    +--rw pushed-label          -> ../config/pushed-label
| |    +--rw nexthop-ip-address    -> ../config/nexthop-ip-address
| |    +--rw out-interface-name    -> ../config/out-interface-name
| |    +--rw is-primary            -> ../config/is-primary
| |    +--rw config
| |    | +--rw tunnel-id?           uint32
| |    | +--rw fec-prefix?          cml-data-types:cml_ip_prefix_t
| |    | +--rw pushed-label?        uint32
| |    | +--rw nexthop-ip-address?  inet:ip-address
| |    | +--rw out-interface-name?  -> /ipi-interface:interfaces/interface/name
| |    | +--rw is-primary?          ipi-mpls-types:mpls_vpls_ftn_entry_lsp_type_t
| |    +--ro state
| |      +--ro tunnel-id?           uint32
| |      +--ro fec-prefix?          cml-data-types:cml_ip_prefix_t
```


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```
| |       +--ro pushed-label?         uint32
| |       +--ro nexthop-ip-address?   inet:ip-address
| |       +--ro out-interface-name?   -> /ipi-interface:interfaces/interface/name
| |       +--ro is-primary?           ipi-mpls-types:mpls_vpls_ftn_entry_lsp_type_t
| +--rw static-ilm-entries
|    +--rw static-ilm-entry* [incoming-label]
|       +--rw incoming-label    -> ../config/incoming-label
|       +--rw config
|       | +--rw incoming-label?   uint32
|       +--ro state
|       | +--ro incoming-label?   uint32
|       +--rw pop
|       | +--rw config!
|       | | +--rw enable-pop-label    empty
|       | +--ro state
|       |    +--ro enable-pop-label    empty
|       +--rw swaps
|          +--rw swap* [in-interface-name swapped-label out-interface-name nexthop-ip-address fec-prefix]
|             +--rw in-interface-name     -> ../config/in-interface-name
|             +--rw swapped-label         -> ../config/swapped-label
|             +--rw out-interface-name    -> ../config/out-interface-name
|             +--rw nexthop-ip-address    -> ../config/nexthop-ip-address
|             +--rw fec-prefix            -> ../config/fec-prefix
|             +--rw config
|             | +--rw in-interface-name?    string
|             | +--rw swapped-label?        uint32
|             | +--rw out-interface-name?   -> /ipi-interface:interfaces/interface/name
|             | +--rw nexthop-ip-address?   inet:ip-address
|             | +--rw fec-prefix?           cml-data-types:cml_ip_prefix_t
|             +--ro state
|                +--ro in-interface-name?    string
|                +--ro swapped-label?        uint32
|                +--ro out-interface-name?   -> /ipi-interface:interfaces/interface/name
|                +--ro nexthop-ip-address?   inet:ip-address
|                +--ro fec-prefix?           cml-data-types:cml_ip_prefix_t
+--rw global
```

```
      +--rw config
      |  +--rw mpls-aware-rib-disabled?   empty {feature-list:HAVE_MPLS_AWARE_RIB}?
      +--ro state
        +--ro mpls-aware-rib-disabled?   empty {feature-list:HAVE_MPLS_AWARE_RIB}?
augment /ipi-mpls:mpls:
  +--ro vrf* [vrf-name] {feature-list:HAVE_VRF}?
    +--ro vrf-name    -> ../rib/vrf-name
    +--ro rib
      +--ro ftn-table
      |  +--ro ipv4-ftn-entry* [fec-prefix owner lsp-type tunnel-id]
      |  |  +--ro fec-prefix     -> ../state/fec-prefix
      |  |  +--ro owner          -> ../state/owner
      |  |  +--ro lsp-type       -> ../state/lsp-type
      |  |  +--ro tunnel-id      -> ../state/tunnel-id
      |  |  +--ro nhlfe-entry* [out-interface out-label]
      |  |  |  +--ro out-interface    -> ../state/out-interface
      |  |  |  +--ro out-label        -> ../state/out-label
      |  |  |  +--ro state
      |  |  |     +--ro out-interface?           -> /ipi-interface:interfaces/interface/name
      |  |  |     +--ro out-label?               uint32
      |  |  |     +--ro nexthop-address?         inet:ipv4-address
      |  |  |     +--ro nhlfe-type?              ipi-mpls-types:mpls_rib_nhlfe_type_t
      |  |  |     +--ro xc-index?                uint32
      |  |  |     +--ro xc-type?                 ipi-mpls-types:mpls_rib_xc_type_t
      |  |  |     +--ro nhlfe-index?             uint32
      |  |  |     +--ro administrative-status?   ipi-mpls-types:mpls_rib_entry_admin_status_t
      |  |  |     +--ro oper-status?             ipi-mpls-types:mpls_rib_entry_oper_status_t
      |  |  |     +--ro nhlfe-owner?             ipi-mpls-types:mpls_rib_entry_owner_t
      |  |  |     +--ro is-stale?                boolean
      |  |  |     +--ro label-op-code?           ipi-mpls-types:mpls_rib_label_op_code_t
      |  |  |     +--ro in-interface?            string
      |  |  |     +--ro in-label?                uint32
      |  |  +--ro state
      |  |     +--ro fec-prefix?            cml-data-types:cml_ipv4_addr_prefix_t
      |  |     +--ro owner?                 ipi-mpls-types:mpls_rib_entry_owner_t
      |  |     +--ro lsp-type?              ipi-mpls-types:mpls_rib_lsp_type_t
```


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```
| |    +--ro unique-nhlfe-ix?        uint32
| |    +--ro ftn-index?              uint32
| |    +--ro is-primary?             boolean
| |    +--ro route-distance?         uint8
| |    +--ro redirect-action-type?   ipi-mpls-types:mpls_rib_action_type_t
| |    +--ro qos-exp-bits?           uint32
| |    +--ro is-entropy-label?       boolean
| |    +--ro in-dscp-class-name?     string
| |    +--ro tunnel-id?              uint32
| |    +--ro protected-lsp-id?       uint32
| |    +--ro qos-resource-id?        uint32
| |    +--ro color?                  uint32 {feature-list:HAVE_SERVICE_MAPPING}?
| |    +--ro tunnel-policy-name?     string {feature-list:HAVE_SERVICE_MAPPING}?
| |    +--ro rsvp-multipath-name?    string {feature-list:HAVE_RSVP_MULTIPATH}?
| |    +--ro row-status?             string
| |    +--ro state?                  string
| |    +--ro create-time?            cml-data-types:cml_line_t
| |    +--ro up-time?                cml-data-types:cml_line_t
| |    +--ro last-update?            cml-data-types:cml_line_t
| |    +--ro description?            string
| +--ro ipv6-ftn-entry* [fec-prefix6 owner lsp-type tunnel-id] {feature-list:HAVE_IPV6}?
|    +--ro fec-prefix6    -> ../state/fec-prefix6
|    +--ro owner          -> ../state/owner
|    +--ro lsp-type       -> ../state/lsp-type
|    +--ro tunnel-id      -> ../state/tunnel-id
|    +--ro nhlfe-entry* [out-interface out-label]
|    | +--ro out-interface    -> ../state/out-interface
|    | +--ro out-label        -> ../state/out-label
|    | +--ro state
|    |    +--ro out-interface?          -> /ipi-interface:interfaces/interface/name
|    |    +--ro out-label?              uint32
|    |    +--ro nexthop-address?        inet:ip-address
|    |    +--ro nhlfe-type?             ipi-mpls-types:mpls_rib_nhlfe_type_t
|    |    +--ro administrative-status?  ipi-mpls-types:mpls_rib_entry_admin_status_t
|    |    +--ro oper-status?            ipi-mpls-types:mpls_rib_entry_oper_status_t
|    |    +--ro nhlfe-owner?            ipi-mpls-types:mpls_rib_entry_owner_t
```

```
|    |    +--ro is-stale?              boolean
|    |    +--ro label-op-code?         ipi-mpls-types:mpls_rib_label_op_code_t
|    |    +--ro in-interface?          string
|    |    +--ro in-label?              uint32
|    +--ro state
|       +--ro fec-prefix6?          cml-data-types:cml_ipv6_prefix_t
|       +--ro owner?                ipi-mpls-types:mpls_rib_entry_owner_t
|       +--ro lsp-type?             ipi-mpls-types:mpls_rib_lsp_type_t
|       +--ro unique-nhlfe-ix?      uint32
|       +--ro ftn-index?            uint32
|       +--ro is-primary?           boolean
|       +--ro route-distance?       uint8
|       +--ro redirect-action-type?   ipi-mpls-types:mpls_rib_action_type_t
|       +--ro qos-exp-bits?         uint32
|       +--ro is-entropy-label?     boolean
|       +--ro in-dscp-class-name?     string
|       +--ro tunnel-id?            uint32
|       +--ro protected-lsp-id?     uint32
|       +--ro qos-resource-id?      uint32
|       +--ro color?                uint32 {feature-list:HAVE_SERVICE_MAPPING}?
|       +--ro tunnel-policy-name?     string {feature-list:HAVE_SERVICE_MAPPING}?
|       +--ro rsvp-multipath-name?    string {feature-list:HAVE_RSVP_MULTIPATH}?
|       +--ro row-status?           string
|       +--ro state?                string
|       +--ro create-time?          cml-data-types:cml_line_t
|       +--ro up-time?              cml-data-types:cml_line_t
|       +--ro last-update?          cml-data-types:cml_line_t
|       +--ro description?          string
      +--ro vrf-name?    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name {feature-list:HAVE_VRF}?
```

ipi-mpls

```
+--rw mpls
   +--rw l2vpn
```


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```
| +--rw customer-service-templates
| | +--rw customer-service-template* [name] {feature-list:HAVE_VPLS_OR_HAVE_MPLS_VC}?
| |    +--rw name           -> ../config/name
| |    +--rw config
| |    | +--rw name?                          string
| |    | +--rw match-all?                     empty
| |    | +--rw match-single-tag-outer-vlan-range*   string
| |    | +--rw match-untagged?                empty
| |    +--ro state
| |    | +--ro name?                          string
| |    | +--ro match-all?                     empty
| |    | +--ro match-single-tag-outer-vlan-range*   string
| |    | +--ro match-untagged?                empty
| |    +--rw double-tags
| |    | +--rw double-tag* [match-outer-vlan-id]
| |    |    +--rw match-outer-vlan-id    -> ../config/match-outer-vlan-id
| |    |    +--rw config
| |    |    | +--rw match-outer-vlan-id?   uint16
| |    |    | +--rw match-inner-vlan-id*   string
| |    |    +--ro state
| |    |       +--ro match-outer-vlan-id?   uint16
| |    |       +--ro match-inner-vlan-id*   string
| |    +--rw action-types
| |    | +--rw action-type* [vlan-action-type]
| |    |    +--rw vlan-action-type    -> ../config/vlan-action-type
| |    |    +--rw config
| |    |    | +--rw vlan-action-type?         ipi-mpls-types:mpls_l2vpn_vlan_action_type_t
| |    |    | +--rw outer-vlan-identifier?    uint16
| |    |    | +--rw tag-protocol-identifier?   ipi-mpls-types:mpls_svc_tpid_t
| |    |    +--ro state
| |    |       +--ro vlan-action-type?         ipi-mpls-types:mpls_l2vpn_vlan_action_type_t
| |    |       +--ro outer-vlan-identifier?    uint16
| |    |       +--ro tag-protocol-identifier?   ipi-mpls-types:mpls_svc_tpid_t
| |    +--ro map-list* [vpls-name] {feature-list:HAVE_VPLS}?
| |       +--ro vpls-name    -> ../state/vpls-name
| |       +--ro state
```

```
  | |          +--ro vpls-name?                string
  | |          +--ro error-status?             ipi-mpls-types:mpls_l2vpn_serv_temp_error_status_t
  | |          +--ro binding-interface-name?   string
  | +--rw access-circuit-groups
  |    +--rw access-circuit-group* [group-name] {feature-list:HAVE_MPLS_VC}?
  |       +--rw group-name    -> ../config/group-name
  |       +--rw config
  |       |  +--rw group-name?         string
  |       |  +--rw group-identifier    uint32
  |       +--ro state
  |          +--ro group-name?         string
  |          +--ro group-identifier    uint32
  +--rw global
  | +--rw config
  | | +--rw local-packet-handling?     empty
  | | +--rw lsp-stitching?             empty
  | | +--rw propagate-ttl?             empty
  | | +--rw ingress-ttl-value?         uint8
  | | +--rw lsp-model-uniform?         empty
  | | +--rw lsp-encap-dscp-preserve?   empty {feature-list:HAVE_DUNE}?
  | | +--rw propagate-exp-to-cos?      empty {feature-list:HAVE_DNX}?
  | | +--rw l2vpn-nw-statistics?       empty {feature-list:HAVE_DNX,feature-list:HAVE_MPLS_STATS}?
  | | +--rw six-pe-dscp-preserve?      ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_6PE,feature-
list:HAVE_DUNE}?
  | | +--rw suppress-oper-log-mpls?    ipi-mpls-types:mpls_services_t
  | | +--rw l2vpn-stitching?           empty {feature-list:HAVE_DUNE,feature-list:HAVE_L2VPN_STITCHING}?
  | +--ro state
  | | +--ro local-packet-handling?     empty
  | | +--ro lsp-stitching?             empty
  | | +--ro propagate-ttl?             empty
  | | +--ro ingress-ttl-value?         uint8
  | | +--ro lsp-model-uniform?         empty
  | | +--ro lsp-encap-dscp-preserve?   empty {feature-list:HAVE_DUNE}?
  | | +--ro propagate-exp-to-cos?      empty {feature-list:HAVE_DNX}?
  | | +--ro l2vpn-nw-statistics?       empty {feature-list:HAVE_DNX,feature-list:HAVE_MPLS_STATS}?
  | | +--ro six-pe-dscp-preserve?      ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_6PE,feature-
list:HAVE_DUNE}?
```


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```
  | | +--ro suppress-oper-log-mpls?    ipi-mpls-types:mpls_services_t
  | | +--ro l2vpn-stitching?           empty {feature-list:HAVE_DUNE,feature-list:HAVE_L2VPN_STITCHING}?
  | | +--ro counters
  | |    +--ro label-entries?   yang:counter32
  | +--ro graceful-restart {feature-list:HAVE_RESTART}?
  |    +--ro rsvp
  |    | +--ro state
  |    |    +--ro graceful-restart-state?   ipi-mpls-types:mpls_graceful_restart_status_t
  |    |    +--ro remaining-restart-time?   uint32
  |    |    +--ro disconnected-time?        yang:date-and-time
  |    +--ro ldp
  |       +--ro state
  |          +--ro graceful-restart-state?   ipi-mpls-types:mpls_graceful_restart_status_t
  |          +--ro remaining-restart-time?   uint32
  |          +--ro disconnected-time?        yang:date-and-time
  +--rw interfaces
  | +--rw interface* [name]
  |    +--rw name                    -> ../config/name
  |    +--rw config
  |    | +--rw name?   -> /ipi-interface:interfaces/interface/name
  |    +--ro state
  |    | +--ro name?   -> /ipi-interface:interfaces/interface/name
  |    +--rw label-switching
  |    | +--rw config!
  |    | | +--rw enable        empty
  |    | | +--rw label-space?   uint16
  |    | +--ro state
  |    |    +--ro enable        empty
  |    |    +--ro label-space?   uint16
  |    +--rw mpls-interface-bandwidth
  |       +--rw config
  |       | +--rw admin-group-name*                -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
  |       | +--rw admin-group-anomaly-name*        -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
  |       | +--rw extended-admin-group-name*       -> /ipi-global-te:extended-admin-groups/extended-admin-group/
name {feature-list:HAVE_TE}?
```

```
    |       | +--rw extended-admin-group-anomaly-name*   -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_TE}?
    |       | +--rw bandwidth?                      string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
    |       | +--rw reservable-bandwidth?              string {feature-list:HAVE_TE}?
    |       | +--rw shared-risk-link-group*            uint32 {feature-list:HAVE_SRLG}?
    |       | +--rw uni-available-bandwidth?           string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
    |       | +--rw uni-residual-bandwidth?            string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
    |       | +--rw uni-utilized-bandwidth?          string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
    |       +--ro state
    |         +--ro admin-group-name*                -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
    |         +--ro admin-group-anomaly-name*          -> /ipi-global-te:admin-groups/admin-group/name {feature-
list:HAVE_TE}?
    |         +--ro extended-admin-group-name*         -> /ipi-global-te:extended-admin-groups/extended-admin-group/
name {feature-list:HAVE_TE}?
    |         +--ro extended-admin-group-anomaly-name*   -> /ipi-global-te:extended-admin-groups/extended-admin-
group/name {feature-list:HAVE_TE}?
    |         +--ro bandwidth?                      string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
    |         +--ro reservable-bandwidth?              string {feature-list:HAVE_TE}?
    |         +--ro shared-risk-link-group*            uint32 {feature-list:HAVE_SRLG}?
    |         +--ro uni-available-bandwidth?           string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
    |         +--ro uni-residual-bandwidth?            string {feature-list:HAVE_TE,feature-
list:NOT_IF_BANDWIDTH_INFO}?
    |         +--ro uni-utilized-bandwidth?          string {feature-list:HAVE_TE,feature-list:NOT_IF_BANDWIDTH_INFO}?
    +--rw label-spaces
    |  +--rw label-space* [label-space-name]
    |     +--rw label-space-name       -> ../config/label-space-name
    |     +--rw config
    |     |  +--rw label-space-name?   uint16
    |     +--ro state
    |     |  +--ro label-space-name?   uint16
    |     +--rw global-label-range
    |     |  +--rw config!
    |     |  |  +--rw min-label    uint32
    |     |  |  +--rw max-label    uint32
    |     |  +--ro state
```


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```
|    |    +--ro min-label    uint32
|    |    +--ro max-label    uint32
|    +--rw module-label-ranges
|       +--rw module-label-range* [module-name]
|          +--rw module-name    -> ../config/module-name
|          +--rw config
|          | +--rw module-name?   ipi-mpls-types:mpls_module_t
|          | +--rw min-label      uint32
|          | +--rw max-label      uint32
|          +--ro state
|             +--ro module-name?   ipi-mpls-types:mpls_module_t
|             +--ro min-label      uint32
|             +--ro max-label      uint32
+--rw ecmp
| +--rw config
| | +--rw ftn-ecmp-protocol?   ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?
| | +--rw ilm-ecmp-protocol?   ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?
| +--ro state
|    +--ro ftn-ecmp-protocol?   ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?
|    +--ro ilm-ecmp-protocol?   ipi-mpls-types:mpls_ecmp_protocol_t {feature-list:HAVE_MPLS_ECMP}?
+--rw six-pe-tunnel-policies {feature-list:HAVE_SERVICE_MAPPING,feature-list:HAVE_6PE}?
| +--rw six-pe-tunnel-policy* [name]
|    +--rw name      -> ../config/name
|    +--rw config
|    | +--rw name?   string
|    +--ro state
|       +--ro name?   string
+--rw bandwidth-classes
  +--rw bandwidth-class* [name] {feature-list:HAVE_TE}?
     +--rw name          -> ../config/name
     +--rw config
     | +--rw name?   string
     +--ro state
     | +--ro name?   string
     +--rw properties
        +--rw config!
```

```
          |  +--rw max-bandwidth     string
          |  +--rw setup-priority    uint8
          |  +--rw hold-priority     uint8
          +--ro state
             +--ro max-bandwidth     string
             +--ro setup-priority    uint8
             +--ro hold-priority     uint8
```

ipi-mrib

```
  +--rw mrib
     +--rw ipv4
     |  +--rw vrfs
     |  |  +--rw vrf* [vrf-name]
     |  |     +--rw vrf-name            -> ../config/vrf-name
     |  |     +--rw config
     |  |     |  +--rw vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
     |  |     |  +--rw multicast-routing-enable?   empty
     |  |     +--ro state
     |  |     |  +--ro counters
     |  |     |  |  +--ro total-multicast-routes?         yang:counter32
     |  |     |  |  +--ro dense-mode-multicast-routes?    yang:counter32
     |  |     |  |  +--ro sparse-mode-multicast-routes?   yang:counter32
     |  |     |  |  +--ro no-cache-received?              yang:counter32
     |  |     |  |  +--ro no-cache-sent?                  yang:counter32
     |  |     |  |  +--ro wrong-VIF-received?             yang:counter32
     |  |     |  |  +--ro wrong-VIF-sent?                 yang:counter32
     |  |     |  |  +--ro whole-packet-received?          yang:counter32
     |  |     |  |  +--ro whole-packet-sent?              yang:counter32
     |  |     |  |  +--ro immediate-stat-updates-sent?    yang:counter32
     |  |     |  |  +--ro timed-stat-updates-sent?        yang:counter32
```


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```
    | |    | | +--ro register-packets-sent?          yang:counter32
    | |    | | +--ro register-acks-received?         yang:counter32
    | |    | | +--ro register-nacks-received?        yang:counter32
    | |    | | +--ro no-cache-receive-rate?          decimal64
    | |    | | +--ro register-packet-sent-rate?      decimal64
    | |    | +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    | |    | +--ro multicast-routing-enable?   empty
    | |    | +--ro stats-poll-expiry-time?     string
    | |    +--rw route-limit
    | |    | +--rw config
    | |    | | +--rw maximum-routes?      uint32
    | |    | | +--rw warning-threshold?   uint32
    | |    | +--ro state
    | |    |    +--ro maximum-routes?      uint32
    | |    |    +--ro warning-threshold?   uint32
    | |    +--rw debug
    | |    | +--rw config
    | |    | | +--rw options?   ipi-mrib-types:mrib_debug_t
    | |    | +--ro state
    | |    |    +--ro options?                ipi-mrib-types:mrib_debug_t
    | |    |    +--ro terminal-debug-status?   ipi-mrib-types:mrib_debug_t
    | |    +--ro multicast-routes
    | |      +--ro multicast-route* [source group]
    | |         +--ro source                -> ../state/source
    | |         +--ro group                 -> ../state/group
    | |         +--ro state
    | |         | +--ro counters
    | |         | | +--ro packets-forwarded?    yang:counter32
    | |         | | +--ro bytes-forwarded?      yang:counter32
    | |         | | +--ro wrong-VIF-sent?       yang:counter32
    | |         | | +--ro wrong-VIF-received?   yang:counter32
    | |         | +--ro source?                  inet:ip-address
    | |         | +--ro group?                   inet:ip-address
    | |         | +--ro incoming-interface?      string
    | |         | +--ro rpf-address?             inet:ip-address
    | |         | +--ro route-type?              ipi-mrib-types:mrib_route_type_t
```

```
   | |          | +--ro uptime?                  string
   | |          | +--ro stats-poll-expiry-time?   string
   | |          | +--ro immediate-stats?          empty
   | |          | +--ro timed-stats?              empty
   | |          | +--ro forwarder-installed?      empty
   | |          +--ro outgoing-interfaces
   | |            +--ro outgoing-interface* [name]
   | |               +--ro name     -> ../state/name
   | |               +--ro state
   | |                  +--ro name?          -> /ipi-interface:interfaces/interface/name
   | |                  +--ro time-to-live?   uint8
   | +--rw interfaces
   |    +--rw interface* [name]
   |       +--rw name      -> ../config/name
   |       +--rw config
   |       | +--rw name?           -> /ipi-interface:interfaces/interface/name
   |       | +--rw ttl-threshold?   uint8
   |       +--ro state
   |          +--ro name?            -> /ipi-interface:interfaces/interface/name
   |          +--ro ttl-threshold?    uint8
   |          +--ro local-address?    inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
   |          +--ro remote-address?   inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
   |          +--ro uptime?           string
   |          +--ro module-name?      string
   |          +--ro vif-index?        uint32
   +--rw ipv6
      +--rw vrfs
      | +--rw vrf* [vrf-name]
      |    +--rw vrf-name           -> ../config/vrf-name
      |    +--rw config
      |    | +--rw vrf-name?                -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
      |    | +--rw multicast-routing-enable?   empty
      |    +--ro state
      |    | +--ro counters
      |    | | +--ro total-multicast-routes?         yang:counter32
      |    | | +--ro dense-mode-multicast-routes?    yang:counter32
```


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```
|    | | +--ro sparse-mode-multicast-routes?   yang:counter32
|    | | +--ro no-cache-received?              yang:counter32
|    | | +--ro no-cache-sent?                  yang:counter32
|    | | +--ro wrong-VIF-received?             yang:counter32
|    | | +--ro wrong-VIF-sent?                 yang:counter32
|    | | +--ro whole-packet-received?          yang:counter32
|    | | +--ro whole-packet-sent?              yang:counter32
|    | | +--ro immediate-stat-updates-sent?    yang:counter32
|    | | +--ro timed-stat-updates-sent?        yang:counter32
|    | | +--ro register-packets-sent?          yang:counter32
|    | | +--ro register-acks-received?         yang:counter32
|    | | +--ro register-nacks-received?        yang:counter32
|    | | +--ro no-cache-receive-rate?          decimal64
|    | | +--ro register-packet-sent-rate?      decimal64
|    | +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
|    | +--ro multicast-routing-enable?   empty
|    | +--ro stats-poll-expiry-time?     string
|    +--rw route-limit
|    | +--rw config
|    | | +--rw maximum-routes?      uint32
|    | | +--rw warning-threshold?   uint32
|    | +--ro state
|    |    +--ro maximum-routes?      uint32
|    |    +--ro warning-threshold?   uint32
|    +--rw debug
|    | +--rw config
|    | | +--rw options?   ipi-mrib-types:mrib_debug_t
|    | +--ro state
|    |    +--ro options?                ipi-mrib-types:mrib_debug_t
|    |    +--ro terminal-debug-status?   ipi-mrib-types:mrib_debug_t
|    +--ro multicast-routes
|       +--ro multicast-route* [source group]
|          +--ro source                -> ../state/source
|          +--ro group                 -> ../state/group
|          +--ro state
|          |  +--ro counters
```

```
|          | |  +--ro packets-forwarded?    yang:counter32
|          | |  +--ro bytes-forwarded?      yang:counter32
|          | |  +--ro wrong-VIF-sent?       yang:counter32
|          | |  +--ro wrong-VIF-received?   yang:counter32
|          | +--ro source?                  inet:ip-address
|          | +--ro group?                   inet:ip-address
|          | +--ro incoming-interface?      string
|          | +--ro rpf-address?             inet:ip-address
|          | +--ro route-type?              ipi-mrib-types:mrib_route_type_t
|          | +--ro uptime?                  string
|          | +--ro stats-poll-expiry-time?  string
|          | +--ro immediate-stats?         empty
|          | +--ro timed-stats?             empty
|          | +--ro forwarder-installed?     empty
|          +--ro outgoing-interfaces
|            +--ro outgoing-interface* [name]
|              +--ro name     -> ../state/name
|              +--ro state
|                +--ro name?          -> /ipi-interface:interfaces/interface/name
|                +--ro time-to-live?  uint8
+--rw interfaces
  +--rw interface* [name]
    +--rw name      -> ../config/name
    +--rw config
    | +--rw name?           -> /ipi-interface:interfaces/interface/name
    | +--rw ttl-threshold?  uint8
    +--ro state
      +--ro name?            -> /ipi-interface:interfaces/interface/name
      +--ro ttl-threshold?   uint8
      +--ro local-address?   inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
      +--ro remote-address?  inet:ip-address {feature-list:HAVE_MRIB_IPV4}?
      +--ro uptime?          string
      +--ro module-name?     string
      +--ro vif-index?       uint32

rpcs:
```


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```
+---x mrib-ipv4-terminal-debug-on {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?                string
|     +---w terminal-debug-options    ipi-mrib-types:mrib_debug_t
+---x mrib-ipv4-terminal-debug-off {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?                string
|     +---w terminal-debug-options    ipi-mrib-types:mrib_debug_t
+---x mrib-ipv4-clear-mroute-all {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?     string
|     +---w all-routes    empty
+---x mrib-ipv4-clear-mroute-group {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?        string
|     +---w group-address    inet:ipv4-address
+---x mrib-ipv4-clear-mroute-source-group {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?         string
|     +---w source-address    inet:ipv4-address
|     +---w group-address     inet:ipv4-address
+---x mrib-ipv4-clear-mroute-statistics-all {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?     string
|     +---w all-routes    empty
+---x mrib-ipv4-clear-mroute-statistics-group {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?        string
|     +---w group-address    inet:ipv4-address
+---x mrib-ipv4-clear-mroute-statistics-source-group {feature-list:HAVE_MRIBD}?
|  +---w input
|     +---w vrf-name?         string
|     +---w source-address    inet:ipv4-address
|     +---w group-address     inet:ipv4-address
+---x mrib-ipv4-snmp-restart {feature-list:HAVE_SNMP}?
+---x mrib-ipv6-terminal-debug-on {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
```

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```
  |  +---w input
  |     +---w vrf-name?                string
  |     +---w terminal-debug-options    ipi-mrib-types:mrib_debug_t
  +---x mrib-ipv6-terminal-debug-off {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
  |  +---w input
  |     +---w vrf-name?                string
  |     +---w terminal-debug-options    ipi-mrib-types:mrib_debug_t
  +---x mrib-ipv6-clear-mroute-all {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
  |  +---w input
  |     +---w vrf-name      string
  |     +---w all-routes    empty
  +---x mrib-ipv6-clear-mroute-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
  |  +---w input
  |     +---w vrf-name         string
  |     +---w group-address    inet:ipv6-address
  +---x mrib-ipv6-clear-mroute-source-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
  |  +---w input
  |     +---w vrf-name          string
  |     +---w source-address    inet:ipv6-address
  |     +---w group-address     inet:ipv6-address
  +---x mrib-ipv6-clear-mroute-statistics-all {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
  |  +---w input
  |     +---w vrf-name      string
  |     +---w all-routes    empty
  +---x mrib-ipv6-clear-mroute-statistics-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
  |  +---w input
  |     +---w vrf-name         string
  |     +---w group-address    inet:ipv6-address
  +---x mrib-ipv6-clear-mroute-statistics-source-group {feature-list:HAVE_MRIBD,feature-list:HAVE_MCAST_IPV6}?
     +---w input
        +---w vrf-name          string
        +---w source-address    inet:ipv6-address
        +---w group-address     inet:ipv6-address
```


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ipi-neighbor-discovery

```
+--rw neighbor-discovery
  +--rw entries
  |  +--rw entry* [ipv6-address interface-name]
  |     +--rw ipv6-address      -> ../config/ipv6-address
  |     +--rw interface-name    -> ../config/interface-name
  |     +--rw config
  |     |  +--rw ipv6-address?     inet:ipv6-address
  |     |  +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
  |     |  +--rw mac-address       cml-data-types:cml_mac_addr_t
  |     +--ro state
  |        +--ro ipv6-address?        inet:ipv6-address
  |        +--ro interface-name?      -> /ipi-interface:interfaces/interface/name
  |        +--ro mac-address          cml-data-types:cml_mac_addr_t
  |        +--ro neighbor-age?        string
  |        +--ro neighbor-source?     ipi-nd-types:ndd_nd_src_type_t
  |        +--ro neighbor-state?      ipi-nd-types:ndd_nd_state_t
  |        +--ro neighbor-if-state?   ipi-nd-types:ndd_nd_if_type_t
  +--rw debug
  |  +--rw config
  |  |  +--rw enable?   empty
  |  +--ro state
  |     +--ro enable?                 empty
  |     +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
  +--rw interfaces
  |  +--rw interface* [name]
  |     +--rw name      -> ../config/name
  |     +--rw config
  |     |  +--rw name?                -> /ipi-interface:interfaces/interface/name
  |     |  +--rw nd-ageing-timeout?     uint16
  |     |  +--rw nd-reachable-time?     uint32
  |     |  +--rw no-ip-unreachable?     empty
  |     |  +--rw no-ipv6-unreachable?   empty
  |     +--ro state
  |        +--ro name?                -> /ipi-interface:interfaces/interface/name
```

```
  |       +--ro nd-ageing-timeout?     uint16
  |       +--ro nd-reachable-time?     uint32
  |       +--ro no-ip-unreachable?     empty
  |       +--ro no-ipv6-unreachable?   empty
  +--ro dynamic-neighbor-discovery* [vrf-name]
    +--ro vrf-name             string
    +--ro entry* [ipv6-address]
    |  +--ro ipv6-address         inet:ipv6-address
    |  +--ro mac-address?         cml-data-types:cml_mac_addr_t
    |  +--ro interface-name?      string
    |  +--ro neighbor-age?        string
    |  +--ro neighbor-source?     ipi-nd-types:ndd_nd_src_type_t
    |  +--ro neighbor-state?      ipi-nd-types:ndd_nd_state_t
    |  +--ro neighbor-if-state?   ipi-nd-types:ndd_nd_if_type_t
    +--ro adjacency-summary
      +--ro resolved-arp?     uint32
      +--ro incomplete-arp?   uint32
      +--ro unknown-arp?      uint32
      +--ro total-arp?        uint32

rpcs:
  +---x nd-terminal-debug-on {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
  +---x nd-terminal-debug-off {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
  +---x clear-ipv6-nd-entry {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
  |  +---w input
  |     +---w ipv6-address?   cml-data-types:cml_ipv6_prefix_t
  |     +---w vrf-name?       string
  +---x clear-ipv6-nd-entry-per-interface {feature-list:HAVE_L3,feature-list:HAVE_IPV6,feature-list:HAVE_NDD}?
     +---w input
       +---w if-name     string
       +---w vrf-name?   string
```


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ipi-network-instance

```
+--rw network-instances
  +--rw network-instance* [instance-name instance-type]
    +--rw instance-name    -> ../config/instance-name
    +--rw instance-type    -> ../config/instance-type
    +--rw config
    |  +--rw instance-name?   string
    |  +--rw instance-type?   ipi-network-instance-types:net_inst_type_t
    +--ro state
      +--ro instance-name?   string
      +--ro instance-type?   ipi-network-instance-types:net_inst_type_t
```

ipi-network-services-manager

```
+--rw network-services-manager
  +--rw debug
    +--rw nsm
    |  +--rw config
    |  |  +--rw options?   ipi-network-services-manager-types:nsm_debug_t
    |  +--ro state
    |     +--ro options?   ipi-network-services-manager-types:nsm_debug_t
    +--rw pkt-mgr
    |  +--rw config
    |  |  +--rw options?   ipi-network-services-manager-types:nsm_pkt_mgr_debug_t {feature-list:HAVE_L2}?
    |  +--ro state
    |     +--ro options?   ipi-network-services-manager-types:nsm_pkt_mgr_debug_t {feature-list:HAVE_L2}?
    +--rw hsl {feature-list:HAVE_USER_HSL}?
    |  +--rw hsl-module* [module-name]
    |     +--rw module-name    -> ../config/module-name
    |     +--rw config
    |     |  +--rw module-name?   ipi-network-services-manager-types:hsl_debug_module_t
    |     |  +--rw level          ipi-network-services-manager-types:hsl_debug_level_t
    |     +--ro state
```

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```
      |       +--ro module-name?   ipi-network-services-manager-types:hsl_debug_module_t
      |       +--ro level          ipi-network-services-manager-types:hsl_debug_level_t
      +--ro terminal
        +--ro nsm
        | +--ro state
        |    +--ro terminal-debug-status?   ipi-network-services-manager-types:nsm_debug_t
        +--ro pkt-mgr
          +--ro state
             +--ro terminal-debug-status?   ipi-network-services-manager-types:nsm_pkt_mgr_debug_t {feature-
list:HAVE_L2}?

 rpcs:
   +---x nsm-terminal-debug-on
   | +---w input
   |    +---w terminal-debug-options    ipi-network-services-manager-types:nsm_exec_debug_t
   +---x nsm-terminal-debug-off
   | +---w input
   |    +---w terminal-debug-options    ipi-network-services-manager-types:nsm_exec_debug_t
   +---x hsl-terminal-debug-on {feature-list:NOT_HAVE_SWFWDR,feature-list:HAVE_HAL}?
   | +---w input
   |    +---w module-name    ipi-network-services-manager-types:hsl_debug_module_t
   |    +---w level          ipi-network-services-manager-types:hsl_debug_level_t
   +---x hsl-terminal-debug-off {feature-list:NOT_HAVE_SWFWDR,feature-list:HAVE_HAL}?
   | +---w input
   |    +---w module-name    ipi-network-services-manager-types:hsl_debug_module_t
   |    +---w level          ipi-network-services-manager-types:hsl_debug_level_t
   +---x pktmgr-terminal-debug-on {feature-list:HAVE_L2}?
   | +---w input
   |    +---w terminal-debug-options    ipi-network-services-manager-types:nsm_pkt_mgr_debug_t
   +---x pktmgr-terminal-debug-off {feature-list:HAVE_L2}?
   +---x pktmgr-debug-statistics-enable
   +---x pktmgr-debug-statistics-disable
   +---x pktmgr-debug-statistics-get
   +---x pktmgr-debug-error-statistics-get
   | +---w input
   |    +---w debug-error-statistics    ipi-network-services-manager-types:nsm_pktmgr_statistics_type_t
   +---x clear-nsm-ipc-statistics {feature-list:HAVE_ASYNC}?
```


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```
  +---x clear-nsm-server-ipc-statistics
  +---x nsm-snmp-restart {feature-list:HAVE_SNMP}?
```

ipi-nos-update-notifications

```
notifications:
  +---n nos-image-upgrade-done
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro message?      string
```

ipi-ntp

```
+--rw ntp
   +--rw vrfs
   |  +--rw vrf* [vrf-name]
   |     +--rw vrf-name                -> ../config/vrf-name
   |     +--rw config
   |     |  +--rw vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
   |     |  +--rw feature-enable?   empty
   |     |  +--rw disable-ntp?      empty
   |     |  +--rw enable-logging?   empty
   |     +--ro state
   |     |  +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
   |     |  +--ro feature-enable?   empty
   |     |  +--ro disable-ntp?      empty
   |     |  +--ro enable-logging?   empty
   |     +--rw ref-clock-master
   |     |  +--rw config!
   |     |  |  +--rw enable-local-master    empty
   |     |  |  +--rw local-stratum?         uint8
   |     |  +--ro state
   |     |     +--ro enable-local-master    empty
```

```
|    |    +--ro local-stratum?         uint8
|    +--rw authentication
|    |  +--rw config
|    |  |  +--rw enable-ntp-auth?    empty
|    |  |  +--rw ntp-trusted-keys*   uint32
|    |  |  +--rw ntp-request-key?    uint32
|    |  +--ro state
|    |  |  +--ro enable-ntp-auth?    empty
|    |  |  +--ro ntp-trusted-keys*   uint32
|    |  |  +--ro ntp-request-key?    uint32
|    |  +--rw ntp-keys
|    |    +--rw ntp-key* [key-id]
|    |       +--rw key-id    -> ../config/key-id
|    |       +--rw config
|    |       |  +--rw key-id?      uint32
|    |       |  +--rw key-value    string
|    |       |  +--rw key-type     ipi-ntp-types:ntp_hostp_key_type_t
|    |       +--ro state
|    |          +--ro key-id?      uint32
|    |          +--ro key-value    string
|    |          +--ro key-type     ipi-ntp-types:ntp_hostp_key_type_t
|    +--rw servers
|    |  +--rw server* [server-address]
|    |    +--rw server-address    -> ../config/server-address
|    |    +--rw config
|    |    |  +--rw server-address?   string
|    |    |  +--rw prefer?           empty
|    |    |  +--rw auth-key?         uint32
|    |    |  +--rw minpoll?          uint16
|    |    |  +--rw maxpoll?          uint16
|    |    +--ro state
|    |       +--ro server-address?   string
|    |       +--ro prefer?           empty
|    |       +--ro auth-key?         uint32
|    |       +--ro minpoll?          uint16
|    |       +--ro maxpoll?          uint16
```


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```
|    +--rw peers
|    |  +--rw peer* [peer-address]
|    |     +--rw peer-address    -> ../config/peer-address
|    |     +--rw config
|    |     |  +--rw peer-address?   string
|    |     |  +--rw prefer?         empty
|    |     |  +--rw auth-key?       uint32
|    |     |  +--rw minpoll?        uint16
|    |     |  +--rw maxpoll?        uint16
|    |     +--ro state
|    |        +--ro peer-address?   string
|    |        +--ro prefer?         empty
|    |        +--ro auth-key?       uint32
|    |        +--ro minpoll?        uint16
|    |        +--ro maxpoll?        uint16
|    +--rw rate-limiting
|    |  +--rw config
|    |  |  +--rw minimum-pkt-spacing?   uint16
|    |  +--ro state
|    |     +--ro minimum-pkt-spacing?   uint16
|    +--rw access-control-entries
|       +--rw access-control-entry* [client-ip-address]
|          +--rw client-ip-address    -> ../config/client-ip-address
|          +--rw config
|          |  +--rw client-ip-address?   inet:ip-address
|          |  +--rw netmask?             ipi-ntp-types:ntp_client_ip_net_mask_t
|          |  +--rw access-options?      ipi-ntp-types:ntp_acl_options_t
|          +--ro state
|             +--ro client-ip-address?   inet:ip-address
|             +--ro netmask?             ipi-ntp-types:ntp_client_ip_net_mask_t
|             +--ro access-options?      ipi-ntp-types:ntp_acl_options_t
+--rw debug
|  +--rw config
|  |  +--rw enable?   empty
|  +--ro state
|     +--ro enable?                empty
```

```
|    +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
+--ro peer-info
| +--ro peers
|    +--ro peer* [peer-address]
|       +--ro peer-address    -> ../state/peer-address
|       +--ro state
|          +--ro peer-address?    cml-data-types:cml_hostname_t
|          +--ro stratum?         uint8
|          +--ro poll-interval?   uint32
|          +--ro reach-value?     uint16
|          +--ro root-delay?      decimal64
|          +--ro offset?          decimal64
+--rw default-instance
   +--rw config
   | +--rw disable-default-instance?   empty
   +--ro state
      +--ro disable-default-instance?   empty

rpcs:
  +---x ntp-retry-server-synchronization {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_NTP}?
  | +---w input
  |    +---w vrf-name    string
  +---x ntp-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_NTP}?
  +---x ntp-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_NTP}?
```

ipi-object-tracking

```
+--rw object-tracking
   +--rw trackers
   | +--rw tracker* [tracker-id]
   |    +--rw tracker-id    -> ../config/tracker-id
   |    +--rw config
   |    | +--rw tracker-id?   uint16
   |    | +--rw ip-sla-id     uint16
   |    | +--rw delay-up?     uint16
```


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```
    |    | +--rw delay-down?   uint16
    |    +--ro state
    |       +--ro tracker-id?           uint16
    |       +--ro ip-sla-id             uint16
    |       +--ro delay-up?             uint16
    |       +--ro delay-down?           uint16
    |       +--ro reachability-status?   ipi-object-tracking-types:object_tracking_reachability_status_t {feature-
list:HAVE_OBJ_TRACKING}?
    +--rw interfaces
      +--rw interface* [name]
        +--rw name               -> ../config/name
        +--rw config
        | +--rw name?            -> /ipi-interface:interfaces/interface/name
        | +--rw select-option?   ipi-object-tracking-types:object_tracking_select_option_t
        +--ro state
        | +--ro name?            -> /ipi-interface:interfaces/interface/name
        | +--ro select-option?   ipi-object-tracking-types:object_tracking_select_option_t
        +--rw track-interfaces
          +--rw track-interface* [track-id]
            +--rw track-id    -> ../config/track-id
            +--rw config
            | +--rw track-id?   uint32
            +--ro state
              +--ro track-id?   uint32
```

ipi-ospf-interface-tracking

```
 +--rw ospf-interfaces-events-tracking
   +--rw ospf-interface-events-tracking* [event-name]
     +--rw event-name    -> ../config/event-name
     +--rw config
     | +--rw event-name?                 string
     | +--rw event-match-criteria       ipi-ospf-interface-tracking-types:intf_track_match_type_t
     | +--rw event-neighbor-ip-address*   inet:ipv4-address
     +--ro state
     | +--ro event-name?                string
     | +--ro event-match-criteria       ipi-ospf-interface-tracking-types:intf_track_match_type_t
```

```
  |  +--ro event-neighbor-ip-address*   inet:ipv4-address
  +--rw actions
    +--rw interfaces
      +--rw interface* [name]
        +--rw name      -> ../config/name
        +--rw config
        |  +--rw name?   -> /ipi-interface:interfaces/interface/name
        |  +--rw cost    uint32
        +--ro state
          +--ro name?   -> /ipi-interface:interfaces/interface/name
          +--ro cost    uint32
```

ipi-ospf

```
 +--rw ospfv2
   +--rw global
   |  +--rw config
   |  |  +--rw area-interface-config-mode?         empty
   |  |  +--rw enable-multi-instance-capability?   empty {feature-list:HAVE_OSPF_MULTI_INST}?
   |  +--ro state
   |  |  +--ro area-interface-config-mode?         empty
   |  |  +--ro enable-multi-instance-capability?   empty {feature-list:HAVE_OSPF_MULTI_INST}?
   |  +--rw graceful-restart {feature-list:HAVE_RESTART}?
   |  |  +--rw config
   |  |  |  +--rw grace-period?   uint16
   |  |  +--ro state
   |  |  |  +--ro grace-period?   uint16
   |  |  +--rw helper
   |  |     +--rw config
```


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```
|  |     |  +--rw max-grace-period?        uint16
|  |     |  +--rw disable-all-neighbors?   empty
|  |     |  +--rw disable-neighbor*        inet:ipv4-address
|  |     +--ro state
|  |        +--ro max-grace-period?        uint16
|  |        +--ro disable-all-neighbors?   empty
|  |        +--ro disable-neighbor*        inet:ipv4-address
|  +--rw cspf {feature-list:HAVE_OSPF_CSPF}?
|     +--rw config
|     |  +--rw tie-break-method?          ipi-ospf-types:ospf_cspf_tie_break_t
|     |  +--rw default-retry-interval?    uint16
|     |  +--rw enable-better-protection?  empty {feature-list:HAVE_GMPLS}?
|     +--ro state
|        +--ro tie-break-method?          ipi-ospf-types:ospf_cspf_tie_break_t
|        +--ro default-retry-interval?    uint16
|        +--ro enable-better-protection?  empty {feature-list:HAVE_GMPLS}?
+--rw processes
|  +--rw process* [ospf-id]
|     +--rw ospf-id                  -> ../config/ospf-id
|     +--rw config
|     |  +--rw ospf-id?                  uint16
|     |  +--rw vrf-name                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name {feature-list:HAVE_VRF}?
|     |  +--rw router-id?                inet:ipv4-address
|     |  +--rw flood-reduction?          empty
|     |  +--rw rfc1583-compatibility?    empty
|     |  +--rw database-summary?         empty
|     |  +--rw bfd-enable-all-interfaces?  empty {feature-list:HAVE_BFD}?
|     |  +--rw log-adjacency-changes?    ipi-ospf-types:ospf_log_adj_opt_t
|     |  +--rw shutdown?                 empty
|     |  +--rw area-border-type?         ipi-ospf-types:ospf_abr_type_t
|     |  +--rw reference-bandwidth?      uint32
|     |  +--rw max-database-descriptors?  uint16
|     |  +--rw p2p-rfc-incompatible?     empty
|     |  +--rw context-name?             string
|     +--ro state
|     |  +--ro statistics
```

```
|    | | +--ro router
|    | | | +--ro area-counter?   yang:counter64
|    | | +--ro database-description-exchanges
|    | | | +--ro in?    yang:counter64
|    | | | +--ro out?   yang:counter64
|    | | +--ro link-state-advertisement
|    | | | +--ro originate?              yang:counter64
|    | | | +--ro received?               yang:counter64
|    | | | +--ro external?               yang:counter64
|    | | | +--ro opaque?                 yang:counter64
|    | | | +--ro non-default-external?   yang:counter64
|    | | +--ro router-event
|    | | | +--ro packet
|    | | | | +--ro packets-send-buffer?   yang:counter64
|    | | | | +--ro unused-packets?        yang:counter64
|    | | | | +--ro max-unused-packets?    yang:counter64
|    | | | +--ro lsa
|    | | | | +--ro older-lsa-received?   yang:counter64
|    | | | | +--ro lsa-buffer?           uint32
|    | | | +--ro spf
|    | | | | +--ro full?       yang:counter64
|    | | | | +--ro summary?    yang:counter64
|    | | | | +--ro external?   yang:counter64
|    | | | +--ro neighbor
|    | | | | +--ro state-change?               yang:counter64
|    | | | | +--ro dead-interval-expiration?   yang:counter64
|    | | | | +--ro bad-link-state-request?     yang:counter64
|    | | | | +--ro sequence-number-mismatch?   yang:counter64
|    | | | +--ro router-id-changes?            yang:counter64
|    | | | +--ro designated-router-election?   yang:counter64
|    | | +--ro error
|    | | | +--ro discarded-in?            yang:counter64
|    | | | +--ro discarded-out?           yang:counter64
|    | | | +--ro hello-in?                yang:counter64
|    | | | +--ro database-descriptor-in?   yang:counter64
|    | | | +--ro ls-request-in?           yang:counter64
```


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```
|    | | | +--ro ls-update-in?             yang:counter64
|    | | | +--ro ls-acknowledge-in?        yang:counter64
|    | | | +--ro unknown-in?               yang:counter64
|    | | | +--ro unknown-out?              yang:counter64
|    | | | +--ro bad-version?              yang:counter64
|    | | | +--ro bad-crc?                  yang:counter64
|    | | | +--ro invalid-source?           yang:counter64
|    | | | +--ro invalid-destination?      yang:counter64
|    | | | +--ro no-neighbor?              yang:counter64
|    | | | +--ro passive?                  yang:counter64
|    | | | +--ro wrong-area?               yang:counter64
|    | | | +--ro packets-length?           yang:counter64
|    | | | +--ro bad-authentication?       yang:counter64
|    | | +--ro traffic
|    | | | +--ro total-packets-in?                 yang:counter64
|    | | | +--ro total-packets-out?                yang:counter64
|    | | | +--ro hello-packets-in?                 yang:counter64
|    | | | +--ro hello-packets-out?                yang:counter64
|    | | | +--ro database-descriptor-packets-in?   yang:counter64
|    | | | +--ro database-descriptor-packets-out?  yang:counter64
|    | | | +--ro ls-request-packets-in?            yang:counter64
|    | | | +--ro ls-request-packets-out?           yang:counter64
|    | | | +--ro ls-update-packets-in?             yang:counter64
|    | | | +--ro ls-update-packets-out?            yang:counter64
|    | | | +--ro ls-acknowledge-packets-in?        yang:counter64
|    | | | +--ro ls-acknowledge-packets-out?       yang:counter64
|    | | +--ro up-time?                          string
|    | +--ro ospf-id?                   uint16
|    | +--ro vrf-name                   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name {feature-list:HAVE_VRF}?
|    | +--ro router-id?                 inet:ipv4-address
|    | +--ro flood-reduction?           empty
|    | +--ro rfc1583-compatibility?     empty
|    | +--ro database-summary?          empty
|    | +--ro bfd-enable-all-interfaces? empty {feature-list:HAVE_BFD}?
|    | +--ro log-adjacency-changes?     ipi-ospf-types:ospf_log_adj_opt_t
|    | +--ro shutdown?                  empty
```

```
|    | +--ro area-border-type?            ipi-ospf-types:ospf_abr_type_t
|    | +--ro reference-bandwidth?         uint32
|    | +--ro max-database-descriptors?    uint16
|    | +--ro p2p-rfc-incompatible?        empty
|    | +--ro context-name?                string
|    | +--ro dste-status?                 ipi-ospf-types:ospf_dste_status
|    +--ro link-state-database
|    | +--ro state
|    |    +--ro external-checksum?   yang:phys-address
|    |    +--ro opaque-checksum?     yang:phys-address
|    +--rw passive-interfaces
|    | +--rw config
|    | | +--rw passive-interface-all?   empty
|    | +--ro state
|    | | +--ro passive-interface-all?   empty
|    | +--rw passive-interface* [name]
|    |    +--rw name                 -> ../config/name
|    |    +--rw config
|    |    | +--rw name?          -> /ipi-interface:interfaces/interface/name
|    |    | +--rw passive-mode?   ipi-ospf-types:ospf_passive_mode_t
|    |    +--ro state
|    |    | +--ro name?          -> /ipi-interface:interfaces/interface/name
|    |    | +--ro passive-mode?   ipi-ospf-types:ospf_passive_mode_t
|    |    +--rw passive-addresses
|    |       +--rw passive-address* [address]
|    |          +--rw address    -> ../config/address
|    |          +--rw config
|    |          | +--rw address?        inet:ipv4-address
|    |          | +--rw passive-mode    ipi-ospf-types:ospf_passive_addr_mode_t
|    |          +--ro state
|    |             +--ro address?        inet:ipv4-address
|    |             +--ro passive-mode    ipi-ospf-types:ospf_passive_addr_mode_t
|    +--rw default-information
|    | +--rw config
|    | | +--rw originate?                      empty
|    | | +--rw always-advertise-default-route?   empty
```


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```
|    | | +--rw metric?                        uint32
|    | | +--rw metric-type?                   ipi-ospf-types:ospf_metric_type_t
|    | | +--rw route-map?                     string
|    | +--ro state
|    |    +--ro originate?                    empty
|    |    +--ro always-advertise-default-route?   empty
|    |    +--ro metric?                       uint32
|    |    +--ro metric-type?                  ipi-ospf-types:ospf_metric_type_t
|    |    +--ro route-map?                    string
|    +--rw segment-routing {feature-list:HAVE_SR_MPLS}?
|    | +--rw config
|    | | +--rw mpls?   empty
|    | +--ro state
|    | | +--ro mpls?   empty
|    | +--rw global-blocks {feature-list:HAVE_SR_MPLS}?
|    | | +--rw global-block* [block-base-value block-range-size]
|    | |    +--rw block-base-value    -> ../config/block-base-value
|    | |    +--rw block-range-size    -> ../config/block-range-size
|    | |    +--rw config
|    | |    | +--rw block-base-value?   uint32
|    | |    | +--rw block-range-size?   uint32
|    | |    +--ro state
|    | |       +--ro block-base-value?   uint32
|    | |       +--ro block-range-size?   uint32
|    | +--rw prefix-sid-map {feature-list:HAVE_SR_MPLS}?
|    | | +--rw config
|    | | | +--rw advertise-local?   empty
|    | | | +--rw disable-receive?   empty
|    | | +--ro state
|    | |    +--ro advertise-local?   empty
|    | |    +--ro disable-receive?   empty
|    | +--ro announce-lists
|    | | +--ro announce-list* [area-id]
|    | |    +--ro area-id                  -> ../state/area-id
|    | |    +--ro state
|    | |    | +--ro area-id?    inet:ipv4-address
```

```
|    | |    | +--ro instance?   uint32
|    | |    +--ro external-prefixes-lsa
|    | |    | +--ro external-prefix-lsa* [prefix]
|    | |    |    +--ro prefix    -> ../state/prefix
|    | |    |    +--ro state
|    | |    |       +--ro prefix?              cml-data-types:cml_ipv4_addr_prefix_t
|    | |    |       +--ro advertising-router?   inet:ipv4-address
|    | |    |       +--ro route-type?           ipi-ospf-types:ospf_prefix_route_type_t
|    | |    +--ro external-prefixes-range
|    | |      +--ro external-prefix-range* [ls-id]
|    | |         +--ro ls-id    -> ../state/ls-id
|    | |         +--ro state
|    | |            +--ro ls-id?              inet:ipv4-address
|    | |            +--ro prefix?             cml-data-types:cml_ipv4_addr_prefix_t
|    | |            +--ro advertising-router?   inet:ipv4-address
|    | |            +--ro range-size?          uint16
|    | +--ro mapping-servers
|    | | +--ro state
|    | | | +--ro active-entries-count?         yang:counter32
|    | | | +--ro inactive-entries-count?       yang:counter32
|    | | | +--ro conflict-resolution-policy?   ipi-ospf-types:ospf_resolution_policy_t
|    | | +--ro active-servers
|    | | | +--ro active-server* [prefix]
|    | | |    +--ro prefix    -> ../state/prefix
|    | | |    +--ro state
|    | | |       +--ro prefix?              cml-data-types:cml_ipv4_addr_prefix_t
|    | | |       +--ro sid-index?           uint32
|    | | |       +--ro range-size?          uint32
|    | | |       +--ro last-prefix?         cml-data-types:cml_ipv4_addr_prefix_t
|    | | |       +--ro last-sid-index?      uint32
|    | | |       +--ro binding-flags?       empty
|    | | |       +--ro preference?          uint8
|    | | |       +--ro status?              ipi-ospf-types:ospf_sr_mapping_server_status_t
|    | | |       +--ro advertising-router?   inet:ipv4-address
|    | | |       +--ro flags?               uint8
|    | | +--ro inactive-servers
```


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```
|    | |    +--ro inactive-server* [prefix]
|    | |      +--ro prefix    -> ../state/prefix
|    | |      +--ro state
|    | |        +--ro prefix?              cml-data-types:cml_ipv4_addr_prefix_t
|    | |        +--ro sid-index?           uint32
|    | |        +--ro range-size?          uint32
|    | |        +--ro last-prefix?         cml-data-types:cml_ipv4_addr_prefix_t
|    | |        +--ro last-sid-index?      uint32
|    | |        +--ro binding-flags?       empty
|    | |        +--ro preference?          uint8
|    | |        +--ro status?              ipi-ospf-types:ospf_sr_mapping_server_status_t
|    | |        +--ro advertising-router?  inet:ipv4-address
|    | |        +--ro flags?               uint8
|    | +--ro capabilities
|    |    +--ro capability* [advertising-router]
|    |      +--ro advertising-router    -> ../state/advertising-router
|    |      +--ro state
|    |      | +--ro advertising-router?            inet:ipv4-address
|    |      | +--ro algorithms*                    ipi-ospf-types:ospf_sr_algorithm_t
|    |      | +--ro entropy-capability?            empty
|    |      | +--ro entropy-readable-label-depth?  uint8
|    |      | +--ro mapping-server-preference?     uint8
|    |      +--ro segment-identifier
|    |        +--ro state
|    |        | +--ro total-supported?  uint32
|    |        | +--ro range-count?      uint32
|    |        +--ro sid-ranges
|    |          +--ro sid-range* [start end]
|    |            +--ro start    -> ../state/start
|    |            +--ro end      -> ../state/end
|    |            +--ro state
|    |              +--ro start?  uint32
|    |              +--ro end?    uint32
|    +--rw capability
|    | +--rw config
|    | | +--rw disable-cspf?               empty {feature-list:HAVE_OSPF_CSPF}?
```

```
|    | | +--rw enable-vrf-lite?              empty {feature-list:HAVE_VRF_OSPF}?
|    | | +--rw disable-opaque-lsa?           empty {feature-list:HAVE_OPAQUE_LSA}?
|    | | +--rw disable-traffic-engineering?  empty {feature-list:HAVE_OSPF_TE}?
|    | | +--rw disable-graceful-restart?     empty {feature-list:HAVE_RESTART}?
|    | | +--rw link-local-signaling?         empty {feature-list:HAVE_RESTART}?
|    | +--ro state
|    |    +--ro disable-cspf?                 empty {feature-list:HAVE_OSPF_CSPF}?
|    |    +--ro enable-vrf-lite?              empty {feature-list:HAVE_VRF_OSPF}?
|    |    +--ro disable-opaque-lsa?           empty {feature-list:HAVE_OPAQUE_LSA}?
|    |    +--ro disable-traffic-engineering?  empty {feature-list:HAVE_OSPF_TE}?
|    |    +--ro disable-graceful-restart?     empty {feature-list:HAVE_RESTART}?
|    |    +--ro link-local-signaling?         empty {feature-list:HAVE_RESTART}?
|    +--rw areas
|    | +--rw area* [area-id]
|    | | +--rw area-id                        -> ../config/area-id
|    | | +--rw config
|    | | | +--rw area-id?              ipi-ospf-types:ospf_area_t
|    | | | +--rw authentication-type?  ipi-ospf-types:ospf_area_authentication_type_t
|    | | | +--rw default-cost?         uint32
|    | | | +--rw shortcut?             ipi-ospf-types:ospf_area_shortcut_type_t
|    | | +--ro state
|    | | | +--ro area-id?                ipi-ospf-types:ospf_area_t
|    | | | +--ro authentication-type?    ipi-ospf-types:ospf_area_authentication_type_t
|    | | | +--ro default-cost?           uint32
|    | | | +--ro shortcut?               ipi-ospf-types:ospf_area_shortcut_type_t
|    | | | +--ro interface-count?        yang:counter64
|    | | | +--ro neighbor-count?         yang:counter64
|    | | | +--ro spf-last-execution-time?  string
|    | | | +--ro spf-execution-count?    yang:counter64
|    | | | +--ro lsa-count?              yang:counter64
|    | | | +--ro lsa-checksum?           yang:phys-address
|    | | +--rw interfaces
|    | | | +--rw interface* [name]
|    | | |    +--rw name         -> ../config/name
|    | | |    +--rw config
|    | | |    |  +--rw name?               string
```


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```
|   | | |   | +--rw cost?                uint16
|   | | |   | +--rw network-type?        ipi-ospf-types:ospf_network_t
|   | | |   | +--rw passive?             empty
|   | | |   | +--rw priority?            uint8
|   | | |   | +--rw authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
|   | | |   | +--rw key?                 ipi-ospf-types:ospf_md5_password_t
|   | | |   +--ro state
|   | | |   | +--ro name?                string
|   | | |   | +--ro cost?                uint16
|   | | |   | +--ro network-type?        ipi-ospf-types:ospf_network_t
|   | | |   | +--ro passive?             empty
|   | | |   | +--ro priority?            uint8
|   | | |   | +--ro authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
|   | | |   | +--ro key?                 ipi-ospf-types:ospf_md5_password_t
|   | | |   +--rw enable-bfd {feature-list:HAVE_BFD}?
|   | | |   | +--rw config
|   | | |   | | +--rw enabled?   ipi-ospf-types:ospf_bfd_state
|   | | |   | +--ro state
|   | | |   |   +--ro enabled?   ipi-ospf-types:ospf_bfd_state
|   | | |   +--rw lsa-filter
|   | | |   | +--rw config
|   | | |   | | +--rw filter-out?   empty
|   | | |   | +--ro state
|   | | |   |   +--ro filter-out?   empty
|   | | |   +--rw mpls
|   | | |   | +--rw config
|   | | |   | | +--rw traffic-engineering-metric?   uint16 {feature-list:HAVE_OSPF_TE}?
|   | | |   | +--ro state
|   | | |   | | +--ro traffic-engineering-metric?   uint16 {feature-list:HAVE_OSPF_TE}?
|   | | |   | +--rw igp-ldp-sync
|   | | |   |   +--rw config
|   | | |   |   | +--rw ldp-igp-sync-enable?   empty {feature-list:HAVE_LDPD}?
|   | | |   |   | +--rw holddown-timer?        uint32 {feature-list:HAVE_LDPD}?
|   | | |   |   +--ro state
|   | | |   |     +--ro ldp-igp-sync-enable?   empty {feature-list:HAVE_LDPD}?
|   | | |   |     +--ro holddown-timer?        uint32 {feature-list:HAVE_LDPD}?
```

```
|    | | |    +--rw timers
|    | | |       +--rw config
|    | | |       |  +--rw dead-interval?            uint16
|    | | |       |  +--rw hello-interval?           uint16
|    | | |       |  +--rw retransmission-interval?  uint16
|    | | |       +--ro state
|    | | |          +--ro dead-interval?            uint16
|    | | |          +--ro hello-interval?           uint16
|    | | |          +--ro retransmission-interval?  uint16
|    | | +--rw stub
|    | | | +--rw config
|    | | | | +--rw is-stub?      empty
|    | | | | +--rw no-summary?   empty
|    | | | +--ro state
|    | | |    +--ro is-stub?      empty
|    | | |    +--ro no-summary?   empty
|    | | +--rw nssas {feature-list:HAVE_NSSA}?
|    | | | +--rw nssa* [nssa-enable]
|    | | |    +--rw nssa-enable    -> ../config/nssa-enable
|    | | |    +--rw config
|    | | |    |  +--rw nssa-enable?                  ipi-ospf-types:ospf_nssa_t
|    | | |    |  +--rw no-summary?                   empty
|    | | |    |  +--rw stability-interval?           uint32
|    | | |    |  +--rw translator-role?              ipi-ospf-types:ospf_translator_role_t
|    | | |    |  +--rw no-redistribution?            empty
|    | | |    |  +--rw default-information-originate?   empty
|    | | |    |  +--rw metric?                       uint32
|    | | |    |  +--rw metric-type?                  ipi-ospf-types:ospf_metric_type_t
|    | | |    |  +--rw route-map?                    string
|    | | |    +--ro state
|    | | |       +--ro nssa-enable?                 ipi-ospf-types:ospf_nssa_t
|    | | |       +--ro no-summary?                  empty
|    | | |       +--ro stability-interval?          uint32
|    | | |       +--ro translator-role?             ipi-ospf-types:ospf_translator_role_t
|    | | |       +--ro no-redistribution?           empty
|    | | |       +--ro default-information-originate?   empty
```


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```
|   | | |      +--ro metric?                    uint32
|   | | |      +--ro metric-type?               ipi-ospf-types:ospf_metric_type_t
|   | | |      +--ro route-map?                 string
|   | | |      +--ro translator-count?          yang:counter64
|   | | |      +--ro translator-state?          ipi-ospf-types:ospf_nssa_translator_state_t
|   | | +--rw filter-list {feature-list:HAVE_ACL}?
|   | | | +--rw prefix-list {feature-list:HAVE_ACL}?
|   | | | | +--rw filter-in
|   | | | | | +--rw config
|   | | | | | | +--rw name?   string
|   | | | | | +--ro state
|   | | | | | |   +--ro name?   string
|   | | | | +--rw filter-out
|   | | | |   +--rw config
|   | | | |   | +--rw name?   string
|   | | | |   +--ro state
|   | | | |     +--ro name?   string
|   | | | +--rw access-control-list {feature-list:HAVE_ACL}?
|   | | |   +--rw filter-in
|   | | |   | +--rw config
|   | | |   | | +--rw name?   string
|   | | |   | +--ro state
|   | | |   |   +--ro name?   string
|   | | |   +--rw filter-out
|   | | |     +--rw config
|   | | |     | +--rw name?   string
|   | | |     +--ro state
|   | | |       +--ro name?   string
|   | | +--rw hosts
|   | | | +--rw host* [ip-address]
|   | | |   +--rw ip-address    -> ../config/ip-address
|   | | |   +--rw config
|   | | |   | +--rw ip-address?   inet:ipv4-address
|   | | |   | +--rw cost?         uint16
|   | | |   +--ro state
|   | | |     +--ro ip-address?   inet:ipv4-address
```

```
|    | | |       +--ro cost?         uint16
|    | | +--rw networks
|    | | |  +--rw network* [prefix]
|    | | |    +--rw prefix    -> ../config/prefix
|    | | |    +--rw config
|    | | |    |  +--rw prefix?        cml-data-types:cml_ipv4_prefix_t
|    | | |    |  +--rw instance-id    uint8 {feature-list:HAVE_OSPF_MULTI_INST}?
|    | | |    +--ro state
|    | | |       +--ro prefix?        cml-data-types:cml_ipv4_prefix_t
|    | | |       +--ro instance-id    uint8 {feature-list:HAVE_OSPF_MULTI_INST}?
|    | | +--rw area-ranges
|    | | |  +--rw area-range* [address]
|    | | |    +--rw address    -> ../config/address
|    | | |    +--rw config
|    | | |    |  +--rw address?             cml-data-types:cml_ipv4_prefix_t
|    | | |    |  +--rw disable-advertise?   empty
|    | | |    +--ro state
|    | | |       +--ro address?             cml-data-types:cml_ipv4_prefix_t
|    | | |       +--ro disable-advertise?   empty
|    | | +--rw virtual-links
|    | | |  +--rw virtual-link* [remote-router-id]
|    | | |    +--rw remote-router-id                    -> ../config/remote-router-id
|    | | |    +--rw config
|    | | |    |  +--rw remote-router-id?   inet:ipv4-address
|    | | |    +--ro state
|    | | |    |  +--ro remote-router-id?              inet:ipv4-address
|    | | |    |  +--ro name?                          string
|    | | |    |  +--ro interface?                     string
|    | | |    |  +--ro virtual-link-interface-state?   ipi-ospf-types:ospf_vlink_interface_state_t
|    | | |    |  +--ro link-state?                    ipi-ospf-types:ospf_vlink_status_t
|    | | |    |  +--ro adjacency-state?               ipi-ospf-types:ospf_vlink_adj_state_t
|    | | |    |  +--ro hello-packet-due-in?           string
|    | | |    |  +--ro local-address?                 cml-data-types:cml_ipv4_prefix_t
|    | | |    |  +--ro remote-address?                cml-data-types:cml_ipv4_prefix_t
|    | | |    +--rw bfd
|    | | |    |  +--rw config
```


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```
|   | | |   | | +--rw fall-over?   empty {feature-list:HAVE_BFD}?
|   | | |   | +--ro state
|   | | |   |   +--ro fall-over?   empty {feature-list:HAVE_BFD}?
|   | | |   +--rw authentication
|   | | |   | +--rw config
|   | | |   | | +--rw authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
|   | | |   | | +--rw key?                   ipi-ospf-types:ospf_md5_password_t
|   | | |   | +--ro state
|   | | |   | | +--ro authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
|   | | |   | | +--ro key?                   ipi-ospf-types:ospf_md5_password_t
|   | | |   | +--rw message-digests
|   | | |   |   +--rw message-digest* [message-digest-id]
|   | | |   |     +--rw message-digest-id    -> ../config/message-digest-id
|   | | |   |     +--rw config
|   | | |   |     | +--rw message-digest-id?               uint8
|   | | |   |     | +--rw message-digest-encryption-type    ipi-ospf-types:ospf_cipher_type_t
|   | | |   |     | +--rw message-digest-key               ipi-ospf-types:ospf_md5_password_t
|   | | |   |     +--ro state
|   | | |   |       +--ro message-digest-id?               uint8
|   | | |   |       +--ro message-digest-encryption-type    ipi-ospf-types:ospf_cipher_type_t
|   | | |   |       +--ro message-digest-key               ipi-ospf-types:ospf_md5_password_t
|   | | |   +--rw timers
|   | | |   | +--rw config
|   | | |   | | +--rw dead-interval?            uint16
|   | | |   | | +--rw hello-interval?           uint16
|   | | |   | | +--rw transmit-delay?           uint16
|   | | |   | | +--rw retransmission-interval?   uint16
|   | | |   | +--ro state
|   | | |   |   +--ro dead-interval?            uint16
|   | | |   |   +--ro hello-interval?           uint16
|   | | |   |   +--ro transmit-delay?           uint16
|   | | |   |   +--ro retransmission-interval?   uint16
|   | | |   +--ro virtual-link-interface-state-change
|   | | |   | +--ro router-id?         inet:ipv4-address
|   | | |   | +--ro interface-state?   ipi-ospf-types:ospf_interface_state_t
|   | | |   +--ro virtual-neighbor-state-change
```

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```
|    | | |    | +--ro router-id?        inet:ipv4-address
|    | | |    | +--ro neighbor-state?   ipi-ospf-types:ospf_neighbor_state_change_t
|    | | |    +--ro virtual-link-interface-rx-bad-packet
|    | | |    | +--ro router-id?     inet:ipv4-address
|    | | |    | +--ro packet-type?   ipi-ospf-types:ospf_packet_type_t
|    | | |    +--ro virtual-link-interface-tx-retransmit
|    | | |    | +--ro router-id?        inet:ipv4-address
|    | | |    | +--ro packet-type?      ipi-ospf-types:ospf_packet_type_t
|    | | |    | +--ro lsdb-type?        ipi-ospf-types:ospf_lsdb_type_t
|    | | |    | +--ro lsdb-lsid?        inet:ipv4-address
|    | | |    | +--ro lsdb-router-id?   inet:ipv4-address
|    | | |    +--ro virtual-link-interface-config-error
|    | | |       +--ro router-id?     inet:ipv4-address
|    | | |       +--ro error-type?    ipi-ospf-types:ospf_config_error_type_t
|    | | |       +--ro packet-type?   ipi-ospf-types:ospf_packet_type_t
|    | | +--rw sham-links {feature-list:HAVE_VRF_OSPF,feature-list:HAVE_MPLS}?
|    | | |  +--rw sham-link* [source-id destination-id]
|    | | |    +--rw source-id         -> ../config/source-id
|    | | |    +--rw destination-id    -> ../config/destination-id
|    | | |    +--rw config
|    | | |       +--rw source-id?        inet:ipv4-address
|    | | |       +--rw destination-id?   inet:ipv4-address
|    | | |       +--rw cost?             uint16
|    | | +--ro traffic-engineering-database {feature-list:HAVE_OSPF_CSPF}?
|    | |    +--ro link* [advertising-router link-id]
|    | |    | +--ro advertising-router    -> ../state/advertising-router
|    | |    | +--ro link-id               -> ../state/link-id
|    | |    | +--ro state
|    | |    | | +--ro link-id?             inet:ipv4-address
|    | |    | | +--ro advertising-router?  inet:ipv4-address
|    | |    | | +--ro ls-options?          string
|    | |    | | +--ro ls-opaque-type?      uint32
|    | |    | | +--ro ls-age?              uint16
|    | |    | | +--ro ls-type?             ipi-ospf-types:ospf_lsdb_type_t
|    | |    | | +--ro ls-instance?         string
|    | |    | | +--ro ls-sequence-number?  string
```


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```
|  | |  | | +--ro ls-checksum?          string
|  | |  | | +--ro ls-length?            uint16
|  | |  | +--ro tlv
|  | |  |    +--ro state
|  | |  |    | +--ro type?                        ipi-ospf-types:ospf_tlv_type_t
|  | |  |    | +--ro link-type?                   ipi-ospf-types:ospf_tlv_link_type_t
|  | |  |    | +--ro local-interface-addresses*      inet:ipv4-address
|  | |  |    | +--ro remote-interface-addresses*     inet:ipv4-address
|  | |  |    | +--ro local-ids*                   inet:ipv4-address {feature-list:HAVE_GMPLS}?
|  | |  |    | +--ro remote-ids*                  inet:ipv4-address {feature-list:HAVE_GMPLS}?
|  | |  |    | +--ro local-interface-id?          uint32 {feature-list:HAVE_GMPLS}?
|  | |  |    | +--ro local-remote-interface-id?   uint32 {feature-list:HAVE_GMPLS}?
|  | |  |    | +--ro metric?                      uint32
|  | |  |    | +--ro maximum-bandwidth?           string
|  | |  |    | +--ro maximum-reservable-bandwidth?   string
|  | |  |    | +--ro resource-color-values*       decimal64
|  | |  |    | +--ro protection-type?             cml-data-types:cml_gmpls_protection_type_t
|  | |  |    | +--ro shared-risk-link-groups?     uint32
|  | |  |    +--ro capability
|  | |  |    | +--ro state
|  | |  |    | | +--ro type?                 cml-data-types:cml_gmpls_capability_type_t {feature-list:HAVE_GMPLS}?
|  | |  |    | | +--ro encoding-type?        cml-data-types:cml_gmpls_encoding_type_t {feature-
list:HAVE_GMPLS}?
|  | |  |    | | +--ro mtu?                  uint16
|  | |  |    | | +--ro minimum-lsp-bandwidth?   string {feature-list:HAVE_GMPLS}?
|  | |  |    | +--ro maximum-lsp-bandwidths
|  | |  |    |    +--ro maximum-lsp-bandwidth* [priority]
|  | |  |    |       +--ro priority    -> ../state/priority
|  | |  |    |       +--ro state
|  | |  |    |          +--ro priority?    uint8
|  | |  |    |          +--ro bandwidth?   string
|  | |  |    +--ro unreserved-bandwidths
|  | |  |    | +--ro unreserved-bandwidth* [priority]
|  | |  |    |    +--ro priority    -> ../state/priority
|  | |  |    |    +--ro state
|  | |  |    |       +--ro priority?    uint8
|  | |  |    |       +--ro bandwidth?   string
```

```
|   | | |   +--ro link-delay
|   | | |   | +--ro state
|   | | |   |   +--ro anomalous-bit?   empty
|   | | |   |   +--ro delay?           uint32
|   | | |   +--ro link-min-max-delay
|   | | |   | +--ro state
|   | | |   |   +--ro anomalous-bit?   empty
|   | | |   |   +--ro minimum-delay?   uint32
|   | | |   |   +--ro maximum-delay?   uint32
|   | | |   +--ro link-delay-variation
|   | | |   | +--ro state
|   | | |   |   +--ro delay-variation?   uint32
|   | | |   +--ro link-loss
|   | | |   | +--ro state
|   | | |   |   +--ro anomalous-bit?   empty
|   | | |   |   +--ro loss?            string
|   | | |   +--ro link-bandwidth
|   | | |     +--ro state
|   | | |       +--ro residual-bandwidth?    string
|   | | |       +--ro available-bandwidth?   string
|   | | |       +--ro utilized-bandwidth?    string
|   | | +--ro router* [router-id]
|   | |   +--ro router-id    -> ../state/router-id
|   | |   +--ro state
|   | |     +--ro router-id?           inet:ipv4-address
|   | |     +--ro advertising-router?   inet:ipv4-address
|   | |     +--ro ls-options?          string
|   | |     +--ro ls-opaque-type?      uint32
|   | |     +--ro ls-age?              uint16
|   | |     +--ro ls-type?             ipi-ospf-types:ospf_lsdb_type_t
|   | |     +--ro ls-instance?         string
|   | |     +--ro ls-sequence-number?   string
|   | |     +--ro ls-checksum?         string
|   | |     +--ro ls-length?           uint16
|   | +--rw config
|   | | +--rw maximum-areas-number?   uint32
```


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```
|    | +--ro state
|    |    +--ro maximum-areas-number?   uint32
|    +--rw lsdb
|    | +--rw overflow
|    |    +--rw normal-lsa
|    |    | +--rw config!
|    |    | | +--rw max-limit     uint32
|    |    | | +--rw limit-type    ipi-ospf-types:ospf_db_limit_type_t
|    |    | +--ro state
|    |    |    +--ro max-limit     uint32
|    |    |    +--ro limit-type    ipi-ospf-types:ospf_db_limit_type_t
|    |    +--rw external-lsa {feature-list:HAVE_OSPF_DB_OVERFLOW}?
|    |    | +--rw config!
|    |    | | +--rw max-limit        uint32
|    |    | | +--rw exit-interval    uint16
|    |    | +--ro state
|    |    |    +--ro max-limit        uint32
|    |    |    +--ro exit-interval    uint16
|    |    +--ro lsdb-overflow-external-lsa
|    |       +--ro router-id?   -> /ospfv2/processes/process/state/router-id
|    |       +--ro max-limit?   uint32
|    +--rw lfa {feature-list:HAVE_OSPF_LFA}?
|    | +--rw fast-reroute
|    |    +--rw config
|    |    | +--rw keep-all-paths?     empty
|    |    | +--rw remote-lfa-areas*   ipi-ospf-types:ospf_area_t {feature-list:HAVE_LDPD}?
|    |    | +--rw route-map?          string
|    |    +--ro state
|    |    | +--ro keep-all-paths?     empty
|    |    | +--ro remote-lfa-areas*   ipi-ospf-types:ospf_area_t {feature-list:HAVE_LDPD}?
|    |    | +--ro route-map?          string
|    |    +--rw tie-breaks
|    |    | +--rw tie-break* [type]
|    |    |    +--rw type      -> ../config/type
|    |    |    +--rw config
|    |    |    | +--rw type?   ipi-ospf-types:ospf_frr_tie_break_t
```

```
|    |    |    | +--rw idx     uint8
|    |    |    +--ro state
|    |    |      +--ro type?   ipi-ospf-types:ospf_frr_tie_break_t
|    |    |      +--ro idx     uint8
|    |    +--rw topologies-independent-lfa
|    |      +--rw topology-independent-lfa* [area-id] {feature-list:HAVE_OSPF_TI_LFA}?
|    |        +--rw area-id         -> ../config/area-id
|    |        +--rw config
|    |        | +--rw area-id?   ipi-ospf-types:ospf_area_t
|    |        +--ro state
|    |        | +--ro area-id?   ipi-ospf-types:ospf_area_t
|    |        +--ro routes {feature-list:HAVE_OSPF_TI_LFA}?
|    |        | +--ro route* [prefix]
|    |        |    +--ro prefix                 -> ../state/prefix
|    |        |    +--ro state
|    |        |    | +--ro prefix?   cml-data-types:cml_ipv4_addr_prefix_t
|    |        |    +--ro primary-nexthop-infos
|    |        |      +--ro primary-nexthop-info* [primary-path-nexthop]
|    |        |        +--ro primary-path-nexthop    -> ../state/primary-path-nexthop
|    |        |        +--ro state
|    |        |          +--ro primary-path-nexthop?     inet:ipv4-address
|    |        |          +--ro primary-interface-name?   string
|    |        |          +--ro pq-node?                  inet:ipv4-address
|    |        |          +--ro p-node-disjoint?          inet:ipv4-address
|    |        |          +--ro q-node-disjoint?          inet:ipv4-address
|    |        +--ro neighbors {feature-list:HAVE_OSPF_TI_LFA}?
|    |        | +--ro neighbor* [address]
|    |        |    +--ro address    -> ../state/address
|    |        |    +--ro state
|    |        |      +--ro address?          inet:ipv4-address
|    |        |      +--ro pq-node?          inet:ipv4-address
|    |        |      +--ro p-node-disjoint?  inet:ipv4-address
|    |        |      +--ro q-node-disjoint?  inet:ipv4-address
|    |        +--ro vertices {feature-list:HAVE_OSPF_TI_LFA}?
|    |        | +--ro vertex* [ls-id]
|    |        |    +--ro ls-id          -> ../state/ls-id
```


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```
|   |       |   +--ro state
|   |       |   | +--ro ls-id?   inet:ipv4-address
|   |       |   +--ro backup-infos
|   |       |     +--ro backup-info* [primary-interface-name]
|   |       |       +--ro primary-interface-name    -> ../state/primary-interface-name
|   |       |       +--ro state
|   |       |       | +--ro primary-interface-name?      string
|   |       |       | +--ro backup-out-interface-name?   string
|   |       |       | +--ro pq-node?                     inet:ipv4-address
|   |       |       | +--ro p-node-disjoint?             inet:ipv4-address
|   |       |       | +--ro q-node-disjoint?             inet:ipv4-address
|   |       |       +--ro p-nodes
|   |       |       | +--ro p-node* [address]
|   |       |       |   +--ro address    -> ../state/address
|   |       |       |   +--ro state
|   |       |       |     +--ro address?    inet:ipv4-address
|   |       |       |     +--ro distance?   uint32
|   |       |       +--ro q-nodes
|   |       |         +--ro q-node* [address]
|   |       |           +--ro address    -> ../state/address
|   |       |           +--ro state
|   |       |             +--ro address?    inet:ipv4-address
|   |       |             +--ro distance?   uint32
|   |       +--ro repair-lists
|   |         +--ro repair-list* [prefix]
|   |           +--ro prefix                 -> ../state/prefix
|   |           +--ro state
|   |           | +--ro prefix?   cml-data-types:cml_ipv4_addr_prefix_t
|   |           +--ro primary-info
|   |           | +--ro state
|   |           |   +--ro metric?         uint32
|   |           |   +--ro route-ftn-idx?   uint32
|   |           |   +--ro route-ilm-idx?   uint32
|   |           |   +--ro sr-in-label?     uint32
|   |           +--ro nexthop-infos
|   |           | +--ro nexthop-info* [primary-path-nexthop]
```

```
|  |  |  +--ro primary-path-nexthop    -> ../state/primary-path-nexthop
|  |  |  +--ro state
|  |  |    +--ro primary-path-nexthop?            inet:ipv4-address
|  |  |    +--ro primary-path-interface?          string
|  |  |    +--ro segment-routing-outgoing-label?  uint32
|  |  |    +--ro backup-outgoing-label?           uint32
|  |  |    +--ro bypass-trunk-id?                 uint32
|  |  |    +--ro backup-interface-name?           string
|  |  |    +--ro pq-node?                         inet:ipv4-address
|  |  |    +--ro p-node-disjoint?                 inet:ipv4-address
|  |  |    +--ro q-node-disjoint?                 inet:ipv4-address
|  |  +--ro segment-routing-trunks
|  |    +--ro segment-routing-trunk* [trunk-name]
|  |      +--ro trunk-name    -> ../state/trunk-name
|  |      +--ro state
|  |        +--ro trunk-name?            string
|  |        +--ro trunk-id?              uint32
|  |        +--ro ftn-id?                uint32
|  |        +--ro ref-cnt?               uint32
|  |        +--ro outgoing-label-count?  yang:counter32
|  |        +--ro outgoing-labels*       uint32
|  |        +--ro next-hop?              inet:ipv4-address
|  +--rw administrative-distance
|  | +--rw config
|  | | +--rw default-distance?  uint8
|  | +--ro state
|  | | +--ro default-distance?  uint8
|  | +--rw ospf
|  | | +--rw config
|  | | | +--rw intra-area-distance?       uint8
|  | | | +--rw inter-area-distance?       uint8
|  | | | +--rw external-routes-distance?  uint8
|  | | +--ro state
|  | |   +--ro intra-area-distance?       uint8
|  | |   +--ro inter-area-distance?       uint8
|  | |   +--ro external-routes-distance?  uint8
```


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```
|    | +--rw networks
|    |    +--rw network* [prefix]
|    |       +--rw prefix    -> ../config/prefix
|    |       +--rw config
|    |       | +--rw prefix?               cml-data-types:cml_ipv4_addr_prefix_t
|    |       | +--rw distance?             uint8
|    |       | +--rw access-control-list?   string
|    |       +--ro state
|    |          +--ro prefix?              cml-data-types:cml_ipv4_addr_prefix_t
|    |          +--ro distance?            uint8
|    |          +--ro access-control-list?   string
|    +--rw summary-addresses
|    | +--rw summary-address* [address]
|    |    +--rw address    -> ../config/address
|    |    +--rw config
|    |    | +--rw address?         cml-data-types:cml_ipv4_prefix_t
|    |    | +--rw not-advertise?   empty
|    |    | +--rw tag?             uint32
|    |    +--ro state
|    |       +--ro address?        cml-data-types:cml_ipv4_prefix_t
|    |       +--ro not-advertise?   empty
|    |       +--ro tag?            uint32
|    +--rw distribute-list {feature-list:HAVE_ACL}?
|    | +--rw filter-in
|    | | +--rw config
|    | | | +--rw access-control-list?   string
|    | | +--ro state
|    | |    +--ro access-control-list?   string
|    | +--rw filter-out
|    |    +--rw config
|    |    | +--rw access-control-list-isis?        string
|    |    | +--rw access-control-list-bgp?         string
|    |    | +--rw access-control-list-rip?         string
|    |    | +--rw access-control-list-static?      string
|    |    | +--rw access-control-list-connected?   string
|    |    | +--rw access-control-list-kernel?      string
```

```
|    |    +--ro state
|    |    |  +--ro access-control-list-isis?        string
|    |    |  +--ro access-control-list-bgp?         string
|    |    |  +--ro access-control-list-rip?         string
|    |    |  +--ro access-control-list-static?      string
|    |    |  +--ro access-control-list-connected?   string
|    |    |  +--ro access-control-list-kernel?      string
|    |    +--rw ospfv2-processes
|    |       +--rw ospfv2-process* [ospf-process-id]
|    |          +--rw ospf-process-id    -> ../config/ospf-process-id
|    |          +--rw config
|    |          |  +--rw ospf-process-id?               uint16
|    |          |  +--rw access-control-list-out-ospf?   string
|    |          +--ro state
|    |             +--ro ospf-process-id?               uint16
|    |             +--ro access-control-list-out-ospf?   string
|    +--rw domain-id
|    |  +--rw primary-domain {feature-list:HAVE_VRF_OSPF}?
|    |  |  +--rw config
|    |  |  |  +--rw primary-domain-id-address?   inet:ipv4-address
|    |  |  +--ro state
|    |  |  |  +--ro primary-domain-id-address?   inet:ipv4-address
|    |  |  +--rw hexes
|    |  |     +--rw hex* [primary-hex-type primary-domain-id-hex] {feature-list:HAVE_VRF_OSPF}?
|    |  |        +--rw primary-hex-type         -> ../config/primary-hex-type
|    |  |        +--rw primary-domain-id-hex    -> ../config/primary-domain-id-hex
|    |  |        +--rw config
|    |  |        |  +--rw primary-hex-type?        ipi-ospf-types:ospf_domain_type_t
|    |  |        |  +--rw primary-domain-id-hex?   ipi-ospf-types:ospf_domain_id_hex_string_t
|    |  |        +--ro state
|    |  |           +--ro primary-hex-type?        ipi-ospf-types:ospf_domain_type_t
|    |  |           +--ro primary-domain-id-hex?   ipi-ospf-types:ospf_domain_id_hex_string_t
|    |  +--rw secondary-domain
|    |     +--rw addresses
|    |     |  +--rw address* [secondary-domain-id-address] {feature-list:HAVE_VRF_OSPF}?
|    |     |     +--rw secondary-domain-id-address    -> ../config/secondary-domain-id-address
```


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```
|    |    |    +--rw config
|    |    |    | +--rw secondary-domain-id-address?   inet:ipv4-address
|    |    |    +--ro state
|    |    |      +--ro secondary-domain-id-address?   inet:ipv4-address
|    |    +--rw hexes
|    |      +--rw hex* [secondary-hex-type secondary-domain-id-hex] {feature-list:HAVE_VRF_OSPF}?
|    |        +--rw secondary-hex-type         -> ../config/secondary-hex-type
|    |        +--rw secondary-domain-id-hex    -> ../config/secondary-domain-id-hex
|    |        +--rw config
|    |        | +--rw secondary-hex-type?        ipi-ospf-types:ospf_domain_type_t
|    |        | +--rw secondary-domain-id-hex?   ipi-ospf-types:ospf_domain_id_hex_string_t
|    |        +--ro state
|    |          +--ro secondary-hex-type?        ipi-ospf-types:ospf_domain_type_t
|    |          +--ro secondary-domain-id-hex?   ipi-ospf-types:ospf_domain_id_hex_string_t
|    +--rw distribute {feature-list:HAVE_BGP_LS}?
|    | +--rw bgp-link-state
|    |    +--rw config
|    |    | +--rw enabled?          empty
|    |    | +--rw throttle-timer?   uint8
|    |    +--ro state
|    |      +--ro enabled?          empty
|    |      +--ro throttle-timer?   uint8
|    +--rw neighbors
|    | +--rw neighbor* [address]
|    |    +--rw address                -> ../config/address
|    |    +--rw config
|    |    | +--rw address?        inet:ipv4-address
|    |    | +--rw cost?           uint16
|    |    | +--rw priority?       uint8
|    |    | +--rw poll-interval?   uint32
|    |    +--ro state
|    |    | +--ro address?        inet:ipv4-address
|    |    | +--ro cost?           uint16
|    |    | +--ro priority?       uint8
|    |    | +--ro poll-interval?   uint32
|    |    +--ro neighbor-state-change
```

```
|    |    | +--ro router-id?                  inet:ipv4-address
|    |    | +--ro address?                    inet:ipv4-address
|    |    | +--ro neighbor-address-less-index?   uint32
|    |    | +--ro neighbor-router-id?         inet:ipv4-address
|    |    | +--ro neighbor-state?             ipi-ospf-types:ospf_neighbor_state_change_t
|    |    +--ro tx-retransmit
|    |       +--ro router-id?                 inet:ipv4-address
|    |       +--ro address?                   inet:ipv4-address
|    |       +--ro neighbor-address-less-index?   uint32
|    |       +--ro neighbor-router-id?        inet:ipv4-address
|    |       +--ro packet-type?               ipi-ospf-types:ospf_packet_type_t
|    |       +--ro lsdb-type?                 ipi-ospf-types:ospf_lsdb_type_t
|    |       +--ro lsdb-lsid?                 inet:ipv4-address
|    |       +--ro lsdb-router-id?            inet:ipv4-address
|    +--rw timers
|    | +--rw config
|    | +--ro state
|    | +--rw lfa
|    | | +--rw config
|    | | | +--rw termination-hold-interval?   uint32 {feature-list:HAVE_OSPF_LFA}?
|    | | +--ro state
|    | |    +--ro termination-hold-interval?   uint32 {feature-list:HAVE_OSPF_LFA}?
|    | +--rw lsa
|    | | +--rw config
|    | | | +--rw min-arrival-interval?   uint32
|    | | +--ro state
|    | | | +--ro min-arrival-interval?   uint32
|    | | +--rw delays
|    | |    +--rw delay* [start-delay min-delay max-delay]
|    | |       +--rw start-delay    -> ../config/start-delay
|    | |       +--rw min-delay      -> ../config/min-delay
|    | |       +--rw max-delay      -> ../config/max-delay
|    | |       +--rw config
|    | |       | +--rw start-delay?   uint32
|    | |       | +--rw min-delay?     uint32
|    | |       | +--rw max-delay?     uint32
```


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```
|    | |       +--ro state
|    | |         +--ro start-delay?   uint32
|    | |         +--ro min-delay?     uint32
|    | |         +--ro max-delay?     uint32
|    | +--rw spf
|    |    +--rw delay
|    |       +--rw config!
|    |       | +--rw min-delay    uint32
|    |       | +--rw max-delay    uint32
|    |       +--ro state
|    |         +--ro min-delay    uint32
|    |         +--ro max-delay    uint32
|    +--rw redistribute
|    | +--rw config
|    | | +--rw default-metric?   uint32
|    | +--ro state
|    | | +--ro default-metric?   uint32
|    | +--rw routing-protocols
|    | | +--rw routing-protocol* [protocol]
|    | |    +--rw protocol    -> ../config/protocol
|    | |    +--rw config
|    | |    | +--rw protocol?      ipi-ospf-types:ospf_route_source_type_t
|    | |    | +--rw metric?        uint32
|    | |    | +--rw metric-type?   ipi-ospf-types:ospf_metric_type_t
|    | |    | +--rw route-map?     string
|    | |    | +--rw tag?           uint32
|    | |    +--ro state
|    | |       +--ro protocol?      ipi-ospf-types:ospf_route_source_type_t
|    | |       +--ro metric?        uint32
|    | |       +--ro metric-type?   ipi-ospf-types:ospf_metric_type_t
|    | |       +--ro route-map?     string
|    | |       +--ro tag?           uint32
|    | +--rw ospf-processes
|    | | +--rw ospf-process* [ospf-process-id]
|    | |    +--rw ospf-process-id    -> ../config/ospf-process-id
|    | |    +--rw config
```

```
|    | |    | +--rw ospf-process-id?   uint16
|    | |    | +--rw metric?            uint32
|    | |    | +--rw metric-type?       ipi-ospf-types:ospf_metric_type_t
|    | |    | +--rw route-map?         string
|    | |    | +--rw tag?               uint32
|    | |    +--ro state
|    | |      +--ro ospf-process-id?   uint16
|    | |      +--ro metric?            uint32
|    | |      +--ro metric-type?       ipi-ospf-types:ospf_metric_type_t
|    | |      +--ro route-map?         string
|    | |      +--ro tag?               uint32
|    | +--rw isis-processes
|    |    +--rw isis-process* [isis-process-id]
|    |      +--rw isis-process-id    -> ../config/isis-process-id
|    |      +--rw config
|    |      | +--rw isis-process-id?   string
|    |      | +--rw metric?            uint32
|    |      | +--rw metric-type?       ipi-ospf-types:ospf_metric_type_t
|    |      | +--rw route-map?         string
|    |      | +--rw tag?               uint32
|    |      +--ro state
|    |        +--ro isis-process-id?   string
|    |        +--ro metric?            uint32
|    |        +--ro metric-type?       ipi-ospf-types:ospf_metric_type_t
|    |        +--ro route-map?         string
|    |        +--ro tag?               uint32
|    +--ro originate-lsa
|    | +--ro router-id?        -> /ospfv2/processes/process/state/router-id
|    | +--ro lsdb-area-id?     inet:ipv4-address
|    | +--ro lsdb-type?        ipi-ospf-types:ospf_lsdb_type_t
|    | +--ro lsdb-id?          inet:ipv4-address
|    | +--ro lsdb-router-id?   inet:ipv4-address
|    +--rw max-metric {feature-list:HAVE_OSPF_STUB_ROUTER}?
|    | +--rw config!
|    | | +--rw enable-max-router-lsa    empty
|    | | +--rw max-external-lsa?        uint32
```


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```
|    | | +--rw max-summary-lsa?         uint32
|    | | +--rw include-stub?            empty
|    | +--ro state
|    |    +--ro enable-max-router-lsa    empty
|    |    +--ro max-external-lsa?        uint32
|    |    +--ro max-summary-lsa?         uint32
|    |    +--ro include-stub?            empty
|    +--rw max-metric-on-startup {feature-list:HAVE_OSPF_STUB_ROUTER}?
|    | +--rw config!
|    | | +--rw max-on-startup                uint32
|    | | +--rw max-on-startup-external-lsa?   uint32
|    | | +--rw max-on-startup-summary-lsa?    uint32
|    | | +--rw on-startup-include-stub?       empty
|    | +--ro state
|    |    +--ro max-on-startup                uint32
|    |    +--ro max-on-startup-external-lsa?   uint32
|    |    +--ro max-on-startup-summary-lsa?    uint32
|    |    +--ro on-startup-include-stub?       empty
|    +--rw capability-entropy {feature-list:HAVE_SR_MPLS}?
|    | +--rw config
|    | | +--rw entropy-capability?   empty
|    | +--ro state
|    |    +--ro entropy-capability?   empty
|    +--ro discovered-neighbors
|       +--ro discovered-neighbor* [nbr-address]
|          +--ro nbr-address    -> ../state/nbr-address
|          +--ro state
|             +--ro nbr-address?     inet:ipv4-address
|             +--ro nbr-router-id?   inet:ipv4-address
|             +--ro nbr-priority?    uint8
|             +--ro nbr-state?       cml-data-types:cml_line_t
|             +--ro dead-time?       string
|             +--ro if-name?         string
|             +--ro instanceid?      uint8
+--rw traffic-engineering-links {feature-list:HAVE_OSPF_TE,feature-list:HAVE_GMPLS}?
|  +--rw traffic-engineering-link* [teName]
```

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```
|    +--rw teName      -> ../config/teName
|    +--rw config
|    |  +--rw teName?               string
|    |  +--rw metric?               uint16
|    |  +--rw link-local-exchange?   empty
|    +--ro state
|    |  +--ro teName?               string
|    |  +--ro metric?               uint16
|    |  +--ro link-local-exchange?   empty
|    +--rw flooding
|       +--rw ospfv2-processes
|          +--rw ospfv2-process* [ospf-process-id area-id]
|             +--rw ospf-process-id    -> ../config/ospf-process-id
|             +--rw area-id            -> ../config/area-id
|             +--rw config
|             |  +--rw ospf-process-id?   uint16
|             |  +--rw area-id?           ipi-ospf-types:ospf_area_t
|             +--ro state
|                +--ro ospf-process-id?   uint16
|                +--ro area-id?           ipi-ospf-types:ospf_area_t
+--rw multi-area-interfaces {feature-list:HAVE_OSPF_MULTI_AREA}?
|  +--rw multi-area-interface* [name]
|    +--rw name                -> ../config/name
|    +--rw config
|    |  +--rw name?   -> /ipi-interface:interfaces/interface/name
|    +--ro state
|    |  +--ro name?   -> /ipi-interface:interfaces/interface/name
|    +--rw ospfv2-processes
|       +--rw ospfv2-process* [ospf-process-id]
|          +--rw ospf-process-id          -> ../config/ospf-process-id
|          +--rw config
|          |  +--rw ospf-process-id?   uint16
|          +--ro state
|          |  +--ro ospf-process-id?   uint16
|          +--rw multi-areas
|          |  +--rw multi-area* [area-id]
```


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```
|          |    +--rw area-id    -> ../config/area-id
|          |    +--rw config
|          |    | +--rw area-id?   ipi-ospf-types:ospf_area_t
|          |    +--ro state
|          |      +--ro area-id?   ipi-ospf-types:ospf_area_t
|          +--rw multi-areas-neighbors
|            +--rw multi-area-neighbor* [area-id]
|              +--rw area-id    -> ../config/area-id
|              +--rw config
|              | +--rw area-id?    ipi-ospf-types:ospf_area_t
|              | +--rw neighbor    inet:ipv4-address
|              +--ro state
|                +--ro area-id?    ipi-ospf-types:ospf_area_t
|                +--ro neighbor    inet:ipv4-address
+--rw debug
| +--rw config
| | +--rw bfd?                    empty {feature-list:HAVE_BFD}?
| | +--rw rate-limit?             empty
| | +--rw segment-routing?          empty {feature-list:HAVE_SR_MPLS}?
| | +--rw route?                  ipi-ospf-types:ospf_debug_route_t
| | +--rw rib?                    ipi-ospf-types:ospf_debug_rib_t {feature-list:HAVE_RIBD}?
| | +--rw nsm?                    ipi-ospf-types:ospf_debug_nsm_t
| | +--rw nfsm?                   ipi-ospf-types:ospf_debug_nfsm_t
| | +--rw lsa?                    ipi-ospf-types:ospf_debug_lsa_t
| | +--rw ifsm?                   ipi-ospf-types:ospf_debug_ifsm_t
| | +--rw events?                 ipi-ospf-types:ospf_debug_event_t
| | +--rw cspf-events?              empty {feature-list:HAVE_OSPF_CSPF}?
| | +--rw cspf-hexdump?             empty {feature-list:HAVE_OSPF_CSPF}?
| | +--rw retransmission?           empty
| | +--rw distribute?             empty {feature-list:HAVE_BGP_LS}?
| | +--rw topology-independent-lfa?   empty {feature-list:HAVE_OSPF_TI_LFA}?
| | +--rw lfa?                    empty {feature-list:HAVE_OSPF_LFA}?
| | +--rw policy?                 empty
| | +--rw redistribute?           ipi-ospf-types:ospf_debug_redist_t
| | +--rw graceful-restart?       ipi-ospf-types:ospf_debug_graceful_t
| | +--rw packet-hello?           ipi-ospf-types:ospf_debug_packet_options_t
```

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```
| | +--rw packet-dd?                ipi-ospf-types:ospf_debug_packet_options_t
| | +--rw packet-ls-request?        ipi-ospf-types:ospf_debug_packet_options_t
| | +--rw packet-ls-update?         ipi-ospf-types:ospf_debug_packet_options_t
| | +--rw packet-ls-ack?            ipi-ospf-types:ospf_debug_packet_options_t
| +--ro state
|    +--ro bfd?                     empty {feature-list:HAVE_BFD}?
|    +--ro rate-limit?              empty
|    +--ro segment-routing?         empty {feature-list:HAVE_SR_MPLS}?
|    +--ro route?                   ipi-ospf-types:ospf_debug_route_t
|    +--ro rib?                     ipi-ospf-types:ospf_debug_rib_t {feature-list:HAVE_RIBD}?
|    +--ro nsm?                     ipi-ospf-types:ospf_debug_nsm_t
|    +--ro nfsm?                    ipi-ospf-types:ospf_debug_nfsm_t
|    +--ro lsa?                     ipi-ospf-types:ospf_debug_lsa_t
|    +--ro ifsm?                    ipi-ospf-types:ospf_debug_ifsm_t
|    +--ro events?                  ipi-ospf-types:ospf_debug_event_t
|    +--ro cspf-events?             empty {feature-list:HAVE_OSPF_CSPF}?
|    +--ro cspf-hexdump?            empty {feature-list:HAVE_OSPF_CSPF}?
|    +--ro retransmission?          empty
|    +--ro distribute?              empty {feature-list:HAVE_BGP_LS}?
|    +--ro topology-independent-lfa?   empty {feature-list:HAVE_OSPF_TI_LFA}?
|    +--ro lfa?                     empty {feature-list:HAVE_OSPF_LFA}?
|    +--ro policy?                  empty
|    +--ro redistribute?            ipi-ospf-types:ospf_debug_redist_t
|    +--ro graceful-restart?        ipi-ospf-types:ospf_debug_graceful_t
|    +--ro packet-hello?            ipi-ospf-types:ospf_debug_packet_options_t
|    +--ro packet-dd?               ipi-ospf-types:ospf_debug_packet_options_t
|    +--ro packet-ls-request?       ipi-ospf-types:ospf_debug_packet_options_t
|    +--ro packet-ls-update?        ipi-ospf-types:ospf_debug_packet_options_t
|    +--ro packet-ls-ack?           ipi-ospf-types:ospf_debug_packet_options_t
|    +--ro terminal-debug-status
|       +--ro bfd?                  cml-data-types:cml_on_off_t {feature-list:HAVE_BFD}?
|       +--ro rate-limit?           cml-data-types:cml_on_off_t
|       +--ro segment-routing?      cml-data-types:cml_on_off_t {feature-list:HAVE_SR_MPLS}?
|       +--ro route?                ipi-ospf-types:ospf_debug_route_t
|       +--ro rib?                  ipi-ospf-types:ospf_debug_rib_t {feature-list:HAVE_RIBD}?
|       +--ro nsm?                  ipi-ospf-types:ospf_debug_nsm_t
```


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```
|       +--ro nfsm?                    ipi-ospf-types:ospf_debug_nfsm_t
|       +--ro lsa?                     ipi-ospf-types:ospf_debug_lsa_t
|       +--ro ifsm?                    ipi-ospf-types:ospf_debug_ifsm_t
|       +--ro events?                  ipi-ospf-types:ospf_debug_event_t
|       +--ro cspf-events?             cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_CSPF}?
|       +--ro cspf-hexdump?            cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_CSPF}?
|       +--ro retransmission?          cml-data-types:cml_on_off_t
|       +--ro distribute?              cml-data-types:cml_on_off_t {feature-list:HAVE_BGP_LS}?
|       +--ro topology-independent-lfa?   cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_TI_LFA}?
|       +--ro lfa?                     cml-data-types:cml_on_off_t {feature-list:HAVE_OSPF_LFA}?
|       +--ro policy?                  cml-data-types:cml_on_off_t
|       +--ro redistribute?            ipi-ospf-types:ospf_debug_redist_t
|       +--ro graceful-restart?        ipi-ospf-types:ospf_debug_graceful_t
|       +--ro packet-hello?            ipi-ospf-types:ospf_debug_packet_options_t
|       +--ro packet-dd?               ipi-ospf-types:ospf_debug_packet_options_t
|       +--ro packet-ls-request?       ipi-ospf-types:ospf_debug_packet_options_t
|       +--ro packet-ls-update?        ipi-ospf-types:ospf_debug_packet_options_t
|       +--ro packet-ls-ack?           ipi-ospf-types:ospf_debug_packet_options_t
    +--rw interfaces
      +--rw interface* [name]
        +--rw name              -> ../config/name
        +--rw config
        |  +--rw cost?                    uint16
        |  +--rw priority?                uint8
        |  +--rw mtu-ignore?                 empty
        |  +--rw name?                    -> /ipi-interface:interfaces/interface/name
        |  +--rw network-type?               ipi-ospf-types:ospf_network_t
        |  +--rw disable-all-ospf?           empty
        |  +--rw traffic-engineering-metric?   uint16 {feature-list:HAVE_OSPF_TE}?
        |  +--rw mtu?                     uint16
        |  +--rw enable-flood-reduction?       empty
        |  +--rw enable-demand-circuit?        empty {feature-list:HAVE_OSPF_OD,feature-
list:HAVE_OSPF_MULTI_INST}?
        |  +--rw enable-bfd?                ipi-ospf-types:ospf_bfd_state {feature-list:HAVE_BFD}?
        |  +--rw disable-fast-reroute?         empty {feature-list:HAVE_OSPF_LFA}?
        +--ro state
        |  +--ro cost?                    uint16
```

```
        |  +--ro priority?                  uint8
        |  +--ro mtu-ignore?                empty
        |  +--ro name?                      -> /ipi-interface:interfaces/interface/name
        |  +--ro network-type?              ipi-ospf-types:ospf_network_t
        |  +--ro disable-all-ospf?          empty
        |  +--ro traffic-engineering-metric?   uint16 {feature-list:HAVE_OSPF_TE}?
        |  +--ro mtu?                       uint16
        |  +--ro enable-flood-reduction?    empty
        |  +--ro enable-demand-circuit?     empty {feature-list:HAVE_OSPF_OD,feature-
list:HAVE_OSPF_MULTI_INST}?
        |  +--ro enable-bfd?                ipi-ospf-types:ospf_bfd_state {feature-list:HAVE_BFD}?
        |  +--ro disable-fast-reroute?      empty {feature-list:HAVE_OSPF_LFA}?
        |  +--ro link-state-change
        |  |  +--ro router-id?              inet:ipv4-address
        |  |  +--ro name?                   string
        |  |  +--ro interface-address?      inet:ipv4-address
        |  |  +--ro address-less-interface?   uint32
        |  |  +--ro interface-state?        ipi-ospf-types:ospf_interface_state_t
        |  +--ro rx-bad-packet
        |  |  +--ro router-id?              inet:ipv4-address
        |  |  +--ro name?                   string
        |  |  +--ro interface-address?      inet:ipv4-address
        |  |  +--ro address-less-interface?   uint32
        |  |  +--ro packet-src?             inet:ipv4-address
        |  |  +--ro packet-type?            ipi-ospf-types:ospf_packet_type_t
        |  +--ro interface-config-error
        |     +--ro router-id?              inet:ipv4-address
        |     +--ro name?                   string
        |     +--ro interface-address?      inet:ipv4-address
        |     +--ro address-less-interface?   uint32
        |     +--ro error-type?             ipi-ospf-types:ospf_config_error_type_t
        |     +--ro packet-type?            ipi-ospf-types:ospf_packet_type_t
        +--ro interface-states
        |  +--ro state
        |  |  +--ro interface-state?        int32
        |  |  +--ro lsa-count?              int32
        |  |  +--ro lsa-checksum?           int32
```


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```
| | +--ro interface-events?        int32
| | +--ro addressless-interface?   int32
| +--ro statistics
| | +--ro errors
| | | +--ro discarded-in?             yang:counter64
| | | +--ro discarded-out?            yang:counter64
| | | +--ro hello-in?                 yang:counter64
| | | +--ro database-descriptor-in?   yang:counter64
| | | +--ro ls-request-in?            yang:counter64
| | | +--ro ls-update-in?             yang:counter64
| | | +--ro ls-acknowledge-in?        yang:counter64
| | | +--ro unknown-in?               yang:counter64
| | | +--ro unknown-out?              yang:counter64
| | | +--ro bad-version?              yang:counter64
| | | +--ro bad-crc?                  yang:counter64
| | | +--ro invalid-source?           yang:counter64
| | | +--ro invalid-destination?      yang:counter64
| | | +--ro no-neighbor?              yang:counter64
| | | +--ro passive?                  yang:counter64
| | | +--ro wrong-area?               yang:counter64
| | | +--ro packet-length?            yang:counter64
| | | +--ro authentication?           yang:counter64
| | +--ro traffic
| |    +--ro total-packets-in?                 yang:counter64
| |    +--ro total-packets-out?                yang:counter64
| |    +--ro hello-packets-in?                 yang:counter64
| |    +--ro hello-packets-out?                yang:counter64
| |    +--ro database-descriptor-packets-in?   yang:counter64
| |    +--ro database-descriptor-packets-out?  yang:counter64
| |    +--ro ls-request-packets-in?            yang:counter64
| |    +--ro ls-request-packets-out?           yang:counter64
| |    +--ro ls-update-packets-in?             yang:counter64
| |    +--ro ls-update-packets-out?            yang:counter64
| |    +--ro ls-acknowledge-packets-in?        yang:counter64
| |    +--ro ls-acknowledge-packets-out?       yang:counter64
| +--ro designated-router
```

```
| | +--ro state
| |    +--ro router-id?   inet:ipv4-address
| |    +--ro address?     inet:ipv4-address
| +--ro backup-designated-router
| | +--ro state
| |    +--ro router-id?   inet:ipv4-address
| |    +--ro address?     inet:ipv4-address
| +--ro timers
|    +--ro state
|       +--ro runtime-dead-interval?   uint32
+--rw authentication
| +--rw config
| | +--rw authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
| | +--rw key?                   ipi-ospf-types:ospf_md5_password_t
| +--ro state
| | +--ro authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
| | +--ro key?                   ipi-ospf-types:ospf_md5_password_t
| +--rw message-digests
|    +--rw message-digest* [message-digest-id]
|       +--rw message-digest-id    -> ../config/message-digest-id
|       +--rw config
|       | +--rw message-digest-id?               uint8
|       | +--rw message-digest-encryption-type    ipi-ospf-types:ospf_cipher_type_t
|       | +--rw message-digest-key                ipi-ospf-types:ospf_md5_password_t
|       +--ro state
|          +--ro message-digest-id?               uint8
|          +--ro message-digest-encryption-type    ipi-ospf-types:ospf_cipher_type_t
|          +--ro message-digest-key                ipi-ospf-types:ospf_md5_password_t
+--rw database-filter
| +--rw lsa
|    +--rw config
|    | +--rw filter-out?   empty
|    +--ro state
|       +--ro filter-out?   empty
+--rw timers
| +--rw config
```


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```
| |  +--rw dead-interval?             uint16
| |  +--rw hello-interval?            uint16
| |  +--rw retransmission-interval?   uint16
| |  +--rw transmit-delay?            uint16
| |  +--rw resync-timeout?            uint16
| |  +--rw ldp-igp-sync-enable?       empty {feature-list:HAVE_LDPD}?
| |  +--rw holddown-timer?            uint32 {feature-list:HAVE_LDPD}?
| +--ro state
|    +--ro dead-interval?             uint16
|    +--ro hello-interval?            uint16
|    +--ro retransmission-interval?   uint16
|    +--ro transmit-delay?            uint16
|    +--ro resync-timeout?            uint16
|    +--ro ldp-igp-sync-enable?       empty {feature-list:HAVE_LDPD}?
|    +--ro holddown-timer?            uint32 {feature-list:HAVE_LDPD}?
+--rw addresses
  +--rw address* [interface-address]
     +--rw interface-address    -> ../config/interface-address
     +--rw config
     | +--rw interface-address?   inet:ipv4-address
     | +--rw cost?               uint16
     | +--rw priority?           uint8
     | +--rw mtu-ignore?         empty
     +--ro state
     | +--ro interface-address?         inet:ipv4-address
     | +--ro cost?                      uint16
     | +--ro priority?                  uint8
     | +--ro mtu-ignore?                empty
     | +--ro designated-router
     | | +--ro state
     | |    +--ro router-id?   inet:ipv4-address
     | |    +--ro address?     inet:ipv4-address
     | +--ro backup-designated-router
     | | +--ro state
     | |    +--ro router-id?   inet:ipv4-address
     | |    +--ro address?     inet:ipv4-address
```

```
|  +--ro timers
|     +--ro state
|        +--ro runtime-dead-interval?   uint32
+--rw authentication
|  +--rw config
|  |  +--rw authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
|  |  +--rw key?                   ipi-ospf-types:ospf_md5_password_t
|  +--ro state
|  |  +--ro authentication-type?   ipi-ospf-types:ospf_if_authentication_type_t
|  |  +--ro key?                   ipi-ospf-types:ospf_md5_password_t
|  +--rw message-digests
|     +--rw message-digest* [message-digest-id]
|        +--rw message-digest-id    -> ../config/message-digest-id
|        +--rw config
|        |  +--rw message-digest-id?                uint8
|        |  +--rw message-digest-encryption-type    ipi-ospf-types:ospf_cipher_type_t
|        |  +--rw message-digest-key                ipi-ospf-types:ospf_md5_password_t
|        +--ro state
|           +--ro message-digest-id?                uint8
|           +--ro message-digest-encryption-type    ipi-ospf-types:ospf_cipher_type_t
|           +--ro message-digest-key                ipi-ospf-types:ospf_md5_password_t
+--rw timers
|  +--rw config
|  |  +--rw dead-interval?             uint16
|  |  +--rw hello-interval?            uint16
|  |  +--rw retransmission-interval?   uint16
|  |  +--rw transmit-delay?            uint16
|  |  +--rw resync-timeout?            uint16
|  +--ro state
|     +--ro dead-interval?             uint16
|     +--ro hello-interval?            uint16
|     +--ro retransmission-interval?   uint16
|     +--ro transmit-delay?            uint16
|     +--ro resync-timeout?            uint16
+--rw database-filter
   +--rw lsa
```


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```
                +--rw config
                |  +--rw filter-out?   empty
                +--ro state
                   +--ro filter-out?   empty


rpcs:
  +---x ospfv2-terminal-debug-ospf-all-on {feature-list:HAVE_OSPFD}?
  +---x ospfv2-terminal-debug-ospf-all-off {feature-list:HAVE_OSPFD}?
  +---x ospfv2-terminal-debug-bfd-on {feature-list:HAVE_BFD}?
  +---x ospfv2-terminal-debug-bfd-off {feature-list:HAVE_BFD}?
  +---x ospfv2-terminal-debug-rate-limit-on {feature-list:HAVE_OSPFD}?
  +---x ospfv2-terminal-debug-rate-limit-off {feature-list:HAVE_OSPFD}?
  +---x ospfv2-terminal-debug-sr-on {feature-list:HAVE_SR_MPLS}?
  +---x ospfv2-terminal-debug-sr-off {feature-list:HAVE_SR_MPLS}?
  +---x ospfv2-terminal-debug-route-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w route    ipi-ospf-types:ospf_debug_route_t
  +---x ospfv2-terminal-debug-route-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w route    ipi-ospf-types:ospf_debug_route_t
  +---x ospfv2-terminal-debug-rib-on {feature-list:HAVE_RIBD}?
  |  +---w input
  |     +---w rib    ipi-ospf-types:ospf_debug_rib_t
  +---x ospfv2-terminal-debug-rib-off {feature-list:HAVE_RIBD}?
  |  +---w input
  |     +---w rib    ipi-ospf-types:ospf_debug_rib_t
  +---x ospfv2-terminal-debug-packet-all-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w all    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-all-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w all    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-hello-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w hello    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-hello-off {feature-list:HAVE_OSPFD}?
```

```
  |  +---w input
  |     +---w hello    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-dd-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w dd    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-dd-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w dd    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-ls-request-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w ls-request    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-ls-request-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w ls-request    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-ls-update-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w ls-update    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-ls-update-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w ls-update    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-ls-ack-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w ls-ack    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-packet-ls-ack-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w ls-ack    ipi-ospf-types:ospf_debug_packet_options_t
  +---x ospfv2-terminal-debug-nsm-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w nsm    ipi-ospf-types:ospf_debug_nsm_t
  +---x ospfv2-terminal-debug-nsm-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w nsm    ipi-ospf-types:ospf_debug_nsm_t
  +---x ospfv2-terminal-debug-nfsm-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w nfsm    ipi-ospf-types:ospf_debug_nfsm_t
  +---x ospfv2-terminal-debug-nfsm-off {feature-list:HAVE_OSPFD}?
```


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```
|  +---w input
|     +---w nfsm    ipi-ospf-types:ospf_debug_nfsm_t
+---x ospfv2-terminal-debug-lsa-on {feature-list:HAVE_OSPFD}?
|  +---w input
|     +---w lsa    ipi-ospf-types:ospf_debug_lsa_t
+---x ospfv2-terminal-debug-lsa-off {feature-list:HAVE_OSPFD}?
|  +---w input
|     +---w lsa    ipi-ospf-types:ospf_debug_lsa_t
+---x ospfv2-terminal-debug-ifsm-on {feature-list:HAVE_OSPFD}?
|  +---w input
|     +---w ifsm    ipi-ospf-types:ospf_debug_ifsm_t
+---x ospfv2-terminal-debug-ifsm-off {feature-list:HAVE_OSPFD}?
|  +---w input
|     +---w ifsm    ipi-ospf-types:ospf_debug_ifsm_t
+---x ospfv2-terminal-debug-events-on {feature-list:HAVE_OSPFD}?
|  +---w input
|     +---w events    ipi-ospf-types:ospf_debug_event_t
+---x ospfv2-terminal-debug-events-off {feature-list:HAVE_OSPFD}?
|  +---w input
|     +---w events    ipi-ospf-types:ospf_debug_event_t
+---x ospfv2-terminal-debug-cspf-all-on {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-all-off {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-events-on {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-events-off {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-hexdump-on {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-cspf-hexdump-off {feature-list:HAVE_OSPF_CSPF}?
+---x ospfv2-terminal-debug-all-on {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-all-off {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-retransmission-on {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-retransmission-off {feature-list:HAVE_OSPFD}?
+---x ospfv2-terminal-debug-dist-ls-on {feature-list:HAVE_BGP_LS}?
+---x ospfv2-terminal-debug-dist-ls-off {feature-list:HAVE_BGP_LS}?
+---x ospfv2-terminal-debug-topology-independent-lfa-on {feature-list:HAVE_OSPF_TI_LFA}?
+---x ospfv2-terminal-debug-topology-independent-lfa-off {feature-list:HAVE_OSPF_TI_LFA}?
+---x ospfv2-terminal-debug-lfa-on {feature-list:HAVE_OSPF_LFA}?
+---x ospfv2-terminal-debug-lfa-off {feature-list:HAVE_OSPF_LFA}?
```

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```
  +---x ospfv2-terminal-debug-policy-on {feature-list:HAVE_OSPFD}?
  +---x ospfv2-terminal-debug-policy-off {feature-list:HAVE_OSPFD}?
  +---x ospfv2-terminal-debug-redistribute-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w redistribute    ipi-ospf-types:ospf_debug_redist_t
  +---x ospfv2-terminal-debug-redistribute-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w redistribute    ipi-ospf-types:ospf_debug_redist_t
  +---x ospfv2-terminal-debug-graceful-restart-on {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w graceful-restart    ipi-ospf-types:ospf_debug_graceful_t
  +---x ospfv2-terminal-debug-graceful-restart-off {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w graceful-restart    ipi-ospf-types:ospf_debug_graceful_t
  +---x ospfv2-clear-process {feature-list:HAVE_OSPFD}?
  |  +---w input
  |     +---w process-id    uint16
  +---x ospfv2-clear-process-all {feature-list:HAVE_OSPFD}?
  +---x ospfv2-restart-graceful {feature-list:HAVE_RESTART}?
  |  +---w input
  |     +---w grace-period    uint16
  +---x ospfv2-snmp-restart {feature-list:HAVE_SNMP}?

 notifications:
  +---n ospfv2-neighbor-state-change
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro address?                     inet:ipv4-address
  |  +--ro ospf-id?                     uint16
  |  +--ro router-id?                   inet:ipv4-address
  |  +--ro neighbor-address-less-index?   uint32
  |  +--ro neighbor-router-id?          inet:ipv4-address
  |  +--ro neighbor-state?              ipi-ospf-types:ospf_neighbor_state_change_t
  +---n ospfv2-tx-retransmit
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
```


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```
|  +--ro address?                    inet:ipv4-address
|  +--ro ospf-id?                    uint16
|  +--ro router-id?                  inet:ipv4-address
|  +--ro neighbor-address-less-index?   uint32
|  +--ro neighbor-router-id?         inet:ipv4-address
|  +--ro packet-type?                ipi-ospf-types:ospf_packet_type_t
|  +--ro lsdb-type?                  ipi-ospf-types:ospf_lsdb_type_t
|  +--ro lsdb-lsid?                  inet:ipv4-address
|  +--ro lsdb-router-id?             inet:ipv4-address
+---n ospfv2-originate-lsa
|  +--ro severity?         cml-data-types:cml_notif_severity_t
|  +--ro eventClass?       cml-data-types:cml_notif_class_t
|  +--ro ospf-id?          uint16
|  +--ro router-id?        inet:ipv4-address
|  +--ro lsdb-area-id?     inet:ipv4-address
|  +--ro lsdb-type?        ipi-ospf-types:ospf_lsdb_type_t
|  +--ro lsdb-id?          inet:ipv4-address
|  +--ro lsdb-router-id?   inet:ipv4-address
+---n ospfv2-lsdb-overflow-external-lsa
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro ospf-id?      uint16
|  +--ro router-id?    inet:ipv4-address
|  +--ro max-limit?    uint32
+---n ospfv2-virtual-link-interface-config-error
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro remote-router-id?   inet:ipv4-address
|  +--ro area-id?           ipi-ospf-types:ospf_area_t
|  +--ro ospf-id?           uint16
|  +--ro router-id?         inet:ipv4-address
|  +--ro error-type?        ipi-ospf-types:ospf_config_error_type_t
|  +--ro packet-type?       ipi-ospf-types:ospf_packet_type_t
+---n ospfv2-virtual-link-interface-state-change
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
```

```
  |  +--ro remote-router-id?   inet:ipv4-address
  |  +--ro area-id?            ipi-ospf-types:ospf_area_t
  |  +--ro ospf-id?            uint16
  |  +--ro router-id?          inet:ipv4-address
  |  +--ro interface-state?    ipi-ospf-types:ospf_interface_state_t
  +---n ospfv2-virtual-neighbor-state-change
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro remote-router-id?   inet:ipv4-address
  |  +--ro area-id?            ipi-ospf-types:ospf_area_t
  |  +--ro ospf-id?            uint16
  |  +--ro router-id?          inet:ipv4-address
  |  +--ro neighbor-state?     ipi-ospf-types:ospf_neighbor_state_change_t
  +---n ospfv2-virtual-link-interface-rx-bad-packet
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro remote-router-id?   inet:ipv4-address
  |  +--ro area-id?            ipi-ospf-types:ospf_area_t
  |  +--ro ospf-id?            uint16
  |  +--ro router-id?          inet:ipv4-address
  |  +--ro packet-type?        ipi-ospf-types:ospf_packet_type_t
  +---n ospfv2-virtual-link-interface-tx-retransmit
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro remote-router-id?   inet:ipv4-address
  |  +--ro area-id?            ipi-ospf-types:ospf_area_t
  |  +--ro ospf-id?            uint16
  |  +--ro router-id?          inet:ipv4-address
  |  +--ro packet-type?        ipi-ospf-types:ospf_packet_type_t
  |  +--ro lsdb-type?          ipi-ospf-types:ospf_lsdb_type_t
  |  +--ro lsdb-lsid?          inet:ipv4-address
  |  +--ro lsdb-router-id?     inet:ipv4-address
  +---n ospfv2-interface-link-state-change
  |  +--ro severity?               cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?             cml-data-types:cml_notif_class_t
  |  +--ro name?                   string
```


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```
|  +--ro router-id?               inet:ipv4-address
|  +--ro interface-address?       inet:ipv4-address
|  +--ro address-less-interface?  uint32
|  +--ro interface-state?         ipi-ospf-types:ospf_interface_state_t
+---n ospfv2-interface-rx-bad-packet
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro router-id?               inet:ipv4-address
|  +--ro interface-address?       inet:ipv4-address
|  +--ro address-less-interface?  uint32
|  +--ro packet-src?              inet:ipv4-address
|  +--ro packet-type?             ipi-ospf-types:ospf_packet_type_t
+---n ospfv2-interface-config-error
   +--ro severity?                cml-data-types:cml_notif_severity_t
   +--ro eventClass?              cml-data-types:cml_notif_class_t
   +--ro name?                    string
   +--ro router-id?               inet:ipv4-address
   +--ro interface-address?       inet:ipv4-address
   +--ro address-less-interface?  uint32
   +--ro error-type?              ipi-ospf-types:ospf_config_error_type_t
   +--ro packet-type?             ipi-ospf-types:ospf_packet_type_t
```

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ipi-ospfv3

```
  +--rw ospfv3
     +--rw global
     |  +--rw config
     |  |  +--rw display-route-on-single-line?   empty
     |  +--ro state
     |  |  +--ro display-route-on-single-line?   empty
     |  +--rw graceful-restart {feature-list:HAVE_RESTART}?
     |     +--rw config
     |     |  +--rw grace-period?              uint16
     |     |  +--rw controlled-restarts-only?   empty
     |     +--ro state
     |     |  +--ro grace-period?              uint16
     |     |  +--ro controlled-restarts-only?   empty
     |     +--rw helper
     |        +--rw config
     |        |  +--rw max-grace-period?        uint16
     |        |  +--rw disable-all-neighbors?   empty
     |        |  +--rw disable-neighbor*        inet:ipv4-address
     |        +--ro state
     |           +--ro max-grace-period?        uint16
     |           +--ro disable-all-neighbors?   empty
     |           +--ro disable-neighbor*        inet:ipv4-address
     +--rw processes
     |  +--rw process* [ospfv3-id]
     |     +--rw ospfv3-id                 -> ../config/ospfv3-id
     |     +--rw config
     |     |  +--rw ospfv3-id?                ipi-ospfv3-types:ospfv3_string_t
     |     |  +--rw vrf-name                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
     |     |  +--rw router-id?                inet:ipv4-address
     |     |  +--rw bfd-enable-all-interfaces?   empty {feature-list:HAVE_BFD}?
     |     |  +--rw database-summary?            empty
     |     |  +--rw area-border-type?            ipi-ospfv3-types:ospfv3_abr_type_t
     |     |  +--rw default-metric?              uint32
```


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```
    |    | +--rw shutdown?                  empty
    |    | +--rw log-adjacency-changes?     ipi-ospfv3-types:ospfv3_log_adj_opt_t
    |    | +--rw reference-bandwidth?       uint32
    |    | +--rw max-database-descriptors?  uint16
    |    +--ro state
    |    | +--ro statistics
    |    | | +--ro up-time?                 string
    |    | | +--ro database-description-in?  yang:counter64
    |    | | +--ro database-description-out?  yang:counter64
    |    | | +--ro external-lsa-count?      yang:counter64
    |    | | +--ro external-lsa-checksum?   string
    |    | | +--ro unknown-lsa-count?       yang:counter64
    |    | | +--ro lsa-out?                 yang:counter64
    |    | | +--ro lsa-in?                  yang:counter64
    |    | | +--ro area-count?              yang:counter64
    |    | +--ro ospfv3-id?                 ipi-ospfv3-types:ospfv3_string_t
    |    | +--ro vrf-name                   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
    |    | +--ro router-id?                 inet:ipv4-address
    |    | +--ro bfd-enable-all-interfaces?  empty {feature-list:HAVE_BFD}?
    |    | +--ro database-summary?          empty
    |    | +--ro area-border-type?          ipi-ospfv3-types:ospfv3_abr_type_t
    |    | +--ro default-metric?            uint32
    |    | +--ro shutdown?                  empty
    |    | +--ro log-adjacency-changes?     ipi-ospfv3-types:ospfv3_log_adj_opt_t
    |    | +--ro reference-bandwidth?       uint32
    |    | +--ro max-database-descriptors?  uint16
    |    +--ro link-state-database
    |    | +--ro link* [link-index]
    |    | | +--ro link-index    -> ../state/link-index
    |    | | +--ro lsa-prefix* [prefix]
    |    | | | +--ro prefix    -> ../state/prefix
    |    | | | +--ro state
    |    | | |    +--ro prefix?          cml-data-types:cml_ipv6_prefix_t
    |    | | |    +--ro no-unicast-bit?  empty
    |    | | |    +--ro prefix-options?  ipi-ospfv3-types:ospfv3_prefix_options_t
    |    | | +--ro state
```

```
|    | |    +--ro link-index?          uint32
|    | |    +--ro link-local-address?   inet:ipv6-address
|    | |    +--ro priority?            uint8
|    | |    +--ro interface-name?       string
|    | |    +--ro prefix-count?         uint32
|    | |    +--ro advertising-router?   inet:ipv4-address
|    | |    +--ro ls-age?              uint16
|    | |    +--ro ls-type?             ipi-ospfv3-types:ospfv3_ls_type_t
|    | |    +--ro ls-id?               string
|    | |    +--ro ls-sequence-number?   string
|    | |    +--ro ls-checksum?          string
|    | |    +--ro ls-length?           uint16
|    | |    +--ro ls-options?          ipi-ospfv3-types:ospfv3_ls_options_t
|    | +--ro router* [router-index]
|    | | +--ro router-index    -> ../state/router-index
|    | | +--ro link* [link-index]
|    | | | +--ro link-index    -> ../state/link-index
|    | | | +--ro state
|    | | | |    +--ro link-index?             uint32
|    | | | |    +--ro neighbor-router-id?      inet:ipv4-address
|    | | | |    +--ro neighbor-interface-id?   uint32
|    | | | |    +--ro interface-id?            uint32
|    | | | |    +--ro metric?                  uint16
|    | | | |    +--ro metric-type?             ipi-ospfv3-types:ospfv3_link_metric_type_t
|    | | +--ro state
|    | | |    +--ro router-index?          uint32
|    | | |    +--ro area-id?               inet:ipv4-address
|    | | |    +--ro ls-router-properties?   ipi-ospfv3-types:ospfv3_router_properties_t
|    | | |    +--ro advertising-router?     inet:ipv4-address
|    | | |    +--ro ls-age?                uint16
|    | | |    +--ro ls-type?               ipi-ospfv3-types:ospfv3_ls_type_t
|    | | |    +--ro ls-id?                 string
|    | | |    +--ro ls-sequence-number?     string
|    | | |    +--ro ls-checksum?            string
|    | | |    +--ro ls-length?             uint16
|    | | |    +--ro ls-options?            ipi-ospfv3-types:ospfv3_ls_options_t
```


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```
|    | +--ro network* [advertising-router]
|    | | +--ro advertising-router    -> ../state/advertising-router
|    | | +--ro state
|    | | |    +--ro advertising-router?   inet:ipv4-address
|    | | |    +--ro ls-age?               uint16
|    | | |    +--ro ls-type?              ipi-ospfv3-types:ospfv3_ls_type_t
|    | | |    +--ro ls-id?                string
|    | | |    +--ro ls-sequence-number?   string
|    | | |    +--ro ls-checksum?          string
|    | | |    +--ro ls-length?            uint16
|    | | |    +--ro ls-options?           ipi-ospfv3-types:ospfv3_ls_options_t
|    | | |    +--ro attached-router*      inet:ipv4-address
|    | +--ro intra-prefix* [intra-prefix-index]
|    | | +--ro intra-prefix-index    -> ../state/intra-prefix-index
|    | | +--ro lsa-prefix* [prefix]
|    | | | +--ro prefix    -> ../state/prefix
|    | | | +--ro state
|    | | | |    +--ro prefix?          cml-data-types:cml_ipv6_prefix_t
|    | | | |    +--ro no-unicast-bit?   empty
|    | | | |    +--ro prefix-options?   ipi-ospfv3-types:ospfv3_prefix_options_t
|    | | | |    +--ro metric?          uint16
|    | | +--ro state
|    | | |    +--ro intra-prefix-index?               uint32
|    | | |    +--ro area-id?                          inet:ipv4-address
|    | | |    +--ro referenced-ls-advertising-router?   inet:ipv4-address
|    | | |    +--ro referenced-ls-id?                 string
|    | | |    +--ro referenced-ls-type?               string
|    | | |    +--ro prefix-count?                     uint32
|    | | |    +--ro advertising-router?               inet:ipv4-address
|    | | |    +--ro ls-age?                           uint16
|    | | |    +--ro ls-type?                          ipi-ospfv3-types:ospfv3_ls_type_t
|    | | |    +--ro ls-id?                            string
|    | | |    +--ro ls-sequence-number?               string
|    | | |    +--ro ls-checksum?                      string
|    | | |    +--ro ls-length?                        uint16
|    | +--ro inter-prefix* [inter-prefix-index]
```

```
|    | | +--ro inter-prefix-index    -> ../state/inter-prefix-index
|    | | +--ro lsa-prefix* [prefix]
|    | | | +--ro prefix    -> ../state/prefix
|    | | | +--ro state
|    | | |    +--ro prefix?          cml-data-types:cml_ipv6_prefix_t
|    | | |    +--ro no-unicast-bit?   empty
|    | | |    +--ro prefix-options?   ipi-ospfv3-types:ospfv3_prefix_options_t
|    | | |    +--ro metric?           uint16
|    | | +--ro state
|    | |    +--ro inter-prefix-index?   uint32
|    | |    +--ro area-id?              inet:ipv4-address
|    | |    +--ro advertising-router?   inet:ipv4-address
|    | |    +--ro ls-age?               uint16
|    | |    +--ro ls-type?              ipi-ospfv3-types:ospfv3_ls_type_t
|    | |    +--ro ls-id?                string
|    | |    +--ro ls-sequence-number?   string
|    | |    +--ro ls-checksum?          string
|    | |    +--ro ls-length?            uint16
|    | +--ro inter-router* [inter-router-index]
|    | | +--ro inter-router-index    -> ../state/inter-router-index
|    | | +--ro state
|    | |    +--ro inter-router-index?   uint32
|    | |    +--ro area-id?              inet:ipv4-address
|    | |    +--ro router-id?            inet:ipv4-address
|    | |    +--ro advertising-router?   inet:ipv4-address
|    | |    +--ro ls-age?               uint16
|    | |    +--ro ls-type?              ipi-ospfv3-types:ospfv3_ls_type_t
|    | |    +--ro ls-id?                string
|    | |    +--ro ls-sequence-number?   string
|    | |    +--ro ls-checksum?          string
|    | |    +--ro ls-length?            uint16
|    | |    +--ro metric?               uint16
|    | |    +--ro ls-options?           ipi-ospfv3-types:ospfv3_ls_options_t
|    | +--ro external* [external-index]
|    | | +--ro external-index    -> ../state/external-index
|    | | +--ro lsa-prefix* [prefix]
```


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```
|    | | | +--ro prefix    -> ../state/prefix
|    | | | +--ro state
|    | | |    +--ro prefix?          cml-data-types:cml_ipv6_prefix_t
|    | | |    +--ro no-unicast-bit?   empty
|    | | |    +--ro prefix-options?   ipi-ospfv3-types:ospfv3_prefix_options_t
|    | | +--ro state
|    | |    +--ro external-index?       uint32
|    | |    +--ro referenced-ls-id?     string
|    | |    +--ro referenced-ls-type?   uint32
|    | |    +--ro route-tag?            uint32
|    | |    +--ro forwarding-address?   inet:ip-address
|    | |    +--ro metric?               uint16
|    | |    +--ro metric-type?          ipi-ospfv3-types:ospfv3_ls_metric_type_t
|    | |    +--ro advertising-router?   inet:ipv4-address
|    | |    +--ro ls-age?               uint16
|    | |    +--ro ls-type?              ipi-ospfv3-types:ospfv3_ls_type_t
|    | |    +--ro ls-id?                string
|    | |    +--ro ls-sequence-number?   string
|    | |    +--ro ls-checksum?          string
|    | |    +--ro ls-length?            uint16
|    | +--ro not-so-stubby-area* [nssa-index]
|    |    +--ro nssa-index    -> ../state/nssa-index
|    |    +--ro lsa-prefix* [prefix]
|    |    | +--ro prefix    -> ../state/prefix
|    |    | +--ro state
|    |    |    +--ro prefix?          cml-data-types:cml_ipv6_prefix_t
|    |    |    +--ro no-unicast-bit?   empty
|    |    |    +--ro prefix-options?   ipi-ospfv3-types:ospfv3_prefix_options_t
|    |    +--ro state
|    |       +--ro nssa-index?          uint32
|    |       +--ro referenced-ls-id?     string
|    |       +--ro referenced-ls-type?   uint32
|    |       +--ro route-tag?            uint32
|    |       +--ro forwarding-address?   inet:ip-address
|    |       +--ro metric?               uint16
|    |       +--ro metric-type?          ipi-ospfv3-types:ospfv3_ls_metric_type_t
```

```
|    |       +--ro advertising-router?   inet:ipv4-address
|    |       +--ro ls-age?               uint16
|    |       +--ro ls-type?              ipi-ospfv3-types:ospfv3_ls_type_t
|    |       +--ro ls-id?                string
|    |       +--ro ls-sequence-number?   string
|    |       +--ro ls-checksum?          string
|    |       +--ro ls-length?            uint16
|    +--ro route* [prefix]
|    |  +--ro prefix       -> ../state/prefix
|    |  +--ro next-hop* [address]
|    |  |  +--ro address    -> ../state/address
|    |  |  +--ro state
|    |  |     +--ro address?          inet:ip-address
|    |  |     +--ro interface-name?   string
|    |  |     +--ro transit-area?     empty
|    |  |     +--ro area-id?          inet:ipv4-address
|    |  |     +--ro connected?        empty
|    |  |     +--ro invalid?          empty
|    |  |     +--ro code?             string
|    |  +--ro state
|    |  |  +--ro prefix?     cml-data-types:cml_ip_prefix_t
|    |  |  +--ro distance?   uint8
|    |  +--ro route-path
|    |     +--ro state
|    |        +--ro type?                ipi-ospfv3-types:ospfv3_path_type_t
|    |        +--ro code?                string
|    |        +--ro discard-connection?  empty
|    |        +--ro cost?                uint32
|    |        +--ro type-2-cost?         uint32
|    |        +--ro path-flags?          ipi-ospfv3-types:ospfv3_path_flags_t
|    +--rw administrative-distance
|    |  +--rw config
|    |  |  +--rw default-distance?   uint8
|    |  +--ro state
|    |  |  +--ro default-distance?   uint8
|    |  +--rw ospf
```


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```
|    |    +--rw config
|    |    | +--rw intra-area-distance?        uint8
|    |    | +--rw inter-area-distance?        uint8
|    |    | +--rw external-routes-distance?   uint8
|    |    +--ro state
|    |      +--ro intra-area-distance?        uint8
|    |      +--ro inter-area-distance?        uint8
|    |      +--ro external-routes-distance?   uint8
|    +--rw capability
|    | +--rw config
|    | | +--rw traffic-engineering?        empty {feature-list:HAVE_OSPF6_TE}?
|    | | +--rw disable-graceful-restart?   empty {feature-list:HAVE_RESTART}?
|    | +--ro state
|    |    +--ro traffic-engineering?        empty {feature-list:HAVE_OSPF6_TE}?
|    |    +--ro disable-graceful-restart?   empty {feature-list:HAVE_RESTART}?
|    +--rw timers
|    | +--rw spf
|    |    +--rw config!
|    |    | +--rw exponential-min-delay    uint32
|    |    | +--rw exponential-max-delay    uint32
|    |    +--ro state
|    |      +--ro exponential-min-delay    uint32
|    |      +--ro exponential-max-delay    uint32
|    +--rw ospfv3-srv6 {feature-list:HAVE_SRV6}?
|    | +--rw config!
|    | | +--rw ospf6SRv6enable    empty
|    | +--ro state
|    | | +--ro ospf6SRv6enable    empty
|    | +--rw locator-lists
|    |    +--rw locator-list* [ospf6SRv6LocatorName]
|    |      +--rw ospf6SRv6LocatorName    -> ../config/ospf6SRv6LocatorName
|    |      +--rw config
|    |      | +--rw ospf6SRv6LocatorName?   string
|    |      +--ro state
|    |        +--ro ospf6SRv6LocatorName?   string
|    +--rw passive-interfaces
```

```
|    | +--rw config
|    | | +--rw all-interfaces?   empty
|    | +--ro state
|    | | +--ro all-interfaces?   empty
|    | +--rw passive-interface* [name]
|    |    +--rw name      -> ../config/name
|    |    +--rw config
|    |    | +--rw name?           string
|    |    | +--rw passive-mode    ipi-ospfv3-types:ospfv3_passive_mode_t
|    |    +--ro state
|    |       +--ro name?          string
|    |       +--ro passive-mode    ipi-ospfv3-types:ospfv3_passive_mode_t
|    +--rw summary-addresses
|    | +--rw summary-address* [address]
|    |    +--rw address    -> ../config/address
|    |    +--rw config
|    |    | +--rw address?         cml-data-types:cml_ipv6_prefix_t
|    |    | +--rw not-advertise?   empty
|    |    | +--rw translate-tag?   uint32
|    |    | +--rw all-tag?         uint32
|    |    +--ro state
|    |       +--ro address?         cml-data-types:cml_ipv6_prefix_t
|    |       +--ro not-advertise?   empty
|    |       +--ro translate-tag?   uint32
|    |       +--ro all-tag?         uint32
|    +--rw default-information
|    | +--rw config
|    | | +--rw originate?                    empty
|    | | +--rw always-advertise-default-route?   empty
|    | | +--rw metric?                       uint32
|    | | +--rw metric-type?                    ipi-ospfv3-types:ospfv3_metric_type_t
|    | | +--rw route-map?                      string
|    | +--ro state
|    |    +--ro originate?                    empty
|    |    +--ro always-advertise-default-route?   empty
|    |    +--ro metric?                       uint32
```


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```
|    |    +--ro metric-type?                    ipi-ospfv3-types:ospfv3_metric_type_t
|    |    +--ro route-map?                      string
|    +--rw distribute-list {feature-list:HAVE_ACL}?
|    |  +--rw filter-in
|    |  |  +--rw config
|    |  |  |  +--rw access-control-list?   string
|    |  |  +--ro state
|    |  |     +--ro access-control-list?   string
|    |  +--rw filter-out
|    |     +--rw routing-protocols
|    |     |  +--rw routing-protocol* [protocol]
|    |     |     +--rw protocol    -> ../config/protocol
|    |     |     +--rw config
|    |     |     |  +--rw protocol?             ipi-ospfv3-types:ospfv3_route_source_type_t
|    |     |     |  +--rw access-control-list    string
|    |     |     +--ro state
|    |     |        +--ro protocol?             ipi-ospfv3-types:ospfv3_route_source_type_t
|    |     |        +--ro access-control-list    string
|    |     +--rw ospf-processes
|    |        +--rw ospf-process* [ospf-process-id]
|    |           +--rw ospf-process-id    -> ../config/ospf-process-id
|    |           +--rw config
|    |           |  +--rw ospf-process-id?       ipi-ospfv3-types:ospfv3_string_t
|    |           |  +--rw access-control-list    string
|    |           +--ro state
|    |              +--ro ospf-process-id?       ipi-ospfv3-types:ospfv3_string_t
|    |              +--ro access-control-list    string
|    +--rw redistribute
|    |  +--rw routing-protocols
|    |  |  +--rw routing-protocol* [protocol]
|    |  |     +--rw protocol    -> ../config/protocol
|    |  |     +--rw config
|    |  |     |  +--rw protocol?      ipi-ospfv3-types:ospfv3_route_source_type_t
|    |  |     |  +--rw metric?        uint32
|    |  |     |  +--rw metric-type?   ipi-ospfv3-types:ospfv3_metric_type_t
|    |  |     |  +--rw route-map?     string
```

```
|    | |    | +--rw route-tag?     uint32
|    | |    +--ro state
|    | |       +--ro protocol?      ipi-ospfv3-types:ospfv3_route_source_type_t
|    | |       +--ro metric?        uint32
|    | |       +--ro metric-type?   ipi-ospfv3-types:ospfv3_metric_type_t
|    | |       +--ro route-map?     string
|    | |       +--ro route-tag?     uint32
|    | +--rw ospf-processes
|    |    +--rw ospf-process* [ospf-process-id]
|    |       +--rw ospf-process-id    -> ../config/ospf-process-id
|    |       +--rw config
|    |       | +--rw ospf-process-id?   ipi-ospfv3-types:ospfv3_string_t
|    |       | +--rw metric?            uint32
|    |       | +--rw metric-type?       ipi-ospfv3-types:ospfv3_metric_type_t
|    |       | +--rw route-map?         string
|    |       | +--rw route-tag?         uint32
|    |       +--ro state
|    |          +--ro ospf-process-id?   ipi-ospfv3-types:ospfv3_string_t
|    |          +--ro metric?            uint32
|    |          +--ro metric-type?       ipi-ospfv3-types:ospfv3_metric_type_t
|    |          +--ro route-map?         string
|    |          +--ro route-tag?         uint32
|    +--rw areas
|    | +--rw area* [area-id]
|    |    +--rw area-id           -> ../config/area-id
|    |    +--rw config
|    |    | +--rw area-id?        ipi-ospfv3-types:ospfv3_area_t
|    |    | +--rw default-cost?   uint32
|    |    +--ro state
|    |    | +--ro area-id?        ipi-ospfv3-types:ospfv3_area_t
|    |    | +--ro default-cost?   uint32
|    |    +--rw stub
|    |    | +--rw config!
|    |    | | +--rw enable        empty
|    |    | | +--rw no-summary?   empty
|    |    | +--ro state
```


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```
|  |  |  +--ro enable       empty
|  |  |  +--ro no-summary?  empty
|  |  +--rw nssa {feature-list:HAVE_NSSA}?
|  |  | +--rw config!
|  |  | | +--rw enable                        empty
|  |  | | +--rw no-summary?                   empty
|  |  | | +--rw stability-interval?           uint32
|  |  | | +--rw translator-role?              ipi-ospfv3-types:ospfv3_translator_role_t
|  |  | | +--rw no-redistribution?            empty
|  |  | | +--rw default-information-originate?  empty
|  |  | | +--rw metric?                       uint32
|  |  | | +--rw metric-type?                  ipi-ospfv3-types:ospfv3_metric_type_t
|  |  | | +--rw route-map?                    string
|  |  | +--ro state
|  |  |  +--ro enable                        empty
|  |  |  +--ro no-summary?                   empty
|  |  |  +--ro stability-interval?           uint32
|  |  |  +--ro translator-role?              ipi-ospfv3-types:ospfv3_translator_role_t
|  |  |  +--ro no-redistribution?            empty
|  |  |  +--ro default-information-originate?  empty
|  |  |  +--ro metric?                       uint32
|  |  |  +--ro metric-type?                  ipi-ospfv3-types:ospfv3_metric_type_t
|  |  |  +--ro route-map?                    string
|  |  +--rw virtual-links
|  |  | +--rw virtual-link* [remote-router-id]
|  |  |  +--rw remote-router-id    -> ../config/remote-router-id
|  |  |  +--rw config
|  |  |  | +--rw remote-router-id?          inet:ipv4-address
|  |  |  | +--rw bfd-fall-over?             empty {feature-list:HAVE_BFD}?
|  |  |  | +--rw instance-id?               uint8
|  |  |  | +--rw authentication-cryptomap?   -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name {feature-
list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
|  |  |  +--ro state
|  |  |  | +--ro remote-router-id?                inet:ipv4-address
|  |  |  | +--ro bfd-fall-over?                   empty {feature-list:HAVE_BFD}?
|  |  |  | +--ro instance-id?                     uint8
```

```
    |    |    |    | +--ro authentication-cryptomap?            -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name
{feature-list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
    |    |    |    | +--ro name?                                string
    |    |    |    | +--ro status?                              ipi-ospfv3-types:ospfv3_link_status_t
    |    |    |    | +--ro interface-name?                      string
    |    |    |    | +--ro virtual-link-interface-state?        string
    |    |    |    | +--ro local-address?                       inet:ipv4-address
    |    |    |    | +--ro remote-address?                      inet:ipv4-address
    |    |    |    | +--ro virtual-link-instance-id?            uint32
    |    |    |    | +--ro hello-suppression-enable?            empty
    |    |    |    | +--ro do-not-age-lsa-enable?               empty
    |    |    |    | +--ro hello-due-in?                        yang:date-and-time
    |    |    |    | +--ro adjacency-state?                     string
    |    |    |    | +--ro virtual-link-config-error
    |    |    |    | | +--ro router-id?     inet:ipv4-address
    |    |    |    | | +--ro instance-id?   uint8
    |    |    |    | | +--ro error-type?    ipi-ospfv3-types:ospfv3_config_error_type_t
    |    |    |    | | +--ro packet-type?   ipi-ospfv3-types:ospfv3_packet_type_t
    |    |    |    | +--ro virtual-link-state-change
    |    |    |    | | +--ro router-id?           inet:ipv4-address
    |    |    |    | | +--ro instance-id?         uint8
    |    |    |    | | +--ro virtual-link-state?   ipi-ospfv3-types:ospfv3_interface_state_t
    |    |    |    | +--ro virtual-link-neighbor-state-change
    |    |    |    | | +--ro router-id?       inet:ipv4-address
    |    |    |    | | +--ro instance-id?     uint8
    |    |    |    | | +--ro neighbor-state?   ipi-ospfv3-types:ospfv3_interface_state_t
    |    |    |    | +--ro virtual-link-tx-retransmit
    |    |    |    | | +--ro router-id?       inet:ipv4-address
    |    |    |    | | +--ro instance-id?     uint8
    |    |    |    | | +--ro packet-type?     ipi-ospfv3-types:ospfv3_packet_type_t
    |    |    |    | | +--ro lsdb-type?       uint32
    |    |    |    | | +--ro lsdb-lsid?       uint32
    |    |    |    | | +--ro lsdb-router-id?   inet:ipv4-address
    |    |    |    | +--ro virtual-link-rx-bad-packet
    |    |    |    |    +--ro router-id?     inet:ipv4-address
    |    |    |    |    +--ro instance-id?   uint8
    |    |    |    |    +--ro packet-type?   ipi-ospfv3-types:ospfv3_packet_type_t
```


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```
|    |    |    +--rw timers
|    |    |       +--rw config
|    |    |       |  +--rw dead-interval?             uint16
|    |    |       |  +--rw hello-interval?            uint16
|    |    |       |  +--rw transmission-delay?        uint16
|    |    |       |  +--rw retransmission-interval?   uint16
|    |    |       +--ro state
|    |    |          +--ro dead-interval?             uint16
|    |    |          +--ro hello-interval?            uint16
|    |    |          +--ro transmission-delay?        uint16
|    |    |          +--ro retransmission-interval?   uint16
|    |    +--rw address-ranges
|    |       +--rw address-range* [address]
|    |          +--rw address    -> ../config/address
|    |          +--rw config
|    |          |  +--rw address?         cml-data-types:cml_ipv6_prefix_t
|    |          |  +--rw not-advertise?   empty
|    |          +--ro state
|    |             +--ro address?         cml-data-types:cml_ipv6_prefix_t
|    |             +--ro not-advertise?   empty
|    +--ro area-info* [area-id]
|    |  +--ro area-id    -> ../state/area-id
|    |  +--ro state
|    |  |  +--ro statistics
|    |  |  |  +--ro active-interface-count?         yang:counter64
|    |  |  |  +--ro interface-count?                yang:counter64
|    |  |  |  +--ro spf-algorithm-executed-count?   yang:counter64
|    |  |  |  +--ro lsa-count?                      yang:counter64
|    |  |  |  +--ro lsa-checksum?                   string
|    |  |  |  +--ro unknown-lsa-count?              yang:counter64
|    |  |  +--ro area-id?          inet:ipv4-address
|    |  |  +--ro interface-name*   string
|    |  |  +--ro backbone?         empty
|    |  |  +--ro active?           empty
|    |  |  +--ro asbr?             empty
|    |  +--ro vertex* [router-id]
```

```
|    |    +--ro router-id    -> ../state/router-id
|    |    +--ro next-hop* [address]
|    |    |  +--ro address    -> ../state/address
|    |    |  +--ro state
|    |    |     +--ro address?          inet:ip-address
|    |    |     +--ro interface-name?   string
|    |    |     +--ro transit-area?     empty
|    |    |     +--ro area-id?          inet:ipv4-address
|    |    |     +--ro connected?        empty
|    |    |     +--ro invalid?          empty
|    |    |     +--ro code?             string
|    |    +--ro state
|    |       +--ro router-id?   inet:ipv4-address
|    |       +--ro distance?    uint8
|    +--rw address-family
|    |  +--rw ipv4
|    |    +--rw config
|    |    |  +--rw enable-af?   empty
|    |    +--ro state
|    |    |  +--ro enable-af?   empty
|    |    +--rw areas
|    |    |  +--rw area* [area-id]
|    |    |     +--rw area-id           -> ../config/area-id
|    |    |     +--rw config
|    |    |     |  +--rw area-id?   ipi-ospfv3-types:ospfv3_area_t
|    |    |     +--ro state
|    |    |     |  +--ro area-id?   ipi-ospfv3-types:ospfv3_area_t
|    |    |     +--rw address-ranges
|    |    |        +--rw address-range* [address]
|    |    |           +--rw address    -> ../config/address
|    |    |           +--rw config
|    |    |           |  +--rw address?         cml-data-types:cml_ipv4_addr_prefix_t
|    |    |           |  +--rw not-advertise?   empty
|    |    |           +--ro state
|    |    |              +--ro address?         cml-data-types:cml_ipv4_addr_prefix_t
|    |    |              +--ro not-advertise?   empty
```


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```
|    |    +--rw summary-addresses
|    |    |  +--rw summary-address* [address]
|    |    |     +--rw address    -> ../config/address
|    |    |     +--rw config
|    |    |     |  +--rw address?         cml-data-types:cml_ipv4_prefix_t
|    |    |     |  +--rw not-advertise?   empty
|    |    |     |  +--rw tag?             uint32
|    |    |     +--ro state
|    |    |        +--ro address?         cml-data-types:cml_ipv4_prefix_t
|    |    |        +--ro not-advertise?   empty
|    |    |        +--ro tag?             uint32
|    |    +--rw default-information
|    |    |  +--rw config
|    |    |  |  +--rw originate?                       empty
|    |    |  |  +--rw always-advertise-default-route?   empty
|    |    |  |  +--rw metric?                          uint32
|    |    |  |  +--rw metric-type?                     ipi-ospfv3-types:ospfv3_metric_type_t
|    |    |  |  +--rw route-map?                       string
|    |    |  +--ro state
|    |    |     +--ro originate?                       empty
|    |    |     +--ro always-advertise-default-route?   empty
|    |    |     +--ro metric?                          uint32
|    |    |     +--ro metric-type?                     ipi-ospfv3-types:ospfv3_metric_type_t
|    |    |     +--ro route-map?                       string
|    |    +--rw redistribute
|    |       +--rw routing-protocols
|    |       |  +--rw routing-protocol* [protocol-af]
|    |       |     +--rw protocol-af    -> ../config/protocol-af
|    |       |     +--rw config
|    |       |     |  +--rw protocol-af?   ipi-ospfv3-types:ospfv3_af_route_source_type_t
|    |       |     |  +--rw metric?        uint32
|    |       |     |  +--rw metric-type?   ipi-ospfv3-types:ospfv3_metric_type_t
|    |       |     |  +--rw route-map?     string
|    |       |     |  +--rw route-tag?     uint32
|    |       |     +--ro state
|    |       |        +--ro protocol-af?   ipi-ospfv3-types:ospfv3_af_route_source_type_t
```

```
|  |     |     +--ro metric?        uint32
|  |     |     +--ro metric-type?   ipi-ospfv3-types:ospfv3_metric_type_t
|  |     |     +--ro route-map?     string
|  |     |     +--ro route-tag?     uint32
|  |     +--rw ospf-processes
|  |       +--rw ospf-process* [ospfv2-process-id]
|  |         +--rw ospfv2-process-id    -> ../config/ospfv2-process-id
|  |         +--rw config
|  |         | +--rw ospfv2-process-id?   uint16
|  |         | +--rw metric?              uint32
|  |         | +--rw metric-type?         ipi-ospfv3-types:ospfv3_metric_type_t
|  |         | +--rw route-map?           string
|  |         | +--rw route-tag?           uint32
|  |         +--ro state
|  |           +--ro ospfv2-process-id?   uint16
|  |           +--ro metric?              uint32
|  |           +--ro metric-type?         ipi-ospfv3-types:ospfv3_metric_type_t
|  |           +--ro route-map?           string
|  |           +--ro route-tag?           uint32
|  +--ro originate-lsa
|  | +--ro router-id?        -> /ospfv3/processes/process/state/router-id
|  | +--ro lsdb-area-id?     inet:ipv4-address
|  | +--ro lsdb-type?        uint32
|  | +--ro lsdb-id?          uint32
|  | +--ro lsdb-router-id?   inet:ipv4-address
|  +--ro tx-retransmit
|  | +--ro router-id?           inet:ipv4-address
|  | +--ro if-index?            int32
|  | +--ro instance-id?         uint8
|  | +--ro neighbor-router-id?  inet:ipv4-address
|  | +--ro packet-type?         ipi-ospfv3-types:ospfv3_packet_type_t
|  | +--ro lsdb-type?           uint32
|  | +--ro lsdb-lsid?           uint32
|  | +--ro lsdb-router-id?      inet:ipv4-address
|  +--ro neighbor-state-change
|  | +--ro router-id?           inet:ipv4-address
```


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```
|    | +--ro if-index?             int32
|    | +--ro instance-id?          uint8
|    | +--ro neighbor-router-id?   inet:ipv4-address
|    | +--ro neighbor-state?       ipi-ospfv3-types:ospfv3_neighbor_state_change_t
|    +--rw bgp-link-state {feature-list:HAVE_BGP_LS}?
|      +--rw distribute
|        +--rw config
|        | +--rw enabled?          empty
|        | +--rw throttle-timer?   uint8
|        +--ro state
|          +--ro enabled?          empty
|          +--ro throttle-timer?   uint8
+--rw debug
| +--rw config
| | +--rw bfd?                empty {feature-list:HAVE_BFD}?
| | +--rw retransmission?     empty
| | +--rw dist-ls?            empty {feature-list:HAVE_BGP_LS}?
| | +--rw events?             ipi-ospfv3-types:ospfv3_debug_event_t
| | +--rw ifsm?               ipi-ospfv3-types:ospfv3_debug_ifsm_t
| | +--rw lsa?                ipi-ospfv3-types:ospfv3_debug_lsa_t
| | +--rw nfsm?               ipi-ospfv3-types:ospfv3_debug_nfsm_t
| | +--rw nsm?                ipi-ospfv3-types:ospfv3_debug_nsm_t
| | +--rw rib?                ipi-ospfv3-types:ospfv3_debug_rib_t {feature-list:HAVE_RIBD}?
| | +--rw route?              ipi-ospfv3-types:ospfv3_debug_route_t
| | +--rw packet-hello?       ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-dd?          ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-ls-request?  ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-ls-update?   ipi-ospfv3-types:ospfv3_debug_packet_options_t
| | +--rw packet-ls-ack?      ipi-ospfv3-types:ospfv3_debug_packet_options_t
| +--ro state
|    +--ro bfd?                empty {feature-list:HAVE_BFD}?
|    +--ro retransmission?     empty
|    +--ro dist-ls?            empty {feature-list:HAVE_BGP_LS}?
|    +--ro events?             ipi-ospfv3-types:ospfv3_debug_event_t
|    +--ro ifsm?               ipi-ospfv3-types:ospfv3_debug_ifsm_t
|    +--ro lsa?                ipi-ospfv3-types:ospfv3_debug_lsa_t
```

```
|    +--ro nfsm?                  ipi-ospfv3-types:ospfv3_debug_nfsm_t
|    +--ro nsm?                   ipi-ospfv3-types:ospfv3_debug_nsm_t
|    +--ro rib?                   ipi-ospfv3-types:ospfv3_debug_rib_t {feature-list:HAVE_RIBD}?
|    +--ro route?                 ipi-ospfv3-types:ospfv3_debug_route_t
|    +--ro packet-hello?          ipi-ospfv3-types:ospfv3_debug_packet_options_t
|    +--ro packet-dd?             ipi-ospfv3-types:ospfv3_debug_packet_options_t
|    +--ro packet-ls-request?     ipi-ospfv3-types:ospfv3_debug_packet_options_t
|    +--ro packet-ls-update?      ipi-ospfv3-types:ospfv3_debug_packet_options_t
|    +--ro packet-ls-ack?         ipi-ospfv3-types:ospfv3_debug_packet_options_t
|    +--ro terminal-debug-status
|      +--ro bfd?                 cml-data-types:cml_on_off_t {feature-list:HAVE_BFD}?
|      +--ro retransmission?      cml-data-types:cml_on_off_t
|      +--ro dist-ls?             empty {feature-list:HAVE_BGP_LS}?
|      +--ro events?              ipi-ospfv3-types:ospfv3_debug_event_t
|      +--ro ifsm?                ipi-ospfv3-types:ospfv3_debug_ifsm_t
|      +--ro lsa?                 ipi-ospfv3-types:ospfv3_debug_lsa_t
|      +--ro nfsm?                ipi-ospfv3-types:ospfv3_debug_nfsm_t
|      +--ro nsm?                 ipi-ospfv3-types:ospfv3_debug_nsm_t
|      +--ro rib?                 ipi-ospfv3-types:ospfv3_debug_rib_t {feature-list:HAVE_RIBD}?
|      +--ro route?               ipi-ospfv3-types:ospfv3_debug_route_t
|      +--ro packet-hello?        ipi-ospfv3-types:ospfv3_debug_packet_options_t
|      +--ro packet-dd?           ipi-ospfv3-types:ospfv3_debug_packet_options_t
|      +--ro packet-ls-request?   ipi-ospfv3-types:ospfv3_debug_packet_options_t
|      +--ro packet-ls-update?    ipi-ospfv3-types:ospfv3_debug_packet_options_t
|      +--ro packet-ls-ack?       ipi-ospfv3-types:ospfv3_debug_packet_options_t
+--rw interfaces
  +--rw interface* [interface-name]
    +--rw interface-name    -> ../config/interface-name
    +--rw config
    | +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
    | +--rw shutdown?         empty
    +--ro state
    | +--ro interface-name?           -> /ipi-interface:interfaces/interface/name
    | +--ro shutdown?                 empty
    | +--ro interface-config-error
    | | +--ro router-id?              inet:ipv4-address
```


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```
|  |  +--ro interface-index?         uint32
|  |  +--ro interface-instance-id?   uint8
|  |  +--ro error-type?              ipi-ospfv3-types:ospfv3_config_error_type_t
|  |  +--ro packet-type?             ipi-ospfv3-types:ospfv3_packet_type_t
|  +--ro interface-state-change
|  |  +--ro router-id?               inet:ipv4-address
|  |  +--ro interface-index?         uint32
|  |  +--ro interface-instance-id?   uint8
|  |  +--ro interface-state?         ipi-ospfv3-types:ospfv3_interface_state_t
|  +--ro interface-rx-bad-packet
|     +--ro router-id?               inet:ipv4-address
|     +--ro interface-index?         uint32
|     +--ro interface-instance-id?   uint8
|     +--ro packet-src?              inet:ipv6-address
|     +--ro packet-type?             ipi-ospfv3-types:ospfv3_packet_type_t
+--rw instances
   +--rw instance* [instance-id]
      +--rw instance-id                -> ../config/instance-id
      +--rw config
      |  +--rw instance-id?                 uint8
      |  +--rw network-type?                ipi-ospfv3-types:ospfv3_network_type_t
      |  +--rw cost?                        uint16
      |  +--rw priority?                    uint8
      |  +--rw traffic-engineering-metric?    uint16 {feature-list:HAVE_OSPF6_TE}?
      |  +--rw mtu?                         uint16
      |  +--rw mtu-ignore?                  empty
      |  +--rw enable-link-lsa-suppression?   empty
      |  +--rw enable-bfd?                  boolean {feature-list:HAVE_BFD}?
      |  +--rw authentication-cryptomap?      -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name {feature-
list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
      +--ro state
      |  +--ro statistics
      |  |  +--ro neighbor-count?            uint32
      |  |  +--ro adjacent-neighbor-count?   uint32
      |  |  +--ro hello-due-in?              string
      |  |  +--ro hello-in?                  yang:counter64
      |  |  +--ro hello-out?                 yang:counter64
```

```
|  |  +--ro database-description-in?    yang:counter64
|  |  +--ro database-description-out?   yang:counter64
|  |  +--ro ls-request-in?              yang:counter64
|  |  +--ro ls-request-out?             yang:counter64
|  |  +--ro ls-update-in?               yang:counter64
|  |  +--ro ls-update-out?              yang:counter64
|  |  +--ro ls-ack-in?                  yang:counter64
|  |  +--ro ls-ack-out?                 yang:counter64
|  |  +--ro ls-ack-discarded?           yang:counter64
|  +--ro instance-id?                   uint8
|  +--ro network-type?                  ipi-ospfv3-types:ospfv3_network_type_t
|  +--ro cost?                          uint16
|  +--ro priority?                      uint8
|  +--ro traffic-engineering-metric?    uint16 {feature-list:HAVE_OSPF6_TE}?
|  +--ro mtu?                           uint16
|  +--ro mtu-ignore?                    empty
|  +--ro enable-link-lsa-suppression?   empty
|  +--ro enable-bfd?                    boolean {feature-list:HAVE_BFD}?
|  +--ro authentication-cryptomap?      -> /ipi-ipsec:ipsec/crypto-maps/crypto-map/config/name {feature-
list:HAVE_IPSEC,feature-list:HAVE_TUNNEL}?
|  +--ro administrative-state?          ipi-ospfv3-types:ospfv3_interface_admin_state_t
|  +--ro interface-index?               uint32
|  +--ro interface-state?               ipi-ospfv3-types:ospfv3_interface_state_t
|  +--ro address?                       inet:ipv6-address
|  +--ro link-local-address?            inet:ipv6-address
|  +--ro router-id?                     inet:ipv4-address
+--rw routers
|  +--rw router* [ospfv3-id area-id]
|     +--rw ospfv3-id    -> ../config/ospfv3-id
|     +--rw area-id      -> ../config/area-id
|     +--rw config
|     |  +--rw ospfv3-id?   ipi-ospfv3-types:ospfv3_string_t
|     |  +--rw area-id?     ipi-ospfv3-types:ospfv3_area_t
|     +--ro state
|        +--ro ospfv3-id?   ipi-ospfv3-types:ospfv3_string_t
|        +--ro area-id?     ipi-ospfv3-types:ospfv3_area_t
+--rw timers
```


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```
| +--rw config
| | +--rw dead-interval?             uint16
| | +--rw hello-interval?            uint16
| | +--rw transmission-delay?        uint16
| | +--rw retransmission-interval?   uint16
| +--ro state
|    +--ro dead-interval?             uint16
|    +--ro hello-interval?            uint16
|    +--ro transmission-delay?        uint16
|    +--ro retransmission-interval?   uint16
+--rw neighbors-static
| +--rw neighbor-static* [address]
|    +--rw address    -> ../config/address
|    +--rw config
|    | +--rw address?         inet:ipv6-address
|    | +--rw cost?            uint16
|    | +--rw priority?        uint8
|    | +--rw poll-interval?   uint32
|    +--ro state
|       +--ro address?           inet:ipv6-address
|       +--ro cost?              uint16
|       +--ro priority?          uint8
|       +--ro poll-interval?     uint32
|       +--ro interface-state?   string
+--ro designated-router
| +--ro state
|    +--ro router-id?   inet:ipv4-address
|    +--ro address?     inet:ipv6-address
+--ro backup-designated-router
| +--ro state
|    +--ro router-id?   inet:ipv4-address
|    +--ro address?     inet:ipv6-address
+--ro neighbor* [router-id]
  +--ro router-id    -> ../state/router-id
  +--ro state
  | +--ro statistics
```

```
| | +--ro dead-timer-due-in?         string
| | +--ro timer-dump?                string
| | +--ro state-changes?             yang:counter64
| | +--ro database-summary-count?    yang:counter64
| | +--ro ls-request-count?          yang:counter64
| | +--ro ls-retransmissiom-count?   yang:counter64
| +--ro router-id?                   inet:ipv4-address
| +--ro address?                     inet:ipv6-address
| +--ro area-id?                     inet:ipv4-address
| +--ro state?                       string
| +--ro state-message?                   cml-data-types:cml_line_t
| +--ro bfd-enable?                  empty {feature-list:HAVE_BFD}?
| +--ro priority?                    uint8
| +--ro neighbor-options?                ipi-ospfv3-types:ospfv3_ls_options_t
| +--ro designated-router-router-id?         inet:ipv4-address
| +--ro backup-designated-router-router-id?   inet:ipv4-address
+--ro route* [prefix]
   +--ro prefix        -> ../state/prefix
   +--ro next-hop* [address]
   | +--ro address    -> ../state/address
   | +--ro state
   |    +--ro address?          inet:ip-address
   |    +--ro interface-name?   string
   |    +--ro transit-area?     empty
   |    +--ro area-id?          inet:ipv4-address
   |    +--ro connected?        empty
   |    +--ro invalid?          empty
   |    +--ro code?             string
   +--ro state
   | +--ro prefix?     cml-data-types:cml_ip_prefix_t
   | +--ro distance?   uint8
   +--ro route-path
      +--ro state
         +--ro type?               ipi-ospfv3-types:ospfv3_path_type_t
         +--ro code?               string
         +--ro discard-connection?   empty
```


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```
                +--ro cost?               uint32
                +--ro type-2-cost?        uint32
                +--ro path-flags?         ipi-ospfv3-types:ospfv3_path_flags_t

rpcs:
  +---x ospfv3-terminal-debug-ospf-all-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  +---x ospfv3-terminal-debug-ospf-all-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  +---x ospfv3-terminal-debug-bfd-on {feature-list:HAVE_BFD}?
  +---x ospfv3-terminal-debug-bfd-off {feature-list:HAVE_BFD}?
  +---x ospfv3-terminal-debug-retransmission-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  +---x ospfv3-terminal-debug-retransmission-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  +---x ospfv3-terminal-debug-dist-ls-on {feature-list:HAVE_BGP_LS}?
  +---x ospfv3-terminal-debug-dist-ls-off {feature-list:HAVE_BGP_LS}?
  +---x ospfv3-terminal-debug-events-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w events    ipi-ospfv3-types:ospfv3_debug_event_t
  +---x ospfv3-terminal-debug-events-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w events    ipi-ospfv3-types:ospfv3_debug_event_t
  +---x ospfv3-terminal-debug-ifsm-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w ifsm    ipi-ospfv3-types:ospfv3_debug_ifsm_t
  +---x ospfv3-terminal-debug-ifsm-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w ifsm    ipi-ospfv3-types:ospfv3_debug_ifsm_t
  +---x ospfv3-terminal-debug-lsa-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w lsa    ipi-ospfv3-types:ospfv3_debug_lsa_t
  +---x ospfv3-terminal-debug-lsa-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w lsa    ipi-ospfv3-types:ospfv3_debug_lsa_t
  +---x ospfv3-terminal-debug-nfsm-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w nfsm    ipi-ospfv3-types:ospfv3_debug_nfsm_t
  +---x ospfv3-terminal-debug-nfsm-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  |  +---w input
```

```
|    +---w nfsm    ipi-ospfv3-types:ospfv3_debug_nfsm_t
+---x ospfv3-terminal-debug-nsm-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w nsm    ipi-ospfv3-types:ospfv3_debug_nsm_t
+---x ospfv3-terminal-debug-nsm-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w nsm    ipi-ospfv3-types:ospfv3_debug_nsm_t
+---x ospfv3-terminal-debug-packet-all-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w all    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-all-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w all    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-hello-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w hello    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-hello-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w hello    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-dd-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w dd    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-dd-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w dd    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-request-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w ls-request    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-request-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w ls-request    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-update-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
|    +---w ls-update    ipi-ospfv3-types:ospfv3_debug_packet_options_t
+---x ospfv3-terminal-debug-packet-ls-update-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
| +---w input
```


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```
  |    +---w ls-update    ipi-ospfv3-types:ospfv3_debug_packet_options_t
  +---x ospfv3-terminal-debug-packet-ls-ack-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w ls-ack    ipi-ospfv3-types:ospfv3_debug_packet_options_t
  +---x ospfv3-terminal-debug-packet-ls-ack-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w ls-ack    ipi-ospfv3-types:ospfv3_debug_packet_options_t
  +---x ospfv3-terminal-debug-rib-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w rib    ipi-ospfv3-types:ospfv3_debug_rib_t
  +---x ospfv3-terminal-debug-rib-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w rib    ipi-ospfv3-types:ospfv3_debug_rib_t
  +---x ospfv3-terminal-debug-route-on {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w route    ipi-ospfv3-types:ospfv3_debug_route_t
  +---x ospfv3-terminal-debug-route-off {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w route    ipi-ospfv3-types:ospfv3_debug_route_t
  +---x ospfv3-clear-process {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w process-id    string
  +---x ospfv3-clear-process-all {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  +---x ospfv3-graceful-restart {feature-list:HAVE_OSPF6D,feature-list:HAVE_IPV6}?
  | +---w input
  |    +---w grace-period    uint16
  +---x ospfv3-snmp-restart {feature-list:HAVE_SNMP}?

notifications:
  +---n ospfv3-originate-lsa
  | +--ro severity?         cml-data-types:cml_notif_severity_t
  | +--ro eventClass?       cml-data-types:cml_notif_class_t
  | +--ro ospfv3-id?        ipi-ospfv3-types:ospfv3_string_t
  | +--ro router-id?        inet:ipv4-address
  | +--ro lsdb-area-id?     inet:ipv4-address
  | +--ro lsdb-type?        uint32
```

```
|  +--ro lsdb-id?          uint32
|  +--ro lsdb-router-id?   inet:ipv4-address
+---n ospfv3-tx-retransmit
|  +--ro severity?            cml-data-types:cml_notif_severity_t
|  +--ro eventClass?          cml-data-types:cml_notif_class_t
|  +--ro ospfv3-id?           ipi-ospfv3-types:ospfv3_string_t
|  +--ro router-id?           inet:ipv4-address
|  +--ro if-index?            int32
|  +--ro instance-id?         uint8
|  +--ro neighbor-router-id?   inet:ipv4-address
|  +--ro packet-type?         ipi-ospfv3-types:ospfv3_packet_type_t
|  +--ro lsdb-type?           uint32
|  +--ro lsdb-lsid?           uint32
|  +--ro lsdb-router-id?      inet:ipv4-address
+---n ospfv3-neighbor-state-change
|  +--ro severity?            cml-data-types:cml_notif_severity_t
|  +--ro eventClass?          cml-data-types:cml_notif_class_t
|  +--ro ospfv3-id?           ipi-ospfv3-types:ospfv3_string_t
|  +--ro router-id?           inet:ipv4-address
|  +--ro if-index?            int32
|  +--ro instance-id?         uint8
|  +--ro neighbor-router-id?   inet:ipv4-address
|  +--ro neighbor-state?      ipi-ospfv3-types:ospfv3_neighbor_state_change_t
+---n ospfv3-virtual-link-config-error
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro remote-router-id?   inet:ipv4-address
|  +--ro area-id?           ipi-ospfv3-types:ospfv3_area_t
|  +--ro ospfv3-id?         ipi-ospfv3-types:ospfv3_string_t
|  +--ro router-id?         inet:ipv4-address
|  +--ro instance-id?       uint8
|  +--ro error-type?        ipi-ospfv3-types:ospfv3_config_error_type_t
|  +--ro packet-type?       ipi-ospfv3-types:ospfv3_packet_type_t
+---n ospfv3-virtual-link-state-change
|  +--ro severity?            cml-data-types:cml_notif_severity_t
|  +--ro eventClass?          cml-data-types:cml_notif_class_t
```


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```
|  +--ro remote-router-id?     inet:ipv4-address
|  +--ro area-id?              ipi-ospfv3-types:ospfv3_area_t
|  +--ro ospfv3-id?            ipi-ospfv3-types:ospfv3_string_t
|  +--ro router-id?            inet:ipv4-address
|  +--ro instance-id?          uint8
|  +--ro virtual-link-state?   ipi-ospfv3-types:ospfv3_interface_state_t
+---n ospfv3-virtual-link-neighbor-state-change
|  +--ro severity?             cml-data-types:cml_notif_severity_t
|  +--ro eventClass?           cml-data-types:cml_notif_class_t
|  +--ro remote-router-id?   inet:ipv4-address
|  +--ro area-id?              ipi-ospfv3-types:ospfv3_area_t
|  +--ro ospfv3-id?            ipi-ospfv3-types:ospfv3_string_t
|  +--ro router-id?            inet:ipv4-address
|  +--ro instance-id?          uint8
|  +--ro neighbor-state?     ipi-ospfv3-types:ospfv3_interface_state_t
+---n ospfv3-virtual-link-rx-bad-packet
|  +--ro severity?             cml-data-types:cml_notif_severity_t
|  +--ro eventClass?           cml-data-types:cml_notif_class_t
|  +--ro remote-router-id?   inet:ipv4-address
|  +--ro area-id?              ipi-ospfv3-types:ospfv3_area_t
|  +--ro ospfv3-id?            ipi-ospfv3-types:ospfv3_string_t
|  +--ro router-id?            inet:ipv4-address
|  +--ro instance-id?          uint8
|  +--ro packet-type?          ipi-ospfv3-types:ospfv3_packet_type_t
+---n ospfv3-virtual-link-tx-retransmit
|  +--ro severity?             cml-data-types:cml_notif_severity_t
|  +--ro eventClass?           cml-data-types:cml_notif_class_t
|  +--ro remote-router-id?   inet:ipv4-address
|  +--ro area-id?              ipi-ospfv3-types:ospfv3_area_t
|  +--ro ospfv3-id?            ipi-ospfv3-types:ospfv3_string_t
|  +--ro router-id?            inet:ipv4-address
|  +--ro instance-id?          uint8
|  +--ro packet-type?          ipi-ospfv3-types:ospfv3_packet_type_t
|  +--ro lsdb-type?            uint32
|  +--ro lsdb-lsid?            uint32
|  +--ro lsdb-router-id?     inet:ipv4-address
```

```
  +---n ospfv3-interface-config-error
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro interface-name?        string
  |  +--ro router-id?             inet:ipv4-address
  |  +--ro interface-index?       uint32
  |  +--ro interface-instance-id? uint8
  |  +--ro error-type?            ipi-ospfv3-types:ospfv3_config_error_type_t
  |  +--ro packet-type?           ipi-ospfv3-types:ospfv3_packet_type_t
  +---n ospfv3-interface-state-change
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro interface-name?        string
  |  +--ro router-id?             inet:ipv4-address
  |  +--ro interface-index?       uint32
  |  +--ro interface-instance-id? uint8
  |  +--ro interface-state?       ipi-ospfv3-types:ospfv3_interface_state_t
  +---n ospfv3-interface-rx-bad-packet
     +--ro severity?              cml-data-types:cml_notif_severity_t
     +--ro eventClass?            cml-data-types:cml_notif_class_t
     +--ro interface-name?        string
     +--ro router-id?             inet:ipv4-address
     +--ro interface-index?       uint32
     +--ro interface-instance-id? uint8
     +--ro packet-src?            inet:ipv6-address
     +--ro packet-type?           ipi-ospfv3-types:ospfv3_packet_type_t
```

ipi-pbr

```
 +--rw pbr
    +--rw config
    |  +--rw enabled?   empty
    +--ro state
    |  +--ro enabled?   empty
    +--rw interfaces
       +--rw interface* [name]
```


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```
      +--rw name      -> ../config/name
      +--rw config
      |  +--rw name?               -> /ipi-interface:interfaces/interface/name
      |  +--rw route-map-name?     -> /ipi-routemap:routemaps/routemap/routemap-name
      |  +--rw route-map-v6-name?  -> /ipi-routemap:routemaps/routemap/routemap-name {feature-list:HAVE_IPV6}?
      +--ro state
         +--ro name?               -> /ipi-interface:interfaces/interface/name
         +--ro route-map-name?     -> /ipi-routemap:routemaps/routemap/routemap-name
         +--ro route-map-v6-name?  -> /ipi-routemap:routemaps/routemap/routemap-name {feature-list:HAVE_IPV6}?

rpcs:
  +---x clear-route-map-pbr-statistics {feature-list:HAVE_PBR}?
     +---w input
        +---w route-map-name    string
```

ipi-pcep

```
+--rw pcep
   +--rw entities
   |  +--rw entity* [entity-id]
   |     +--rw entity-id       -> ../config/entity-id
   |     +--rw config
   |     |  +--rw entity-id?                uint32
   |     |  +--rw keep-alive-interval?      uint8
   |     |  +--rw dead-interval?            uint8
   |     |  +--rw request-timeout?          uint16
   |     |  +--rw tolerance-keepalive?      uint32
   |     |  +--rw tolerance-dead-interval?  uint32
   |     |  +--rw cool-off-timeout?         int32
   |     |  +--rw source-address?           inet:ip-address
   |     |  +--rw recovery-policy?          ipi-pcep-types:pcep_dlg_recovery_type_t
   |     +--ro state
```

```
|    | +--ro entity-id?                uint32
|    | +--ro keep-alive-interval?      uint8
|    | +--ro dead-interval?            uint8
|    | +--ro request-timeout?          uint16
|    | +--ro tolerance-keepalive?      uint32
|    | +--ro tolerance-dead-interval?  uint32
|    | +--ro cool-off-timeout?         int32
|    | +--ro source-address?           inet:ip-address
|    | +--ro recovery-policy?          ipi-pcep-types:pcep_dlg_recovery_type_t
|    | +--ro role?                     ipi-pcep-types:pcep_role_t
|    | +--ro connect-timer?            uint32
|    | +--ro connect-max-retry?        uint32
|    | +--ro init-backoff-timer?       uint32
|    | +--ro max-backoff-timer?        uint32
|    | +--ro open-wait-timer?          uint32
|    | +--ro keep-wait-timer?          uint32
|    +--rw capability
|    | +--rw config
|    | | +--rw segment-routing-v6?   empty {feature-list:HAVE_PCEP_SRV6}?
|    | | +--rw pce-instantiate?      empty
|    | | +--rw segment-routing?      empty {feature-list:HAVE_PCEP_SR}?
|    | +--ro state
|    |    +--ro segment-routing-v6?   empty {feature-list:HAVE_PCEP_SRV6}?
|    |    +--ro pce-instantiate?      empty
|    |    +--ro segment-routing?      empty {feature-list:HAVE_PCEP_SR}?
|    +--rw stateful
|    | +--rw config
|    | | +--rw redelegation-timeout?   uint32
|    | | +--rw lsp-state-timeout?      ipi-pcep-types:pcep_lsp_state_timeout_t
|    | +--ro state
|    |    +--ro redelegation-timeout?   uint32
|    |    +--ro lsp-state-timeout?      ipi-pcep-types:pcep_lsp_state_timeout_t
|    +--rw flap-limit
|    | +--rw config!
|    | | +--rw flap-count       int32
|    | | +--rw flap-interval    int32
```


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```
|    | +--ro state
|    |    +--ro flap-count       int32
|    |    +--ro flap-interval    int32
|    +--rw update-limit
|    | +--rw config!
|    | | +--rw count       int32
|    | | +--rw interval    int32
|    | +--ro state
|    |    +--ro count       int32
|    |    +--ro interval    int32
|    +--rw lsp-database
|    | +--ro ingress-tunnel* [plsp-id]
|    |    +--ro plsp-id          -> ../state/plsp-id
|    |    +--ro lsp* [lsp-id]
|    |    | +--ro lsp-id                -> ../state/lsp-id
|    |    | +--ro state
|    |    | | +--ro lsp-id?             uint32
|    |    | | +--ro operational-state?   ipi-pcep-types:pcep_lsp_oper_status_t
|    |    | | +--ro last-lsp-error?      ipi-pcep-types:pcep_lsp_error_t
|    |    | +--ro binding-label-status
|    |    |    +--ro state
|    |    |       +--ro label-value?       uint32
|    |    |       +--ro allocation-mode?   ipi-pcep-types:pcep_binding_alloc_mode_t
|    |    +--ro state
|    |    | +--ro plsp-id?              uint32
|    |    | +--ro tunnel-id?            uint32
|    |    | +--ro candidate-path-id?     uint32 {feature-list:HAVE_PCEP_SR}?
|    |    | +--ro source?               inet:ipv4-address
|    |    | +--ro destination?          inet:ipv4-address
|    |    | +--ro extended-tunnel-id?    inet:ipv4-address
|    |    | +--ro admin-state?          boolean
|    |    | +--ro symbolic-name?         string
|    |    | +--ro tunnel-name?          string
|    |    | +--ro setup-type?           ipi-pcep-types:pcep_lsp_setup_type_t
|    |    | +--ro local-policy-active?   empty
|    |    | +--ro request-id?           uint32
```

```
|    |    | +--ro request-state?         ipi-pcep-types:pcep_tunnel_request_state_t
|    |    | +--ro request-flags?         ipi-pcep-types:pcep_tunnel_request_flags_t
|    |    | +--ro error-flags?           ipi-pcep-types:pcep_tunnel_err_flags_t
|    |    | +--ro recent-lsp-id?         uint32 {feature-list:HAVE_PCEP_RSVP}?
|    |    | +--ro pending-updates?       empty
|    |    | +--ro last-event?            ipi-pcep-types:pcep_tunnel_recent_event_t
|    |    +--ro pce-delegation
|    |    | +--ro state
|    |    |    +--ro enabled?                    empty
|    |    |    +--ro address?                    inet:ipv4-address
|    |    |    +--ro stateful-request-parameter-id?   uint32
|    |    +--ro initiation
|    |       +--ro state
|    |          +--ro enabled?   empty
|    |          +--ro address?   inet:ipv4-address
|    +--rw peers
|       +--rw peer* [address]
|          +--rw address       -> ../config/address
|          +--rw config
|          | +--rw address?               ipi-pcep-types:pcep_ip_addr_t
|          | +--rw delegation-preference?   uint32
|          | +--rw authentication-key?      string {feature-list:HAVE_TCP_MD5SIG}?
|          +--ro state
|          | +--ro address?               ipi-pcep-types:pcep_ip_addr_t
|          | +--ro delegation-preference?   uint32
|          | +--ro authentication-key?      string {feature-list:HAVE_TCP_MD5SIG}?
|          | +--ro role?                  ipi-pcep-types:pcep_role_t
|          | +--ro session-exists?          empty
|          | +--ro session-up-time?         yang:timestamp
|          | +--ro session-fail-time?       yang:timestamp
|          | +--ro counters
|          |    +--ro stateful
|          |    | +--ro tx-path-reports?   yang:counter32
|          |    | +--ro tx-reports?        yang:counter32
|          |    | +--ro rx-path-updates?   yang:counter32
|          |    | +--ro rx-updates?        yang:counter32
```


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```
|       |    | +--ro rx-pc-initiate?    yang:counter32
|       |    | +--ro rx-lsp-initiate?   yang:counter32
|       |    +--ro session-setup-fail?            yang:counter32
|       |    +--ro tx-open-message?               yang:counter32
|       |    +--ro tx-keep-alive?                 yang:counter32
|       |    +--ro tx-pc-notifications?           yang:counter32
|       |    +--ro tx-path-request-errors?        yang:counter32
|       |    +--ro tx-path-request?               yang:counter32
|       |    +--ro tx-request?                    yang:counter32
|       |    +--ro tx-request-for-pending-reply?    yang:counter32
|       |    +--ro tx-request-for-error-received?   yang:counter32
|       |    +--ro tx-request-for-nopath-receive?   yang:counter32
|       |    +--ro tx-request-for-cancel-receive?   yang:counter32
|       |    +--ro tx-request-for-ero-received?     yang:counter32
|       |    +--ro tx-request-timed-out?          yang:counter32
|       |    +--ro tx-request-sent-cancel-sent?     yang:counter32
|       |    +--ro tx-request-sent-closed?        yang:counter32
|       |    +--ro rx-open-message?               yang:counter32
|       |    +--ro rx-keep-alive?                 yang:counter32
|       |    +--ro rx-pc-notifications?           yang:counter32
|       |    +--ro rx-path-request-errors?        yang:counter32
|       |    +--ro rx-path-reply?                 yang:counter32
|       |    +--ro rx-unknown?                    yang:counter32
|       |    +--ro rx-corrupt?                    yang:counter32
|       +--ro capability
|       | +--ro state
|       |    +--ro pce-instantiate?   empty
|       |    +--ro segment-routing?   empty {feature-list:HAVE_PCEP_SR}?
|       |    +--ro lsp-update?        empty
|       +--ro session
|         +--ro state
|            +--ro initiator?                ipi-pcep-types:pcep_initiator_t
|            +--ro state?                    ipi-pcep-types:pcep_session_state_t
|            +--ro state-changes?            uint32
|            +--ro state-last-change?        yang:timestamp
|            +--ro creation-time?            yang:timestamp
```

```
   |              +--ro connect-retry?               yang:counter32
   |              +--ro open-retry?                  uint8
   |              +--ro local-id?                    uint8
   |              +--ro remote-id?                   uint8
   |              +--ro peer-overloaded?             boolean
   |              +--ro peer-overload-time?          uint32
   |              +--ro keepalive-timer?             uint8
   |              +--ro peer-keepalive-timer?        uint8
   |              +--ro dead-timer?                  uint8
   |              +--ro peer-dead-timer?             uint8
   |              +--ro keepalive-hold-timer-remain?   uint8
   |              +--ro max-unknown-message?         uint32
   +--rw init-lsp-limit
   |  +--rw config!
   |  |  +--rw lsp-limit    uint32
   |  +--ro state
   |     +--ro lsp-limit    uint32
   +--rw debug
   |  +--rw config
   |  |  +--rw options?   ipi-pcep-types:pcep_debug_t
   |  +--ro state
   |     +--ro options?                ipi-pcep-types:pcep_debug_t
   |     +--ro terminal-debug-status?   ipi-pcep-types:pcep_debug_t
   +--rw srv6-spirent-comp
      +--rw config
      |  +--rw srv6-spirent-comp?   empty
      +--ro state
         +--ro srv6-spirent-comp?   empty

 rpcs:
   +---x clear-pcep-peer-all {feature-list:HAVE_PCEP}?
   +---x clear-pcep-peer {feature-list:HAVE_PCEP}?
   |  +---w input
   |     +---w address    inet:ip-address
   +---x clear-pcep-statistics {feature-list:HAVE_PCEP}?
   +---x debug-pcep-all {feature-list:HAVE_PCEP}?
```


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```
  +---x pcep-terminal-debug-on {feature-list:HAVE_PCEP}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-pcep-types:pcep_debug_t
  +---x pcep-terminal-debug-off {feature-list:HAVE_PCEP}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-pcep-types:pcep_debug_t
  +---x clear-pcep-requests {feature-list:HAVE_PCEP}?
     +---w input
        +---w tunnel-id    string

notifications:
  +---n pcep-session-up
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro address?            ipi-pcep-types:pcep_ip_addr_t
  |  +--ro entity-id?          uint32
  |  +--ro initiator?          ipi-pcep-types:pcep_initiator_t
  |  +--ro state-last-change?  yang:timestamp
  |  +--ro state?              ipi-pcep-types:pcep_session_state_t
  +---n pcep-session-down
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro address?            ipi-pcep-types:pcep_ip_addr_t
  |  +--ro entity-id?          uint32
  |  +--ro initiator?          ipi-pcep-types:pcep_initiator_t
  |  +--ro state-last-change?  yang:timestamp
  |  +--ro state?              ipi-pcep-types:pcep_session_state_t
  +---n pcep-session-peer-overload
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro address?            ipi-pcep-types:pcep_ip_addr_t
  |  +--ro entity-id?          uint32
  |  +--ro initiator?          ipi-pcep-types:pcep_initiator_t
  |  +--ro peer-overloaded?    boolean
  |  +--ro peer-overload-time? uint32
  +---n pcep-session-peer-overload-clear
```

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```
      +--ro severity?          cml-data-types:cml_notif_severity_t
      +--ro eventClass?        cml-data-types:cml_notif_class_t
      +--ro address?           ipi-pcep-types:pcep_ip_addr_t
      +--ro entity-id?         uint32
      +--ro initiator?         ipi-pcep-types:pcep_initiator_t
      +--ro peer-overloaded?   boolean
```

ipi-pim

```
  +--rw pim
     +--rw debug {feature-list:HAVE_BFD}?
     |  +--rw config
     |  |  +--rw bfd?   empty
     |  +--ro state
     |     +--ro bfd?                    empty
     |     +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
     +--rw ipv4
     |  +--rw instances
     |  |  +--rw instance* [vrf-name]
     |  |     +--rw vrf-name               -> ../config/vrf-name
     |  |     +--rw config
     |  |     |  +--rw vrf-name?                -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
```


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```
   | |    | +--rw router-id?                 inet:ipv4-address {feature-list:HAVE_PIM_SM}?
   | |    | +--rw join-prune-interval?       uint16 {feature-list:HAVE_PIM_SM}?
   | |    | +--rw ecmp-bundle*               string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
   | |    | +--rw enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
   | |    +--ro state
   | |    | +--ro vrf-name?                  -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
   | |    | +--ro router-id?                 inet:ipv4-address {feature-list:HAVE_PIM_SM}?
   | |    | +--ro join-prune-interval?       uint16 {feature-list:HAVE_PIM_SM}?
   | |    | +--ro ecmp-bundle*               string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
   | |    | +--ro enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
   | |    | +--ro counters
   | |    | | +--ro joins-sent?       yang:counter64
   | |    | | +--ro joins-received?   yang:counter64
   | |    | +--ro rp-sets
   | |    |   +--ro rp-set* [group-address]
   | |    |     +--ro group-address    -> ../state/group-address
   | |    |     +--ro state
   | |    |     | +--ro group-address?     cml-data-types:cml_ipv4_addr_prefix_t
   | |    |     | +--ro fragment-tag?      uint16
   | |    |     | +--ro number-of-rp?      uint32
   | |    |     | +--ro expiration-time?   string
   | |    |     +--ro rps
   | |    |       +--ro rp* [rp-address]
   | |    |         +--ro rp-address    -> ../state/rp-address
   | |    |         +--ro state
   | |    |           +--ro rp-address?       inet:ipv4-address
   | |    |           +--ro from?             inet:ipv4-address
   | |    |           +--ro mode?             ipi-pim-ipv4-types:pim_ipv4_rp_mode_t
   | |    |           +--ro type?             ipi-pim-ipv4-types:pim_ipv4_rp_type_t
   | |    |           +--ro priority?         uint8
   | |    |           +--ro hold-time?        uint16
   | |    |           +--ro up-time?          string
   | |    |           +--ro expiration-time?   string
   | |    +--ro next-hop-destinations
   | |    | +--ro next-hop-destination* [destination-address]
   | |    |   +--ro destination-address    -> ../state/destination-address
```

```
| |   |   +--ro state
| |   |   | +--ro destination-address?            inet:ipv4-address
| |   |   | +--ro destination-type?               ipi-pim-ipv4-types:pim_ipv4_next_hop_flags_t
| |   |   | +--ro next-hop-count?                 uint32
| |   |   | +--ro preference?                     uint16
| |   |   | +--ro metric?                         uint32
| |   |   | +--ro reference-count?                uint32
| |   |   | +--ro route-type?                     ipi-pim-ipv4-types:pim_ipv4_route_type_t
| |   |   | +--ro route-sub-type?                 ipi-pim-ipv4-types:pim_ipv4_route_sub_type_t
| |   |   | +--ro subaddress-familiy-identifier?  uint32
| |   |   | +--ro interface-index?                uint16
| |   |   +--ro next-hops
| |   |     +--ro next-hop* [ipv4-address]
| |   |       +--ro ipv4-address    -> ../state/ipv4-address
| |   |       +--ro state
| |   |         +--ro ipv4-address?               inet:ipv4-address
| |   |         +--ro type?                       ipi-pim-ipv4-types:pim_ipv4_next_hop_type_t
| |   |         +--ro recursive-active-next-hop?  uint8
| |   |         +--ro recursive-type?             ipi-pim-ipv4-types:pim_ipv4_next_hop_type_t
| |   |         +--ro recursive-interface-id?     uint8
| |   |         +--ro interface-index?            uint16
| |   |         +--ro bfd-interface-index?        uint16
| |   |         +--ro interface-name?             string
| |   +--rw register-packet {feature-list:HAVE_PIM_SM}?
| |   | +--rw config
| |   | | +--rw register-reachability-check?  cml-data-types:cml_enable_disable_t
| |   | | +--rw rate-limit?                   uint16
| |   | | +--rw suppress-interval?            uint16
| |   | | +--rw keep-alive-interval?          uint16
| |   | | +--rw source-address?               ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| |   | | +--rw accept-register?              string
| |   | +--ro state
| |   |   +--ro register-reachability-check?  cml-data-types:cml_enable_disable_t
| |   |   +--ro rate-limit?                   uint16
| |   |   +--ro suppress-interval?            uint16
| |   |   +--ro keep-alive-interval?          uint16
```


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```
| |    |    +--ro source-address?              ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| |    |    +--ro accept-register?             string
| |    |    +--ro counters
| |    |       +--ro register-packet-received?   yang:counter64
| |    |       +--ro register-null-received?     yang:counter64
| |    |       +--ro register-stop-sent?         yang:counter64
| |    |       +--ro register-stop-received?     yang:counter64
| |    +--rw interop
| |    |  +--rw config
| |    |  |  +--rw ignore-rp-set-priority?     empty {feature-list:HAVE_PIM_SM}?
| |    |  |  +--rw cisco-bsr-interop-enable?   empty {feature-list:HAVE_PIM_SM}?
| |    |  +--ro state
| |    |  |  +--ro ignore-rp-set-priority?     empty {feature-list:HAVE_PIM_SM}?
| |    |  |  +--ro cisco-bsr-interop-enable?   empty {feature-list:HAVE_PIM_SM}?
| |    |  +--rw register-packet
| |    |    +--rw config!
| |    |    |  +--rw cisco-register-checksum-enable    empty {feature-list:HAVE_PIM_SM}?
| |    |    |  +--rw access-control-list?              string {feature-list:HAVE_PIM_SM}?
| |    |    +--ro state
| |    |       +--ro cisco-register-checksum-enable    empty {feature-list:HAVE_PIM_SM}?
| |    |       +--ro access-control-list?              string {feature-list:HAVE_PIM_SM}?
| |    +--rw spt-switch
| |    |  +--rw config!
| |    |  |  +--rw enable                empty {feature-list:HAVE_PIM_SM}?
| |    |  |  +--rw access-control-list?  string {feature-list:HAVE_PIM_SM}?
| |    |  +--ro state
| |    |    +--ro enable                empty {feature-list:HAVE_PIM_SM}?
| |    |    +--ro access-control-list?  string {feature-list:HAVE_PIM_SM}?
| |    +--rw ssm {feature-list:HAVE_PIM_SSM}?
| |    |  +--rw config
| |    |  |  +--rw range-policy?   ipi-pim-ipv4-types:pim_ipv4_ssm_range_policy_type_t
| |    |  +--ro state
| |    |    +--ro range-policy?   ipi-pim-ipv4-types:pim_ipv4_ssm_range_policy_type_t
| |    +--rw anycast-rps {feature-list:HAVE_PIM_SM}?
| |    |  +--rw anycast-rp* [anycast-rp-address member-rp-address]
| |    |    +--rw anycast-rp-address    -> ../config/anycast-rp-address
```

```
| |   |   +--rw member-rp-address     -> ../config/member-rp-address
| |   |   +--rw config
| |   |   | +--rw anycast-rp-address?   inet:ipv4-address
| |   |   | +--rw member-rp-address?    inet:ipv4-address
| |   |   +--ro state
| |   |     +--ro anycast-rp-address?   inet:ipv4-address
| |   |     +--ro member-rp-address?    inet:ipv4-address
| |   +--rw rendezvous-point
| |   | +--rw static-rps
| |   | | +--rw static-rps-default
| |   | |   +--rw static-rp-default* [rp-address]
| |   | |     +--rw rp-address    -> ../config/rp-address
| |   | |     +--rw config
| |   | |     | +--rw rp-address?                    inet:ipv4-address
| |   | |     | +--rw access-control-list?           string
| |   | |     | +--rw override-dynamically-learned-rp?   empty
| |   | |     +--ro state
| |   | |       +--ro rp-address?                    inet:ipv4-address
| |   | |       +--ro access-control-list?           string
| |   | |       +--ro override-dynamically-learned-rp?   empty
| |   | +--rw bootstrap-router
| |   | | +--rw bsr-candidate
| |   | |   +--rw config
| |   | |   | +--rw interface-name?     -> /ipi-interface:interfaces/interface/name
| |   | |   | +--rw hash-mask-length?   uint8
| |   | |   | +--rw priority?           uint8
| |   | |   +--ro state
| |   | |     +--ro interface-name?     -> /ipi-interface:interfaces/interface/name
| |   | |     +--ro hash-mask-length?   uint8
| |   | |     +--ro priority?           uint8
| |   | +--rw rp-candidates
| |   |   +--rw rp-candidate* [interface-name]
| |   |     +--rw interface-name    -> ../config/interface-name
| |   |     +--rw config
| |   |     | +--rw interface-name?          -> /ipi-interface:interfaces/interface/name
| |   |     | +--rw access-control-list?     string
```


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```
| |    |       | +--rw advertisement-interval?   uint16
| |    |       | +--rw priority?                 uint8
| |    |       +--ro state
| |    |         +--ro interface-name?          -> /ipi-interface:interfaces/interface/name
| |    |         +--ro access-control-list?     string
| |    |         +--ro advertisement-interval?  uint16
| |    |         +--ro priority?                uint8
| |    +--rw msdp {feature-list:HAVE_PIM_MSDP}?
| |    | +--rw config
| |    | | +--rw originator-id?   string
| |    | +--ro state
| |    | | +--ro originator-id?                        string
| |    | | +--ro source-active-entries-entries-count?  uint32
| |    | +--rw source-active-entries
| |    | | +--rw source-active-entry* [source-address group-address]
| |    | |    +--rw source-address    -> ../config/source-address
| |    | |    +--rw group-address     -> ../config/group-address
| |    | |    +--rw config
| |    | |    | +--rw source-address?   inet:ipv4-address
| |    | |    | +--rw group-address?    inet:ipv4-address
| |    | |    | +--rw rp-address        inet:ipv4-address
| |    | |    +--ro state
| |    | |      +--ro source-address?               inet:ipv4-address
| |    | |      +--ro group-address?                inet:ipv4-address
| |    | |      +--ro rp-address                    inet:ipv4-address
| |    | |      +--ro static-configured?            empty
| |    | |      +--ro uptime?                       string
| |    | |      +--ro expire-time?                  uint32
| |    | |      +--ro stopped?                      empty
| |    | |      +--ro sa-rp-forward-count?          yang:counter64
| |    | |      +--ro reverse-path-forwarding-peer?  inet:ipv4-address
| |    | +--rw peers
| |    |   +--rw peer* [address]
| |    |      +--rw address          -> ../config/address
| |    |      +--rw config
| |    |      | +--rw address?        inet:ipv4-address
```

```
| |   |      | +--rw source-address?   ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| |   |      | +--rw mesh-group?       string
| |   |      | +--rw default-peer?     empty
| |   |      | +--rw prefix-list?      ipi-pim-ipv4-types:pim_ipv4_msdp_peer_acl_t
| |   |      +--ro state
| |   |      | +--ro counters
| |   |      | | +--ro keepalives-sent?       yang:counter64
| |   |      | | +--ro keepalives-received?   yang:counter64
| |   |      | | +--ro connection-retries?    yang:counter64
| |   |      | +--ro address?          inet:ipv4-address
| |   |      | +--ro source-address?   ipi-pim-ipv4-types:pim_ipv4_reg_source_t
| |   |      | +--ro mesh-group?       string
| |   |      | +--ro default-peer?     empty
| |   |      | +--ro prefix-list?      ipi-pim-ipv4-types:pim_ipv4_msdp_peer_acl_t
| |   |      | +--ro peer-state?       ipi-pim-ipv4-types:pim_ipv4_msdp_peer_state_t
| |   |      | +--ro peer-role?        ipi-pim-ipv4-types:pim_ipv4_msdp_peer_role_t
| |   |      +--rw authentication
| |   |        +--rw config
| |   |        | +--rw password?   string {feature-list:HAVE_TCP_MD5SIG}?
| |   |        +--ro state
| |   |          +--ro password?   string {feature-list:HAVE_TCP_MD5SIG}?
| |   +--rw debug
| |   | +--rw config
| |   | | +--rw options?   ipi-pim-ipv4-types:pim_ipv4_debug_t
| |   | +--ro state
| |   |   +--ro options?                ipi-pim-ipv4-types:pim_ipv4_debug_t
| |   |   +--ro terminal-debug-status?   ipi-pim-ipv4-types:pim_ipv4_debug_t
| |   +--ro multicast-route-table
| |     +--ro state
| |     | +--ro counters
| |     |   +--ro xxrp-entries?       yang:counter32
| |     |   +--ro g-prefix-entries?   yang:counter32
| |     |   +--ro xg-entries?         yang:counter32
| |     |   +--ro sg-entries?         yang:counter32
| |     |   +--ro sg-rpt-entries?     yang:counter32
| |     |   +--ro fcr-entries?        yang:counter32
```


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```
   | |       +--ro multicast-routes
   | |         +--ro multicast-route* [source-address group-address type]
   | |           +--ro source-address              -> ../state/source-address
   | |           +--ro group-address               -> ../state/group-address
   | |           +--ro type                      -> ../state/type
   | |           +--ro state
   | |           | +--ro source-address?           inet:ipv4-address
   | |           | +--ro group-address?            inet:ipv4-address
   | |           | +--ro mode?                   ipi-pim-ipv4-types:pim_ipv4_multicast_route_mode_t
   | |           | +--ro type?                   ipi-pim-ipv4-types:pim_ipv4_multicast_route_type_t
   | |           | +--ro uptime?                 string
   | |           | +--ro next-hop-address?         inet:ipv4-address
   | |           | +--ro next-hop-interface-name?  string
   | |           | +--ro last-rendezvous-point?    inet:ipv4-address
   | |           | +--ro spt-switch?             empty
   | |           | +--ro local-olist*            string
   | |           | +--ro joined-olist*           string
   | |           | +--ro inherited-olist*        string
   | |           | +--ro pruned-olist*           string
   | |           +--ro upstream-xxrp
   | |           | +--ro state
   | |           |    +--ro route-state?              ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_state_t
   | |           |    +--ro join-prune-timer?         uint32
   | |           |    +--ro last-rpf-neighbor-address?  inet:ipv4-address
   | |           |    +--ro last-rpf-next-hop-address?  inet:ipv4-address
   | |           |    +--ro macro-state?              ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
   | |           +--ro upstream-xg
   | |           | +--ro state
   | |           |    +--ro route-state?              ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_state_t
   | |           |    +--ro join-prune-timer?         uint32
   | |           |    +--ro last-rpf-neighbor-address?  inet:ipv4-address
   | |           |    +--ro macro-state?              ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
   | |           +--ro upstream-sg
   | |           | +--ro state
   | |           |    +--ro route-state?              ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_state_t
```

```
   | |       |    +--ro join-prune-timer?          uint32
   | |       |    +--ro last-rpf-neighbor-address?   inet:ipv4-address
   | |       |    +--ro keep-alive-timer?          uint32
   | |       |    +--ro spt-switch?                empty
   | |       |    +--ro macro-state?               ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
   | |       +--ro upstream-sg-rpt
   | |       | +--ro state
   | |       |    +--ro route-state?      ipi-pim-ipv4-types:pim_ipv4_multicast_route_upstream_sg_rpt_mode_t
   | |       |    +--ro override-timer?   uint32
   | |       +--ro forwarding-cache-registers
   | |       | +--ro forwarding-cache-register* [address]
   | |       |    +--ro address    -> ../state/address
   | |       |    +--ro state
   | |       |       +--ro address?           inet:ipv4-address
   | |       |       +--ro keep-alive-timer?   uint32
   | |       |       +--ro inherited-olist*    string
   | |       +--ro downstream-interfaces
   | |         +--ro downstream-interface* [interface-name]
   | |           +--ro interface-name          -> ../state/interface-name
   | |           +--ro state
   | |           | +--ro interface-name?   string
   | |           +--ro downstream-xg-sg
   | |           | +--ro state
   | |           |    +--ro route-state?          ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_state_t
   | |           |    +--ro expiry-timer?         uint32
   | |           |    +--ro prune-pending-timer?   uint32
   | |           |    +--ro assert-state?         ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_assert_state_t
   | |           |    +--ro assert-timer?         uint32
   | |           |    +--ro winner-address?       inet:ipv4-address
   | |           |    +--ro metric?               uint32
   | |           |    +--ro preference?           uint32
   | |           |    +--ro rpt-bit?              empty
   | |           |    +--ro macro-state?          ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_macro_state_t
   | |           +--ro downstream-xxrp-sg-rpt
   | |             +--ro state
   | |                +--ro route-state?          ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_state_t
```


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```
| |                +--ro rpt-state?          ipi-pim-ipv4-types:pim_ipv4_multicast_route_downstream_rpt_state_t
| |                +--ro expiry-timer?       uint32
| |                +--ro prune-pending-timer?   uint32
| +--rw interfaces
|   +--rw interface* [name]
|     +--rw name           -> ../config/name
|     +--rw config
|     | +--rw name?                          -> /ipi-interface:interfaces/interface/name
|     | +--rw pim-mode?                       ipi-pim-ipv4-types:pim_ipv4_mode_t
|     | +--rw bsr-border?                     empty {feature-list:HAVE_PIM_SM}?
|     | +--rw dr-priority?                    uint32
|     | +--rw hello-interval?                 uint16
|     | +--rw hello-holdtime?                 uint16
|     | +--rw passive-enable?                 empty
|     | +--rw exclude-generated-id?           empty {feature-list:HAVE_PIM_SM}?
|     | +--rw unicast-bootstrap-router?       empty {feature-list:HAVE_PIM_SM}?
|     | +--rw neighbor-access-control-list-filter?   string
|     | +--rw state-refresh-origination-interval?    uint16 {feature-list:HAVE_PIM_DM}?
|     | +--rw ecmp-bundle?                    string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
|     | +--rw propagation-delay?              uint16
|     | +--rw enable-bfd?                     cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
|     +--ro state
|     | +--ro name?                          -> /ipi-interface:interfaces/interface/name
|     | +--ro pim-mode?                       ipi-pim-ipv4-types:pim_ipv4_mode_t
|     | +--ro bsr-border?                     empty {feature-list:HAVE_PIM_SM}?
|     | +--ro dr-priority?                    uint32
|     | +--ro hello-interval?                 uint16
|     | +--ro hello-holdtime?                 uint16
|     | +--ro passive-enable?                 empty
|     | +--ro exclude-generated-id?           empty {feature-list:HAVE_PIM_SM}?
|     | +--ro unicast-bootstrap-router?       empty {feature-list:HAVE_PIM_SM}?
|     | +--ro neighbor-access-control-list-filter?   string
|     | +--ro state-refresh-origination-interval?    uint16 {feature-list:HAVE_PIM_DM}?
|     | +--ro ecmp-bundle?                    string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
|     | +--ro propagation-delay?              uint16
|     | +--ro enable-bfd?                     cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
```

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```
|       | +--ro next-hello?                        string
|       | +--ro router-id?                         inet:ipv4-address
|       | +--ro local-id?                          uint32
|       | +--ro dr-address?                        inet:ipv4-address
|       +--ro neighbors
|       | +--ro neighbor* [address]
|       |    +--ro address    -> ../state/address
|       |    +--ro state
|       |       +--ro address?                inet:ipv4-address
|       |       +--ro designated-router?      empty
|       |       +--ro neighbor-established?   string
|       |       +--ro neighbor-expires?       string
|       |       +--ro secondary-address*      inet:ipv4-address
|       |       +--ro hello-holdtime?         uint16
|       |       +--ro lan-delay?              uint16
|       |       +--ro override-interval?      uint32
|       |       +--ro dr-priority?            uint32 {feature-list:HAVE_PIM_SM}?
|       |       +--ro generated-id?           uint32
|       |       +--ro router-id?              inet:ipv4-address
|       |       +--ro local-id?               uint32
|       |       +--ro tracking-support?       empty
|       |       +--ro ecmp-redirect-enabled?   empty {feature-list:HAVE_PIM_ECMP_REDIRECT}?
|       +--rw pim-redundancy
|         +--rw vrrp {feature-list:HAVE_PIM_SM_VRRP_AWARE}?
|            +--rw config!
|            | +--rw virtual-router-id    uint8
|            | +--rw dr-priority          uint32
|            +--ro state
|               +--ro virtual-router-id      uint8
|               +--ro dr-priority            uint32
|               +--ro selected-dr-priority?   uint32
|               +--ro vrrp-master?           boolean
+--rw ipv6
  +--rw instances
  | +--rw instance* [vrf-name]
  |    +--rw vrf-name               -> ../config/vrf-name
```


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```
|    +--rw config
|    | +--rw vrf-name?                -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|    | +--rw router-id?               inet:ipv4-address {feature-list:HAVE_PIM_SM}?
|    | +--rw join-prune-interval?     uint16 {feature-list:HAVE_PIM_SM}?
|    | +--rw ecmp-bundle*             string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
|    | +--rw enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
|    +--ro state
|    | +--ro vrf-name?                -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|    | +--ro router-id?               inet:ipv4-address {feature-list:HAVE_PIM_SM}?
|    | +--ro join-prune-interval?     uint16 {feature-list:HAVE_PIM_SM}?
|    | +--ro ecmp-bundle*             string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
|    | +--ro enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
|    | +--ro counters
|    | | +--ro joins-sent?       yang:counter64
|    | | +--ro joins-received?   yang:counter64
|    | +--ro rp-sets
|    |   +--ro rp-set* [group-address]
|    |     +--ro group-address    -> ../state/group-address
|    |     +--ro state
|    |     | +--ro group-address?     cml-data-types:cml_ipv6_prefix_t
|    |     | +--ro fragment-tag?      uint16
|    |     | +--ro number-of-rp?      uint32
|    |     | +--ro expiration-time?   string
|    |     +--ro rps
|    |       +--ro rp* [rp-address]
|    |         +--ro rp-address    -> ../state/rp-address
|    |         +--ro state
|    |           +--ro rp-address?       inet:ipv6-address
|    |           +--ro from?             inet:ipv6-address
|    |           +--ro mode?             ipi-pim-ipv6-types:pim_ipv6_rp_mode_t
|    |           +--ro type?             ipi-pim-ipv6-types:pim_ipv6_rp_type_t
|    |           +--ro priority?         uint8
|    |           +--ro hold-time?        uint16
|    |           +--ro up-time?          string
|    |           +--ro expiration-time?   string
```

```
|    +--ro next-hop-destinations
|    |  +--ro next-hop-destination* [destination-address]
|    |     +--ro destination-address    -> ../state/destination-address
|    |     +--ro state
|    |     |  +--ro destination-address?            inet:ipv6-address
|    |     |  +--ro destination-type?               ipi-pim-ipv6-types:pim_ipv6_next_hop_flags_t
|    |     |  +--ro next-hop-count?                 uint32
|    |     |  +--ro preference?                     uint16
|    |     |  +--ro metric?                         uint32
|    |     |  +--ro reference-count?                uint32
|    |     |  +--ro route-type?                     ipi-pim-ipv6-types:pim_ipv6_route_type_t
|    |     |  +--ro route-sub-type?                 ipi-pim-ipv6-types:pim_ipv6_route_sub_type_t
|    |     |  +--ro subaddress-familiy-identifier?  uint32
|    |     |  +--ro interface-index?                uint16
|    |     +--ro next-hops
|    |        +--ro next-hop* [ipv6-address]
|    |           +--ro ipv6-address    -> ../state/ipv6-address
|    |           +--ro state
|    |              +--ro ipv6-address?              inet:ipv6-address
|    |              +--ro type?                      ipi-pim-ipv6-types:pim_ipv6_next_hop_type_t
|    |              +--ro recursive-active-next-hop?  uint8
|    |              +--ro recursive-type?            ipi-pim-ipv6-types:pim_ipv6_next_hop_type_t
|    |              +--ro recursive-interface-id?     uint8
|    |              +--ro interface-index?           uint16
|    |              +--ro bfd-interface-index?       uint16
|    |              +--ro interface-name?            string
|    +--rw register-packet {feature-list:HAVE_PIM_SM}?
|    |  +--rw config
|    |  |  +--rw register-reachability-check?  cml-data-types:cml_enable_disable_t
|    |  |  +--rw rate-limit?                   uint16
|    |  |  +--rw suppress-interval?            uint16
|    |  |  +--rw keep-alive-interval?          uint16
|    |  |  +--rw source-address?               ipi-pim-ipv6-types:pim_ipv6_reg_source_t
|    |  |  +--rw accept-register?              string
|    |  +--ro state
|    |     +--ro register-reachability-check?  cml-data-types:cml_enable_disable_t
```


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```
|    |    +--ro rate-limit?                  uint16
|    |    +--ro suppress-interval?           uint16
|    |    +--ro keep-alive-interval?         uint16
|    |    +--ro source-address?              ipi-pim-ipv6-types:pim_ipv6_reg_source_t
|    |    +--ro accept-register?             string
|    |    +--ro counters
|    |       +--ro register-packet-received?   yang:counter64
|    |       +--ro register-null-received?     yang:counter64
|    |       +--ro register-stop-sent?         yang:counter64
|    |       +--ro register-stop-received?     yang:counter64
|    +--rw interop
|    |  +--rw config
|    |  |  +--rw ignore-rp-set-priority?     empty {feature-list:HAVE_PIM_SM}?
|    |  |  +--rw cisco-bsr-interop-enable?   empty {feature-list:HAVE_PIM_SM}?
|    |  +--ro state
|    |  |  +--ro ignore-rp-set-priority?     empty {feature-list:HAVE_PIM_SM}?
|    |  |  +--ro cisco-bsr-interop-enable?   empty {feature-list:HAVE_PIM_SM}?
|    |  +--rw register-packet
|    |    +--rw config!
|    |    |  +--rw cisco-register-checksum-enable    empty {feature-list:HAVE_PIM_SM}?
|    |    |  +--rw access-control-list?              string {feature-list:HAVE_PIM_SM}?
|    |    +--ro state
|    |       +--ro cisco-register-checksum-enable    empty {feature-list:HAVE_PIM_SM}?
|    |       +--ro access-control-list?              string {feature-list:HAVE_PIM_SM}?
|    +--rw spt-switch
|    |  +--rw config!
|    |  |  +--rw enable                empty {feature-list:HAVE_PIM_SM}?
|    |  |  +--rw access-control-list?  string {feature-list:HAVE_PIM_SM}?
|    |  +--ro state
|    |    +--ro enable                empty {feature-list:HAVE_PIM_SM}?
|    |    +--ro access-control-list?  string {feature-list:HAVE_PIM_SM}?
|    +--rw ssm {feature-list:HAVE_PIM_SSM}?
|    |  +--rw config
|    |  |  +--rw range-policy?  ipi-pim-ipv6-types:pim_ipv6_ssm_range_policy_type_t
|    |  +--ro state
|    |    +--ro range-policy?  ipi-pim-ipv6-types:pim_ipv6_ssm_range_policy_type_t
```

```
|    +--rw anycast-rps {feature-list:HAVE_PIM_SM}?
|    |  +--rw anycast-rp* [anycast-rp-address member-rp-address]
|    |     +--rw anycast-rp-address    -> ../config/anycast-rp-address
|    |     +--rw member-rp-address     -> ../config/member-rp-address
|    |     +--rw config
|    |     |  +--rw anycast-rp-address?   inet:ipv6-address
|    |     |  +--rw member-rp-address?    inet:ipv6-address
|    |     +--ro state
|    |        +--ro anycast-rp-address?   inet:ipv6-address
|    |        +--ro member-rp-address?    inet:ipv6-address
|    +--rw rendezvous-point
|    |  +--rw config
|    |  |  +--rw embed-rp?   cml-data-types:cml_enable_disable_t
|    |  +--ro state
|    |  |  +--ro embed-rp?   cml-data-types:cml_enable_disable_t
|    |  +--rw static-rps
|    |  |  +--rw static-rps-default
|    |  |     +--rw static-rp-default* [rp-address]
|    |  |        +--rw rp-address    -> ../config/rp-address
|    |  |        +--rw config
|    |  |        |  +--rw rp-address?                    inet:ipv6-address
|    |  |        |  +--rw access-control-list?           string
|    |  |        |  +--rw override-dynamically-learned-rp?   empty
|    |  |        +--ro state
|    |  |           +--ro rp-address?                    inet:ipv6-address
|    |  |           +--ro access-control-list?           string
|    |  |           +--ro override-dynamically-learned-rp?   empty
|    |  +--rw bootstrap-router
|    |  |  +--rw bsr-candidate
|    |  |     +--rw config
|    |  |     |  +--rw interface-name?     -> /ipi-interface:interfaces/interface/name
|    |  |     |  +--rw hash-mask-length?   uint8
|    |  |     |  +--rw priority?           uint8
|    |  |     +--ro state
|    |  |        +--ro interface-name?     -> /ipi-interface:interfaces/interface/name
|    |  |        +--ro hash-mask-length?   uint8
```


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```
|    | |       +--ro priority?          uint8
|    | +--rw rp-candidates
|    |    +--rw rp-candidate* [interface-name]
|    |       +--rw interface-name    -> ../config/interface-name
|    |       +--rw config
|    |       | +--rw interface-name?          -> /ipi-interface:interfaces/interface/name
|    |       | +--rw access-control-list?     string
|    |       | +--rw advertisement-interval?  uint16
|    |       | +--rw priority?                uint8
|    |       +--ro state
|    |          +--ro interface-name?          -> /ipi-interface:interfaces/interface/name
|    |          +--ro access-control-list?     string
|    |          +--ro advertisement-interval?  uint16
|    |          +--ro priority?                uint8
|    +--rw debug
|    | +--rw config
|    | | +--rw options?   ipi-pim-ipv6-types:pim_ipv6_debug_t
|    | +--ro state
|    |    +--ro options?                ipi-pim-ipv6-types:pim_ipv6_debug_t
|    |    +--ro terminal-debug-status?  ipi-pim-ipv6-types:pim_ipv6_debug_t
|    +--ro multicast-route-table
|       +--ro state
|       | +--ro counters
|       |    +--ro xxrp-entries?       yang:counter32
|       |    +--ro g-prefix-entries?   yang:counter32
|       |    +--ro xg-entries?         yang:counter32
|       |    +--ro sg-entries?         yang:counter32
|       |    +--ro sg-rpt-entries?     yang:counter32
|       |    +--ro fcr-entries?        yang:counter32
|       +--ro multicast-routes
|          +--ro multicast-route* [source-address group-address type]
|             +--ro source-address               -> ../state/source-address
|             +--ro group-address                -> ../state/group-address
|             +--ro type                         -> ../state/type
|             +--ro state
|             | +--ro source-address?           inet:ipv6-address
```

```
|       | +--ro group-address?            inet:ipv6-address
|       | +--ro mode?                     ipi-pim-ipv6-types:pim_ipv6_multicast_route_mode_t
|       | +--ro type?                     ipi-pim-ipv6-types:pim_ipv6_multicast_route_type_t
|       | +--ro uptime?                   string
|       | +--ro next-hop-address?         inet:ipv6-address
|       | +--ro next-hop-interface-name?  string
|       | +--ro last-rendezvous-point?    inet:ipv6-address
|       | +--ro spt-switch?               empty
|       | +--ro local-olist*              string
|       | +--ro joined-olist*             string
|       | +--ro inherited-olist*          string
|       | +--ro pruned-olist*             string
|       +--ro upstream-xxrp
|       | +--ro state
|       |    +--ro route-state?           ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_state_t
|       |    +--ro join-prune-timer?      uint32
|       |    +--ro last-rpf-neighbor-address?  inet:ipv6-address
|       |    +--ro last-rpf-next-hop-address?  inet:ipv6-address
|       |    +--ro macro-state?           ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
|       +--ro upstream-xg
|       | +--ro state
|       |    +--ro route-state?           ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_state_t
|       |    +--ro join-prune-timer?      uint32
|       |    +--ro last-rpf-neighbor-address?  inet:ipv6-address
|       |    +--ro macro-state?           ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
|       +--ro upstream-sg
|       | +--ro state
|       |    +--ro route-state?           ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_state_t
|       |    +--ro join-prune-timer?      uint32
|       |    +--ro last-rpf-neighbor-address?  inet:ipv6-address
|       |    +--ro keep-alive-timer?      uint32
|       |    +--ro spt-switch?            empty
|       |    +--ro macro-state?           ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_macro_state_t
{feature-list:HAVE_PIM_SM}?
|       +--ro upstream-sg-rpt
```


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```
|            | +--ro state
|            |    +--ro route-state?      ipi-pim-ipv6-types:pim_ipv6_multicast_route_upstream_sgrpt_mode_t
|            |    +--ro override-timer?   uint32
|            +--ro forwarding-cache-registers
|            | +--ro forwarding-cache-register* [address]
|            |    +--ro address    -> ../state/address
|            |    +--ro state
|            |       +--ro address?           inet:ipv6-address
|            |       +--ro keep-alive-timer?   uint32
|            |       +--ro inherited-olist*    string
|            +--ro downstream-interfaces
|              +--ro downstream-interface* [interface-name]
|                 +--ro interface-name           -> ../state/interface-name
|                 +--ro state
|                 | +--ro interface-name?   string
|                 +--ro downstream-xg-sg
|                 | +--ro state
|                 |    +--ro route-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_state_t
|                 |    +--ro expiry-timer?         uint32
|                 |    +--ro prune-pending-timer?   uint32
|                 |    +--ro assert-state?         ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_assert_state_t
|                 |    +--ro assert-timer?         uint32
|                 |    +--ro winner-address?       inet:ipv6-address
|                 |    +--ro metric?               uint32
|                 |    +--ro preference?           uint32
|                 |    +--ro rpt-bit?              empty
|                 |    +--ro macro-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_macro_state_t
|                 +--ro downstream-xxrp-sg-rpt
|                    +--ro state
|                       +--ro route-state?          ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_state_t
|                       +--ro rpt-state?            ipi-pim-ipv6-types:pim_ipv6_multicast_route_downstream_rpt_state_t
|                       +--ro expiry-timer?         uint32
|                       +--ro prune-pending-timer?   uint32
+--rw interfaces
   +--rw interface* [name]
      +--rw name        -> ../config/name
```

```
+--rw config
|  +--rw name?                          -> /ipi-interface:interfaces/interface/name
|  +--rw pim-mode?                       ipi-pim-ipv6-types:pim_ipv6_mode_t
|  +--rw bsr-border?                     empty {feature-list:HAVE_PIM_SM}?
|  +--rw dr-priority?                    uint32
|  +--rw hello-interval?                 uint16
|  +--rw hello-holdtime?                 uint16
|  +--rw passive-enable?                 empty
|  +--rw exclude-generated-id?           empty {feature-list:HAVE_PIM_SM}?
|  +--rw unicast-bootstrap-router?       empty {feature-list:HAVE_PIM_SM}?
|  +--rw neighbor-access-control-list-filter?   string
|  +--rw state-refresh-origination-interval?    uint16 {feature-list:HAVE_PIM_DM}?
|  +--rw ecmp-bundle?                    string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
|  +--rw propagation-delay?              uint16
|  +--rw enable-bfd?                     cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
+--ro state
|  +--ro name?                          -> /ipi-interface:interfaces/interface/name
|  +--ro pim-mode?                       ipi-pim-ipv6-types:pim_ipv6_mode_t
|  +--ro bsr-border?                     empty {feature-list:HAVE_PIM_SM}?
|  +--ro dr-priority?                    uint32
|  +--ro hello-interval?                 uint16
|  +--ro hello-holdtime?                 uint16
|  +--ro passive-enable?                 empty
|  +--ro exclude-generated-id?           empty {feature-list:HAVE_PIM_SM}?
|  +--ro unicast-bootstrap-router?       empty {feature-list:HAVE_PIM_SM}?
|  +--ro neighbor-access-control-list-filter?   string
|  +--ro state-refresh-origination-interval?    uint16 {feature-list:HAVE_PIM_DM}?
|  +--ro ecmp-bundle?                    string {feature-list:HAVE_PIM_ECMP_REDIRECT}?
|  +--ro propagation-delay?              uint16
|  +--ro enable-bfd?                     cml-data-types:cml_enable_disable_t {feature-list:HAVE_BFD}?
|  +--ro next-hello?                     string
|  +--ro router-id?                      inet:ipv4-address
|  +--ro local-id?                       uint32
|  +--ro dr-address?                     inet:ipv6-address
+--ro neighbors
   +--ro neighbor* [address]
```


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```
          +--ro address    -> ../state/address
          +--ro state
            +--ro address?                inet:ipv6-address
            +--ro designated-router?      empty
            +--ro neighbor-established?   string
            +--ro neighbor-expires?       string
            +--ro secondary-address*      inet:ipv6-address
            +--ro hello-holdtime?         uint16
            +--ro lan-delay?              uint16
            +--ro override-interval?      uint32
            +--ro dr-priority?            uint32 {feature-list:HAVE_PIM_SM}?
            +--ro generated-id?           uint32
            +--ro router-id?              inet:ipv4-address
            +--ro local-id?               uint32
            +--ro tracking-support?       empty
            +--ro ecmp-redirect-enabled?  empty {feature-list:HAVE_PIM_ECMP_REDIRECT}?

rpcs:
  +---x pim-snmp-restart {feature-list:HAVE_SNMP}?
  +---x pim-ipv4-clear-bsr-rendezvous-point {feature-list:HAVE_PIM_IPV4,feature-list:HAVE_PIM_SM}?
  |  +---w input
  |     +---w vrf-name?   string
  |     +---w pim-mode    ipi-pim-ipv4-types:pim_ipv4_mode_clear_bsr_rp_t
  +---x pim-ipv4-clear-multicast-route {feature-list:HAVE_PIM_IPV4}?
  |  +---w input
  |     +---w vrf-name?   string
  |     +---w pim-mode    ipi-pim-ipv4-types:pim_ipv4_mode_t
  +---x pim-ipv4-clear-multicast-route-source-group {feature-list:HAVE_PIM_IPV4}?
  |  +---w input
  |     +---w vrf-name?       string
  |     +---w group-address   inet:ipv4-address
  +---x pim-ipv4-clear-multicast-route-source-group-mode {feature-list:HAVE_PIM_IPV4}?
  |  +---w input
  |     +---w vrf-name?       string
  |     +---w group-address   inet:ipv4-address
  |     +---w source-address  inet:ipv4-address
```

```
|    +---w pim-mode          ipi-pim-ipv4-types:pim_ipv4_mode_t
+---x pim-ipv4-clear-msdp-peer {feature-list:HAVE_PIM_IPV4,feature-list:HAVE_PIM_MSDP_API}?
| +---w input
|    +---w vrf-name?   string
|    +---w address     inet:ipv4-address
+---x pim-ipv4-clear-msdp-sa-cache {feature-list:HAVE_PIM_IPV4,feature-list:HAVE_PIM_MSDP_API}?
| +---w input
|    +---w vrf-name?        string
|    +---w group-address    inet:ipv4-address
+---x pim-ipv4-terminal-debug-on {feature-list:HAVE_PIM_IPV4}?
| +---w input
|    +---w vrf-name?                string
|    +---w terminal-debug-options    ipi-pim-ipv4-types:pim_ipv4_debug_t
+---x pim-ipv4-terminal-debug-off {feature-list:HAVE_PIM_IPV4}?
| +---w input
|    +---w vrf-name?                string
|    +---w terminal-debug-options    ipi-pim-ipv4-types:pim_ipv4_debug_t
+---x pim-ipv4-terminal-debug-all-on {feature-list:HAVE_PIM_IPV4}?
| +---w input
|    +---w vrf-name?   string
+---x pim-ipv4-terminal-debug-all-off {feature-list:HAVE_PIM_IPV4}?
| +---w input
|    +---w vrf-name?   string
+---x pim-ipv6-clear-bsr-rendezvous-point {feature-list:HAVE_PIM_IPV6,feature-list:HAVE_PIM_SM}?
| +---w input
|    +---w vrf-name?   string
|    +---w pim-mode    ipi-pim-ipv6-types:pim_ipv6_mode_clear_bsr_rp_t
+---x pim-ipv6-clear-multicast-route {feature-list:HAVE_PIM_IPV6}?
| +---w input
|    +---w vrf-name?   string
|    +---w pim-mode    ipi-pim-ipv6-types:pim_ipv6_mode_t
+---x pim-ipv6-clear-multicast-route-source-group {feature-list:HAVE_PIM_IPV6}?
| +---w input
|    +---w vrf-name?        string
|    +---w group-address    inet:ipv6-address
+---x pim-ipv6-clear-multicast-route-source-group-mode {feature-list:HAVE_PIM_IPV6}?
```


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```
  |  +---w input
  |     +---w vrf-name?         string
  |     +---w group-address     inet:ipv6-address
  |     +---w source-address    inet:ipv6-address
  |     +---w pim-mode          ipi-pim-ipv6-types:pim_ipv6_mode_t
  +---x pim-terminal-debug-bfd-on {feature-list:HAVE_PIMD,feature-list:HAVE_PIM_IPV4,feature-
list:HAVE_PIM_IPV4_OR_HAVE_PIM_IPV6}?
  +---x pim-terminal-debug-bfd-off {feature-list:HAVE_PIMD,feature-list:HAVE_PIM_IPV4,feature-
list:HAVE_PIM_IPV4_OR_HAVE_PIM_IPV6}?
  +---x pim-ipv6-terminal-debug-on {feature-list:HAVE_PIM_IPV6}?
  |  +---w input
  |     +---w vrf-name?                 string
  |     +---w terminal-debug-options    ipi-pim-ipv6-types:pim_ipv6_debug_t
  +---x pim-ipv6-terminal-debug-off {feature-list:HAVE_PIM_IPV6}?
  |  +---w input
  |     +---w vrf-name?                 string
  |     +---w terminal-debug-options    ipi-pim-ipv6-types:pim_ipv6_debug_t
  +---x pim-ipv6-terminal-debug-all-on {feature-list:HAVE_PIM_IPV6}?
  |  +---w input
  |     +---w vrf-name?   string
  +---x pim-ipv6-terminal-debug-all-off {feature-list:HAVE_PIM_IPV6}?
     +---w input
        +---w vrf-name?   string
```

ipi-ping

```
 +--rw ping
    +--ro test-result* [test-name]
       +--ro test-name          -> ../state/test-name
       +--ro replies* [sequence-number]
       |  +--ro sequence-number    -> ../state/sequence-number
       |  +--ro state
       |     +--ro sequence-number?    uint32
       |     +--ro ttl-or-hop-limit?   uint8
       |     +--ro round-trip-time?    decimal64
```

```
      |    +--ro result?             ipi-ping-types:ping_packet_result_t
      +--ro state
      |  +--ro test-name?     string
      |  +--ro test-status?   ipi-ping-types:ping_test_status_t
      |  +--ro start-time?    yang:date-and-time
      |  +--ro end-time?      yang:date-and-time
      +--ro test-parameters
      |  +--ro state
      |    +--ro destination?     string
      |    +--ro protocol?        ipi-ping-types:ping_ip_protocol_t
      |    +--ro vrf-name?        string
      |    +--ro repeat-count?    uint32
      |    +--ro interval?        uint16
      |    +--ro time-to-live?    uint8
      |    +--ro datagram-size?   uint32
      |    +--ro timeout?         uint32
      |    +--ro deadline?        uint32
      +--ro summary-info
        +--ro state
          +--ro packets-transmitted?   uint32
          +--ro packets-received?      uint32
          +--ro success-rate?          uint8
          +--ro loss-rate?             uint8
          +--ro min-rtt?               decimal64
          +--ro rtt-avg?               decimal64
          +--ro max-rtt?               decimal64

rpcs:
  +---x ping-start-test {feature-list:HAVE_HOSTPD}?
  |  +---w input
  |    +---w test-name        string
  |    +---w destination      string
  |    +---w protocol         ipi-ping-types:ping_ip_protocol_t
  |    +---w vrf-name?        string
  |    +---w repeat-count?    uint32
  |    +---w interval?        uint16
```


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```
  |     +---w time-to-live?    uint8
  |     +---w datagram-size?   uint32
  |     +---w timeout?         uint32
  |     +---w deadline?        uint32
  +---x ping-stop {feature-list:HAVE_HOSTPD}?
    +---w input
      +---w test-name    string

notifications:
  +---n ping-test-completed
    +--ro severity?      cml-data-types:cml_notif_severity_t
    +--ro eventClass?    cml-data-types:cml_notif_class_t
    +--ro test-name?     string
    +--ro test-status?   ipi-ping-types:ping_test_status_t
    +--ro destination?   string
```

ipi-platform-port

```
augment /ipi-platform:components/ipi-platform:component:
  +--ro port
```

ipi-platform-transceiver-smart-sfp

```
+--rw smart-sfp
   +--rw interfaces
   |  +--rw interface* [interface-name]
   |     +--rw interface-name    -> ../config/interface-name
   |     +--rw config
   |     |  +--rw interface-name?         -> /ipi-interface:interfaces/interface/name
   |     |  +--rw xcvr-loopback-remote?   cmm_xcvr_direction_t
   |     +--ro state
   |        +--ro interface-name?         -> /ipi-interface:interfaces/interface/name
   |        +--ro xcvr-loopback-remote?   cmm_xcvr_direction_t
   +--rw components
      +--ro component* [name]
         +--ro name     -> ../state/name
         +--ro state
            +--ro name?   string

rpcs:
  +---x smart-sfp-xcvr-txdisable-duration {feature-list:HAVE_CMMD}?
  |  +---w input
  |     +---w if-name                    string
  |     +---w xcvr-tx-disable-duration    uint16
  +---x smart-sfp-xcvr-reset-remote {feature-list:HAVE_CMMD}?
     +---w input
        +---w if-name    string
```

ipi-platform

```
+--rw components
|  +--ro component* [name]
|  |  +--ro name                    -> ../state/name
|  |  +--ro state
|  |  |  +--ro name?                      string
|  |  |  +--ro type?                      ipi-platform-types:cmm_component_type_t {feature-list:NOT_HAVE_TIBIT}?
|  |  |  +--ro location?                  string {feature-list:NOT_HAVE_TIBIT}?
```


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```
  | | | +--ro mfg-name?                  string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro mfg-date?                 yang:date-and-time {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro description?              string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro hardware-version?         string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro firmware-version?         string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro software-version?         string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro serial-no?                string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro part-no?                  string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro removable?                boolean {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro oper-status?              ipi-platform-types:cmm_component_oper_status_t {feature-
list:NOT_HAVE_TIBIT}?
  | | | +--ro product-name?             string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro asset-tag?                string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro component-additional-details*   string {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro parent?                   -> /components/component/state/name {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro empty?                    boolean {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro memory {feature-list:NOT_HAVE_TIBIT}?
  | | | | +--ro available?   uint64
  | | | | +--ro utilized?    uint64
  | | | +--ro board-fru {feature-list:NOT_HAVE_TIBIT}?
  | | | | +--ro board-name?       string
  | | | | +--ro board-serial-no?   string
  | | | | +--ro board-mfg-name?    string
  | | | | +--ro board-mfg-date?    yang:date-and-time
  | | | +--ro temperature
  | | |    +--ro instant?                decimal64
  | | |    +--ro min?                    decimal64
  | | |    +--ro max?                    decimal64
  | | |    +--ro avg?                    decimal64
  | | |    +--ro interval?               uint32
  | | |    +--ro sensor-name?            string
  | | |    +--ro sensor-index?           uint8
  | | |    +--ro alarm-status?           boolean
  | | |    +--ro alarm-threshold?        decimal64
  | | |    +--ro alarm-severity?         cml_alarm_severity_t
  | | |    +--ro minimum-emergency-temperature?   decimal64
  | | |    +--ro maximum-emergency-temperature?   decimal64
```

```
| | |    +--ro minimum-alert-temperature?       decimal64
| | |    +--ro maximum-alert-temperature?       decimal64
| | |    +--ro minimum-critical-temperature?    decimal64
| | |    +--ro maximum-critical-temperature?    decimal64
| | +--ro bmc-sensor-data-record {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro state
| | |    +--ro sensor-name?             string
| | |    +--ro value?                   ipi-platform-types:cmm_bmc_value_t
| | |    +--ro units?                   string
| | |    +--ro lower-non-recoverable?   decimal64
| | |    +--ro lower-non-critical?      decimal64
| | |    +--ro lower-critical?          decimal64
| | |    +--ro upper-non-critical?      decimal64
| | |    +--ro upper-critical?          decimal64
| | |    +--ro upper-non-recoverable?   decimal64
| | |    +--ro operational-status?      string
| | |    +--ro threshold?               decimal64
| | |    +--ro event-type?              ipi-platform-types:cmm_bmc_event_type_t
| | +--ro subcomponents
| | | +--ro subcomponent* [subcomponent-name]
| | |    +--ro subcomponent-name    -> ../state/subcomponent-name
| | |    +--ro state
| | |       +--ro subcomponent-name?   -> /components/component/state/name
| | +--ro cpu
| | | +--ro state
| | |    +--ro processor-count?              uint32
| | |    +--ro cpu-1min-load-percentage?     decimal64
| | |    +--ro cpu-5min-load-percentage?     decimal64
| | |    +--ro cpu-15min-load-percentage?    decimal64
| | |    +--ro cpu-1min-alert-threshold?     uint8
| | |    +--ro cpu-1min-critical-threshold?  uint8
| | |    +--ro cpu-5min-alert-threshold?     uint8
| | |    +--ro cpu-15min-alert-threshold?    uint8
| | |    +--ro cpu-utilization?              decimal64
| | |    +--ro cpu-utilization-alert?        uint8
| | |    +--ro cpu-utilization-critical?     uint8
```


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```
| | +--ro storage
| | | +--ro state
| | | | +--ro serial-number?                          string
| | | | +--ro model-number?                           string
| | | | +--ro firmware-revision?                      string
| | | | +--ro cylinder-count?                         uint16
| | | | +--ro head-count?                             uint16
| | | | +--ro sector-count?                           uint32
| | | | +--ro unformatted-bytes-or-track?             uint16
| | | | +--ro unformatted-bytes-or-sector?            uint16
| | | | +--ro revision-number?                        string
| | | | +--ro total-memory?                           uint64
| | | | +--ro used-memory?                            uint64
| | | | +--ro free-memory?                            uint64
| | | | +--ro usage-critical-threshold?               int32
| | | | +--ro usage-alert-threshold?                  int32
| | | | +--ro remaining-life?                         int32
| | | | +--ro remain-life-critical-threshold?         int32
| | | | +--ro remain-life-alert-threshold?            int32
| | | | +--ro available-reserved-space?               int32
| | | | +--ro available-reserved-space-critical-threshold?   int32
| | | | +--ro available-reserved-space-alert-threshold?      int32
| | | | +--ro reallocated-sector-count?               int32
| | | | +--ro uncorrectable-sector-count?             int32
| | | | +--ro manufacturer-id?                        string
| | | | +--ro manufacture-date?                       string
| | | | +--ro device-type?                            string
| | | | +--ro cache-size?                             uint64
| | | | +--ro storage-status?                         ipi-platform-types:cml_cmm_storage_status_t
| | | +--ro harddisk-monitoring
| | | | +--ro state
| | | |    +--ro interval?          int32
| | | |    +--ro read-average?      int32
| | | |    +--ro write-average?     int32
| | | |    +--ro read-current?      int32
| | | |    +--ro write-current?     int32
```

```
 | | | |    +--ro read-threshold?    int32
 | | | |    +--ro write-threshold?   int32
 | | | +--ro mounted-filesystems
 | | |    +--ro mounted-filesystem* [mount-point]
 | | |       +--ro mount-point    -> ../state/mount-point
 | | |       +--ro state
 | | |          +--ro mount-point?   string
 | | |          +--ro total?         uint64
 | | |          +--ro used?          uint64
 | | |          +--ro free?          uint64
 | | |          +--ro usage?         uint8
 | | +--ro ram
 | | | +--ro state
 | | |    +--ro total-memory?              uint64
 | | |    +--ro used-memory?               uint64
 | | |    +--ro available-memory?          uint64
 | | |    +--ro shared-memory?             uint64
 | | |    +--ro buffers?                   uint64
 | | |    +--ro total-swap?                uint64
 | | |    +--ro free-swap?                 uint64
 | | |    +--ro current-process-count?     uint16
 | | |    +--ro total-high-memory?         uint64
 | | |    +--ro available-high-memory?     uint64
 | | |    +--ro unit-size?                 uint32
 | | |    +--ro usage-critical-threshold?  uint32
 | | |    +--ro usage-alert-threshold?     uint32
 | | +--ro transceiver {feature-list:NOT_HAVE_TIBIT}?
 | | | +--ro state
 | | | | +--ro port-no?                          uint8
 | | | | +--ro presence?                         ipi-platform-transceiver-types:ddm_cmm_trans_presence_t
 | | | | +--ro type?                             ipi-platform-transceiver-types:ddm_cmm_trans_type_t
 | | | | +--ro channel-count?                    int32
 | | | | +--ro transceiver-identifier?           ipi-platform-transceiver-types:ddm_cmm_trans_identifier_t
 | | | | +--ro connector-type?                   ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
 | | | | +--ro ethernet-compliance-code?         ipi-platform-transceiver-types:ddm_cmm_trans_eth_compliance_t
 | | | | +--ro extended-ethernet-compliance-code?  ipi-platform-transceiver-
types:ddm_cmm_trans_ext_eth_compliance_t
```


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```
  | | | | +--ro sonet-compliance-code?                ipi-platform-transceiver-types:ddm_cmm_trans_sonet_compliance_t
  | | | | +--ro fiber-channel-link-length?            ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_linklen_t
  | | | | +--ro fiber-channel-transmission-technology?  ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmittech_t
  | | | | +--ro fiber-channel-transmission-media?       ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmitmedia_t
  | | | | +--ro serial-encoding-algorithm?            ipi-platform-transceiver-types:ddm_cmm_trans_encoding_t
  | | | | +--ro link-length-kilometer?                int32
  | | | | +--ro link-length-meter?                    int32
  | | | | +--ro om1-link-length?                      int32
  | | | | +--ro om2-link-length?                      int32
  | | | | +--ro om3-link-length?                      int32
  | | | | +--ro om4-link-length?                      int32
  | | | | +--ro vendor-name?                          string
  | | | | +--ro vendor-ieee-id?                       string
  | | | | +--ro vendor-part-number?                   string
  | | | | +--ro vendor-revision-number?               string
  | | | | +--ro check-code?                           string
  | | | | +--ro extended-check-code?                  string
  | | | | +--ro nominal-signalling-rate?              int32
  | | | | +--ro maximum-signalling-rate?              int32
  | | | | +--ro minimum-signalling-rate?              int32
  | | | | +--ro vendor-serial-number?                 string
  | | | | +--ro vendor-manufacturing-date?            string
  | | | | +--ro ddm-type?                             ipi-platform-transceiver-types:ddm_cmm_trans_ddm_support_t
  | | | | +--ro maximum-case-temperature?             decimal64
  | | | | +--ro grid-spacing?                         decimal64
  | | | | +--ro first-frequency?                      decimal64
  | | | | +--ro last-frequency?                       decimal64
  | | | | +--ro frequency-error?                      decimal64
  | | | | +--ro frequency-error-critical-min-threshold?  decimal64
  | | | | +--ro frequency-error-critical-max-threshold?  decimal64
  | | | | +--ro frequency-error-alert-min-threshold?     decimal64
  | | | | +--ro frequency-error-alert-max-threshold?     decimal64
  | | | | +--ro wavelength?                           decimal64
  | | | | +--ro wavelength-tolerance?                 decimal64
```

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```
 | | | | +--ro wavelength-error?                       decimal64
 | | | | +--ro wavelength-error-critical-min-threshold?   decimal64
 | | | | +--ro wavelength-error-critical-max-threshold?   decimal64
 | | | | +--ro wavelength-error-alert-min-threshold?      decimal64
 | | | | +--ro wavelength-error-alert-max-threshold?      decimal64
 | | | | +--ro tx-tune-ready?                          boolean
 | | | | +--ro thermoelectric-cooler-fault?              boolean
 | | | | +--ro wavelength-locked?                      boolean
 | | | | +--ro transceiver-temperature?                decimal64
 | | | | +--ro temperature-alert-max-threshold?          decimal64
 | | | | +--ro temperature-critical-max-threshold?       decimal64
 | | | | +--ro temperature-critical-min-threshold?       decimal64
 | | | | +--ro temperature-alert-min-threshold?          decimal64
 | | | | +--ro transceiver-voltage?                    decimal64
 | | | | +--ro voltage-alert-max-threshold?              decimal64
 | | | | +--ro voltage-critical-max-threshold?           decimal64
 | | | | +--ro voltage-critical-min-threshold?           decimal64
 | | | | +--ro voltage-alert-min-threshold?              decimal64
 | | | | +--ro module-functional-type?                 ipi-platform-transceiver-types:cmm_transceiver_functional_type_t
 | | | +--ro sfp
 | | | | +--ro state
 | | | |    +--ro transmit-status?                ipi-platform-transceiver-types:ddm_tx_rx_state_t
 | | | |    +--ro recieve-loss-status?            ipi-platform-transceiver-types:ddm_tx_rx_state_t
 | | | |    +--ro sfp-identifier?                 ipi-platform-transceiver-types:ddm_cmm_trans_sfp_extended_identifier_t
 | | | |    +--ro sfp-options-implemented?        ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_options_implemented_t
 | | | |    +--ro fiber-channel-sfp-speed?        ipi-platform-transceiver-types:ddm_cmm_trans_fiber_channel_speed_t
 | | | |    +--ro sfp-infiniband-compliance-code?   ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_infiniband_compliance_t
 | | | |    +--ro sfp-escon-compliance-code?      ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_escon_compliance_t
 | | | |    +--ro sfp-plus-cable-technology?      ipi-platform-transceiver-types:ddm_cmm_trans_sfp_plus_cable_tech_t
 | | | +--ro xfp
 | | | | +--ro state
 | | | |    +--ro transmit-status?                ipi-platform-transceiver-types:ddm_tx_rx_state_t
 | | | |    +--ro recieve-loss-status?              ipi-platform-transceiver-types:ddm_tx_rx_state_t
 | | | |    +--ro xsfp-identifier?                ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_extended_identifier_t
```


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```
  | | | |    +--ro xfp-10g-ethernet-compliance-code?           ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_10g_eth_compliance_t
  | | | |    +--ro xfp-10g-fiber-channel-compliance-code?      ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_10g_fiber_chn_compliance_t
  | | | |    +--ro xfp-10g-copper-link-compliance-code?        ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_10g_copper_links_rsvd_t
  | | | |    +--ro xfp-lower-speed-link-compliance-code?       ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_lower_speed_links_t
  | | | |    +--ro xfp-sonet-interconnect-compliance-code?     ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_interconnect_t
  | | | |    +--ro xfp-sonet-short-haul-compliance-code?       ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_short_haul_t
  | | | |    +--ro xfp-sonet-long-haul-compliance-code?        ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_long_haul_t
  | | | |    +--ro xfp-sonet-very-long-haul-compliance-code?   ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_sonet_very_long_haul_t
  | | | |    +--ro xfp-serial-encoding-algorithm?              ipi-platform-transceiver-types:ddm_cmm_trans_xfp_encoding_t
  | | | |    +--ro xsfp-options-implemented?                   ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_options_implemented_t
  | | | |    +--ro xfp-auxillary-voltage?                      ipi-platform-transceiver-
types:ddm_cmm_trans_xfp_voltage_aux_monitor_t
  | | | +--ro qsfp
  | | | | +--ro state
  | | | |    +--ro reset-status?              ipi-platform-transceiver-types:ddm_cmm_trans_reset_t
  | | | |    +--ro power?                     ipi-platform-transceiver-types:ddm_cmm_trans_power_t
  | | | |    +--ro lane1-transmission?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane1-transmission-loss?   ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane1-recieve-loss?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane2-transmission?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane2-transmission-loss?   ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane2-recieve-loss?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane3-transmission?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane3-transmission-loss?   ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane3-recieve-loss?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane4-transmission?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane4-transmission-loss?   ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro lane4-recieve-loss?        ipi-platform-transceiver-types:ddm_tx_rx_state_t
  | | | |    +--ro qsfp-identifier?           ipi-platform-transceiver-types:ddm_cmm_qsfp_extended_identifier_t
  | | | |    +--ro fiber-channel-qsfp-speed?  ipi-platform-transceiver-types:ddm_cmm_trans_fiber_channel_speed_t
```

```
 | | | |    +--ro qsfp-options-implemented?   ipi-platform-transceiver-
types:ddm_cmm_trans_qsfp_options_implemented_t
 | | | +--ro channels
 | | | | +--ro channel* [index]
 | | | |    +--ro index    -> ../state/index
 | | | |    +--ro state
 | | | |       +--ro index?                              uint8
 | | | |       +--ro input-power?                        decimal64
 | | | |       +--ro input-power-alert-max-threshold?    decimal64
 | | | |       +--ro input-power-critical-max-threshold? decimal64
 | | | |       +--ro input-power-critical-min-threshold? decimal64
 | | | |       +--ro input-power-alert-min-threshold?    decimal64
 | | | |       +--ro output-power?                       decimal64
 | | | |       +--ro output-power-alert-max-threshold?   decimal64
 | | | |       +--ro output-power-critical-max-threshold? decimal64
 | | | |       +--ro output-power-critical-min-threshold? decimal64
 | | | |       +--ro output-power-alert-min-threshold?   decimal64
 | | | |       +--ro laser-bias-current?                 decimal64
 | | | |       +--ro laser-bias-current-alert-max-threshold?   decimal64
 | | | |       +--ro laser-bias-current-critical-max-threshold? decimal64
 | | | |       +--ro laser-bias-current-critical-min-threshold? decimal64
 | | | |       +--ro laser-bias-current-alert-min-threshold?   decimal64
 | | | +--ro cmis-module
 | | | | +--ro eeprom
 | | | | | +--ro state
 | | | | |    +--ro identifier?                ipi-platform-sff8024-types:cmm_sff8024_identifier_t
 | | | | |    +--ro vendor-name?               string
 | | | | |    +--ro vendor-oui?                string
 | | | | |    +--ro part-number?               string
 | | | | |    +--ro revision-level?            string
 | | | | |    +--ro serial-number?             string
 | | | | |    +--ro manufacturing-date?        string
 | | | | |    +--ro clei-code?                 string
 | | | | |    +--ro module-power-class?        ipi-platform-cmis-types:cmm_cmis_module_power_class_t
 | | | | |    +--ro module-max-power?          decimal64
 | | | | |    +--ro cooling-implemented?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
 | | | | |    +--ro temperature-max?           int16
```


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```
| | | | |    +--ro temperature-min?              int16
| | | | |    +--ro operatin-voltage-min?         decimal64
| | | | |    +--ro optical-detector?             ipi-platform-cmis-types:cmm_cmis_optical_detector_t
| | | | |    +--ro rx-power-measurement?         ipi-platform-cmis-types:cmm_cmis_rx_power_measur_t
| | | | |    +--ro tx-disable-module-wide?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |    +--ro cable-assembly-link-length?   int16
| | | | |    +--ro connector-type?               ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
| | | | |    +--ro cca-5ghz?                     uint8
| | | | |    +--ro cca-7ghz?                     uint8
| | | | |    +--ro cca-12p9ghz?                  uint8
| | | | |    +--ro cca-25p8ghz?                  uint8
| | | | |    +--ro media-interface-technology?   ipi-platform-cmis-types:cmm_cmis_media_intf_tech_t
| | | | |    +--ro cmis-revision?                string
| | | | |    +--ro ccmis-revision?               string
| | | | |    +--ro memory-model?                 ipi-platform-cmis-types:cmm_cmis_memory_model_t
| | | | |    +--ro mci-max-speed?                ipi-platform-cmis-types:cmm_cmis_mci_max_speed_t
| | | | |    +--ro active-firmware-revision?     string
| | | | |    +--ro inactive-firmware-revision?   string
| | | | |    +--ro hardware-revision?            string
| | | | |    +--ro media-type?                   ipi-platform-cmis-types:cmm_cmis_media_type_t
| | | | |    +--ro max-smf-link-length?          decimal64
| | | | |    +--ro max-mmf-om2-link-length?      uint8
| | | | |    +--ro max-mmf-om3-link-length?      uint16
| | | | |    +--ro max-mmf-om4-link-length?      uint16
| | | | |    +--ro max-mmf-om5-link-length?      uint16
| | | | |    +--ro wavelength-nominal?           decimal64
| | | | |    +--ro wavelength-tolerance?         decimal64
| | | | |    +--ro rx-los-detection-type?        ipi-platform-cmis-types:cmm_ccmis_rx_los_type_t
| | | | +--ro advertisement
| | | | |  +--ro applications
| | | | |  |  +--ro application* [id]
| | | | |  |     +--ro id       -> ../state/id
| | | | |  |     +--ro state
| | | | |  |     |  +--ro id?   uint8
| | | | |  |     +--ro host
| | | | |  |     |  +--ro state
```

```
| | | | | |   |    +--ro interface-type?          ipi-platform-cmis-types:cmm_cmis_interface_type_t
| | | | | |   |    +--ro application-bitrate?     ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |   |    +--ro lane-count?              uint8
| | | | | |   |    +--ro signal-bitrate?          ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |   |    +--ro modulation-format?       ipi-platform-cmis-types:cmm_cmis_modulation_format_t
| | | | | |   |    +--ro bits-per-unit-interval?  decimal64
| | | | | |   |    +--ro lane-assignment?         ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | |   |    +--ro host-config?             string
| | | | | |   +--ro media
| | | | | |     +--ro state
| | | | | |       +--ro interface-type?          ipi-platform-cmis-types:cmm_cmis_interface_type_t
| | | | | |       +--ro application-bitrate?     ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |       +--ro lane-count?              uint8
| | | | | |       +--ro signal-bitrate?          ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |       +--ro modulation-format?       ipi-platform-cmis-types:cmm_cmis_modulation_format_t
| | | | | |       +--ro bits-per-unit-interval?  decimal64
| | | | | |       +--ro lane-assignment?         ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | +--ro custom-application
| | | | | +--ro state
| | | | | | +--ro application-selector?  uint8
| | | | | +--ro host-ids
| | | | | | +--ro host-id* [id]
| | | | | |   +--ro id      -> ../state/id
| | | | | |   +--ro state
| | | | | |     +--ro id?                    uint8
| | | | | |     +--ro interface-type?        ipi-platform-cmis-types:cmm_cmis_interface_type_t
| | | | | |     +--ro application-bitrate?   ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |     +--ro lane-count?            uint8
| | | | | |     +--ro signal-bitrate?        ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |     +--ro modulation-format?     ipi-platform-cmis-types:cmm_cmis_modulation_format_t
| | | | | |     +--ro bits-per-unit-interval?  decimal64
| | | | | |     +--ro lane-assignment?       ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | |     +--ro host-config?           string
| | | | | +--ro media-ids
| | | | |   +--ro media-id* [id]
| | | | |     +--ro id      -> ../state/id
```


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```
| | | | | |      +--ro state
| | | | | |        +--ro id?                    uint8
| | | | | |        +--ro interface-type?        ipi-platform-cmis-types:cmm_cmis_interface_type_t
| | | | | |        +--ro application-bitrate?   ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |        +--ro lane-count?            uint8
| | | | | |        +--ro signal-bitrate?        ipi-platform-cmis-types:cmm_cmis_bit_rate_t
| | | | | |        +--ro modulation-format?     ipi-platform-cmis-types:cmm_cmis_modulation_format_t
| | | | | |        +--ro bits-per-unit-interval? decimal64
| | | | | |        +--ro lane-assignment?       ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | +--ro controls
| | | | | | +--ro state
| | | | | |   +--ro wavelength-control?            ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro tunable-transmitter?           ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro tx-output-squelching-method?   ipi-platform-cmis-types:cmm_cmis_tx_squelch_method_t
| | | | | |   +--ro forced-tx-output-squelching?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro tx-output-squelching-disable?  ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro tx-output-disable?             ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro input-polarity-flip-tx?        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro rx-output-squelching-disable?  ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro rx-output-disable?             ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro output-polarity-flip-rx?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro rx-media-fed-pm-implemented?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro rx-media-fdd-pm-implemented?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro tx-host-fed-pm-implemented?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |   +--ro tx-host-fdd-pm-implemented?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | +--ro diagnostics
| | | | | | +--ro module
| | | | | | | +--ro state
| | | | | | |   +--ro simultaneous-host-and-media-loobpack?  ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |   +--ro report-bit-error-ratio?                ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |   +--ro count-bits-and-errors?                 ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |   +--ro media-side-fec-prbs-error?             ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |   +--ro host-side-fec-prbs-error?              ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |   +--ro media-side-input-snr-measurement?      ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |   +--ro host-side-input-snr-measurement?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |   +--ro gating-support?                        ipi-platform-cmis-types:cmm_cmis_yes_no_t
```

```
| | | | | | |    +--ro gating-results?                    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro periodic-updates?                  ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro per-lane-gating-timers?            ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro gating-auto-restart?               ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | +--ro host
| | | | | | | +--ro state
| | | | | | |    +--ro output-loopack?          ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro input-loopack?           ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro per-lane-loopack?        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro report-input-snr?        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro report-fec?              ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro prbs-checker-post-fec?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro prbs-checker-pre-fec?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro prbs-checker-types?      ipi-platform-cmis-types:cmm_cmis_prbs_support_type_t
| | | | | | |    +--ro prbs-generator-post-fec? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro prbs-generator-pre-fec?  ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |    +--ro prbs-generator-types?    ipi-platform-cmis-types:cmm_cmis_prbs_support_type_t
| | | | | | +--ro media
| | | | | |    +--ro state
| | | | | |       +--ro output-loopack?          ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro input-loopack?           ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro per-lane-loopack?        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro report-input-snr?        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro report-fec?              ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro prbs-checker-post-fec?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro prbs-checker-pre-fec?    ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro prbs-checker-types?      ipi-platform-cmis-types:cmm_cmis_prbs_support_type_t
| | | | | |       +--ro prbs-generator-post-fec? ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro prbs-generator-pre-fec?  ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |       +--ro prbs-generator-types?    ipi-platform-cmis-types:cmm_cmis_prbs_support_type_t
| | | | | +--ro durations
| | | | | | +--ro state
| | | | | |    +--ro modsel-wait-time?             uint32
| | | | | |    +--ro dpinit-maximun-duration?      ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro dpdeinit-maximun-duration?    ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro dptxturnon-maximum-duration?  ipi-platform-cmis-types:cmm_cmis_durations_t
```


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```
| | | | | |    +--ro dptxturnoff-maximum-duration?   ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro modulepwrup-maximum-duration?   ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro modulepwrdn-maximum-duration?   ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro npinit-maximum-duration?        ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro npdeinit-maximum-duration?      ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro nptxturnon-maximum-duration?    ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | |    +--ro nptxturnoff-maximum-duration?   ipi-platform-cmis-types:cmm_cmis_durations_t
| | | | | +--ro laser
| | | | | | +--ro state
| | | | | | | +--ro supported-grids?                  ipi-platform-cmis-types:cmm_cmis_laser_grid_support_t
| | | | | | | +--ro fine-tune-supported?              ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | +--ro fine-tune-resolution?             decimal64
| | | | | | | +--ro fine-tune-low-offset?             decimal64
| | | | | | | +--ro fine-tune-high-offset?            decimal64
| | | | | | | +--ro per-lane-programmable-output-power?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | +--ro minimum-programmable-output-power?    decimal64
| | | | | | | +--ro maximum-programmable-output-power?    decimal64
| | | | | | +--ro grids
| | | | | |    +--ro grid* [id]
| | | | | |       +--ro id      -> ../state/id
| | | | | |       +--ro state
| | | | | |          +--ro id?                      ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
| | | | | |          +--ro lowest-channel-frequency?    decimal64
| | | | | |          +--ro highest-channel-frequency?   decimal64
| | | | | |          +--ro channel-count?               uint16
| | | | | +--ro monitoring
| | | | | | +--ro module
| | | | | | | +--ro monitors
| | | | | | |    +--ro monitor* [id]
| | | | | | |       +--ro id      -> ../state/id
| | | | | | |       +--ro state
| | | | | | |          +--ro id?         ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
| | | | | | |          +--ro supported?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | +--ro host
| | | | | | | +--ro monitors
| | | | | | | | +--ro monitor* [id]
```

```
| | | | | | | |    +--ro id       -> ../state/id
| | | | | | | |    +--ro state
| | | | | | | |      +--ro id?              ipi-platform-cmis-types:cmm_cmis_host_monitor_id_t
| | | | | | | |      +--ro supported?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | | |      +--ro lanes-assigned?  ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | | | +--ro flags
| | | | | | |    +--ro flag* [id]
| | | | | | |      +--ro id       -> ../state/id
| | | | | | |      +--ro state
| | | | | | |        +--ro id?              ipi-platform-cmis-types:cmm_cmis_host_flag_id_t
| | | | | | |        +--ro supported?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | | |        +--ro lanes-assigned?  ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | | +--ro media
| | | | | |    +--ro monitors
| | | | | |    | +--ro monitor* [id]
| | | | | |    |    +--ro id       -> ../state/id
| | | | | |    |    +--ro state
| | | | | |    |      +--ro id?              ipi-platform-cmis-types:cmm_cmis_media_monitor_id_t
| | | | | |    |      +--ro supported?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |    |      +--ro lanes-assigned?  ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | |    +--ro flags
| | | | | |      +--ro flag* [id]
| | | | | |        +--ro id       -> ../state/id
| | | | | |        +--ro state
| | | | | |          +--ro id?              ipi-platform-cmis-types:cmm_cmis_media_flag_id_t
| | | | | |          +--ro supported?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | | |          +--ro lanes-assigned?  ipi-platform-cmis-types:cmm_cmis_lane_assignment_t
| | | | | +--ro pages
| | | | | +--ro state
| | | | |    +--ro network-path-pages-supported?  ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |    +--ro vdm-pages-supported?           ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |    +--ro vdm-groups?                    ipi-platform-cmis-types:cmm_cmis_vdm_pages_support_t
| | | | |    +--ro diagnostics-pages-supported?   ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |    +--ro user-page-supported?           ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |    +--ro banks-per-page?                ipi-platform-cmis-types:cmm_cmis_bank_per_page_support_t
| | | | +--ro signal-integrity
```


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```
| | | | |    +--ro state
| | | | |      +--ro tx-input-manual-eq?            ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |      +--ro tx-input-eq-max?               uint8
| | | | |      +--ro rx-output-eq-pre-cursor?       ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |      +--ro rx-output-eq-pre-cursor-max?   uint8
| | | | |      +--ro rx-output-eq-post-cursor?      ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |      +--ro rx-output-eq-post-cursor-max?  uint8
| | | | |      +--ro rx-output-amp?                 ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |      +--ro rx-output-amp-codes?           ipi-platform-cmis-types:cmm_cmis_si_amp_codes_t
| | | | |      +--ro tx-cdr?                        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |      +--ro tx-cdr-bypass?                 ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |      +--ro rx-cdr?                        ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | |      +--ro rx-cdr-bypass?                 ipi-platform-cmis-types:cmm_cmis_yes_no_t
| | | | +--ro module-state
| | | | | +--ro state
| | | | | | +--ro fault-state?     ipi-platform-cmis-types:cmm_cmis_module_fault_state_t
| | | | | | +--ro current-state?   ipi-platform-cmis-types:cmm_cmis_module_state_t
| | | | | +--ro datapaths
| | | | |    +--ro datapath* [lane]
| | | | |      +--ro lane     -> ../state/lane
| | | | |      +--ro state
| | | | |        +--ro lane?            uint8
| | | | |        +--ro current-state?   ipi-platform-cmis-types:cmm_cmis_datapath_states_t
| | | | |        +--ro host-rate?       decimal64
| | | | |        +--ro media-rate?      decimal64
| | | | |        +--ro interface-name?  string
| | | | +--ro module-monitors
| | | | | +--ro monitors
| | | | | | +--ro monitor* [id]
| | | | | |    +--ro id       -> ../state/id
| | | | | |    +--ro state
| | | | | |      +--ro id?            ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
| | | | | |      +--ro description?   string
| | | | | |      +--ro value?         decimal64
| | | | | |      +--ro high-alarm?    decimal64
| | | | | |      +--ro high-warning?  decimal64
```

```
| | | | | |       +--ro low-warning?    decimal64
| | | | | |       +--ro low-alarm?      decimal64
| | | | | +--ro monitor-alarm
| | | | |    +--ro state
| | | | |       +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
| | | | |       +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
| | | | |       +--ro current-value?      decimal64
| | | | |       +--ro threshold-minimum?  decimal64
| | | | |       +--ro threshold-maximum?  decimal64
| | | | +--ro host-monitors
| | | | | +--ro lanes
| | | | |    +--ro lane* [number]
| | | | |       +--ro number          -> ../state/number
| | | | |       +--ro state
| | | | |       |  +--ro number?       uint8
| | | | |       |  +--ro dp-assigned?  boolean
| | | | |       +--ro monitors
| | | | |       |  +--ro monitor* [id]
| | | | |       |     +--ro id       -> ../state/id
| | | | |       |     +--ro state
| | | | |       |        +--ro id?           ipi-platform-cmis-types:cmm_cmis_host_monitor_id_t
| | | | |       |        +--ro description?  string
| | | | |       |        +--ro value?        decimal64
| | | | |       |        +--ro high-alarm?   decimal64
| | | | |       |        +--ro high-warning? decimal64
| | | | |       |        +--ro low-warning?  decimal64
| | | | |       |        +--ro low-alarm?    decimal64
| | | | |       +--ro flags
| | | | |       |  +--ro flag* [id]
| | | | |       |     +--ro id       -> ../state/id
| | | | |       |     +--ro state
| | | | |       |        +--ro id?           ipi-platform-cmis-types:cmm_cmis_host_flag_id_t
| | | | |       |        +--ro description?  string
| | | | |       |        +--ro value?        boolean
| | | | |       +--ro monitor-alarm
| | | | |       |  +--ro state
```


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```
| | | | |       |    +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_host_monitor_id_t
| | | | |       |    +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
| | | | |       |    +--ro current-value?      decimal64
| | | | |       |    +--ro threshold-minimum?  decimal64
| | | | |       |    +--ro threshold-maximum?  decimal64
| | | | |       +--ro flag-alarm
| | | | |         +--ro state
| | | | |           +--ro alarm-id?  ipi-platform-cmis-types:cmm_cmis_host_flag_id_t
| | | | +--ro media-monitors
| | | | | +--ro lanes
| | | | |   +--ro lane* [number]
| | | | |     +--ro number          -> ../state/number
| | | | |     +--ro state
| | | | |     | +--ro number?  uint8
| | | | |     +--ro monitors
| | | | |     | +--ro monitor* [id]
| | | | |     |    +--ro id      -> ../state/id
| | | | |     |    +--ro state
| | | | |     |      +--ro id?           ipi-platform-cmis-types:cmm_cmis_media_monitor_id_t
| | | | |     |      +--ro description?  string
| | | | |     |      +--ro value?        decimal64
| | | | |     |      +--ro high-alarm?   decimal64
| | | | |     |      +--ro high-warning? decimal64
| | | | |     |      +--ro low-warning?  decimal64
| | | | |     |      +--ro low-alarm?    decimal64
| | | | |     +--ro flags
| | | | |     | +--ro flag* [id]
| | | | |     |    +--ro id      -> ../state/id
| | | | |     |    +--ro state
| | | | |     |      +--ro id?           ipi-platform-cmis-types:cmm_cmis_media_flag_id_t
| | | | |     |      +--ro description?  string
| | | | |     |      +--ro value?        boolean
| | | | |     +--ro monitor-alarm
| | | | |     | +--ro state
| | | | |     |    +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_media_monitor_id_t
| | | | |     |    +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
```

```
| | | | |       |    +--ro current-value?       decimal64
| | | | |       |    +--ro threshold-minimum?   decimal64
| | | | |       |    +--ro threshold-maximum?   decimal64
| | | | |       +--ro flag-alarm
| | | | |         +--ro state
| | | | |           +--ro alarm-id?   ipi-platform-cmis-types:cmm_cmis_media_flag_id_t
| | | | +--ro user-thresholds
| | | | | +--ro host
| | | | | | +--ro lanes
| | | | | |    +--ro lane* [number]
| | | | | |      +--ro number       -> ../state/number
| | | | | |      +--ro state
| | | | | |      | +--ro number?   uint8
| | | | | |      +--ro thresholds
| | | | | |        +--ro threshold* [id]
| | | | | |          +--ro id       -> ../state/id
| | | | | |          +--ro state
| | | | | |            +--ro id?       ipi-platform-cmis-types:cmm_ccmis_thres_state_host_id_t
| | | | | |            +--ro value?    decimal64
| | | | | |            +--ro minimum?   decimal64
| | | | | |            +--ro maximum?   decimal64
| | | | | |            +--ro active?    boolean
| | | | | +--ro media
| | | | |    +--ro lanes
| | | | |      +--ro lane* [number]
| | | | |        +--ro number       -> ../state/number
| | | | |        +--ro state
| | | | |        | +--ro number?   uint8
| | | | |        +--ro thresholds
| | | | |          +--ro threshold* [id]
| | | | |            +--ro id       -> ../state/id
| | | | |            +--ro state
| | | | |              +--ro id?       ipi-platform-cmis-types:cmm_ccmis_thres_state_media_id_t
| | | | |              +--ro value?    decimal64
| | | | |              +--ro minimum?   decimal64
| | | | |              +--ro maximum?   decimal64
```


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```
| | | | |                +--ro active?    boolean
| | | | +--ro signal-integrity
| | | | | +--ro host
| | | | |    +--ro lanes
| | | | |       +--ro lane* [number]
| | | | |          +--ro number    -> ../state/number
| | | | |          +--ro state
| | | | |             +--ro number?                              uint8
| | | | |             +--ro tx-input-equalizer-target?           uint8
| | | | |             +--ro rx-output-equalizer-pre-cursor-target?    uint8
| | | | |             +--ro rx-output-equalizer-post-cursor-target?   uint8
| | | | |             +--ro rx-output-amplitude-target?          uint8
| | | | |             +--ro tx-cdr-bypass?                       boolean
| | | | |             +--ro rx-cdr-bypass?                       boolean
| | | | +--ro laser-status
| | | |    +--ro media
| | | |       +--ro lanes
| | | |          +--ro lane* [number]
| | | |             +--ro number    -> ../state/number
| | | |             +--ro state
| | | |                +--ro number?           uint8
| | | |                +--ro laser-frequency?   decimal64
| | | |                +--ro wavelength?        decimal64
| | | +--ro tibit-olt-microplug
| | |    +--ro state
| | |    | +--ro interface-name?                -> /ipi-interface:interfaces/interface/name
| | |    | +--ro warranty-seal?                 ipi-platform-transceiver-tibit-types:trans_tibit_cmm_warranty_seal_t
| | |    | +--ro operational-management?        ipi-platform-transceiver-tibit-types:trans_tibit_cmm_oper_mode_t
| | |    | +--ro pon-mode?                      ipi-platform-transceiver-tibit-types:trans_tibit_cmm_pon_mode_t
| | |    | +--ro active-firmware-bank-id?       uint8
| | |    | +--ro next-active-firmware-bank-id?    uint8
| | |    | +--ro management-vlan-tpid?           string
| | |    | +--ro management-vlan-id?             uint16
| | |    | +--ro pon-mac-address?                string
| | |    | +--ro ethernet-mac-address?           string
| | |    | +--ro pon-port-administrative-state?   ipi-platform-transceiver-tibit-types:trans_tibit_cmm_pon_status_t
```

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```
| | |    | +--ro pon-port-operational-status?     ipi-platform-transceiver-tibit-types:trans_tibit_cmm_pon_status_t
| | |    | +--ro pon-link-count?                  uint16
| | |    +--ro firmware-banks
| | |      +--ro bank* [bank-id]
| | |        +--ro bank-id    -> ../state/bank-id
| | |        +--ro state
| | |          +--ro bank-id?              uint8
| | |          +--ro release-type?         string
| | |          +--ro major-version?        uint8
| | |          +--ro minor-version?        uint8
| | |          +--ro maintenance-version?  uint8
| | |          +--ro suffix-build-tag?     ipi-platform-transceiver-tibit-types:trans_tibit_cmm_string_t
| | |          +--ro suffix-build-number?  uint16
| | |          +--ro build-sha?            ipi-platform-transceiver-tibit-types:trans_tibit_cmm_string_t
| | |          +--ro application-type?     ipi-platform-transceiver-tibit-types:trans_tibit_cmm_application_type_t
| | |          +--ro created-timestamp?    yang:date-and-time
| | |          +--ro updated-timestamp?    yang:date-and-time
| | +--ro power-supply
| | | +--ro state
| | |    +--ro operational-status?            cml_cmm_power_supply_operstatus_t
| | |    +--ro hot-swap-state?                ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro capacity?                      decimal64
| | |    +--ro power-consumption?             decimal64
| | |    +--ro input-power?                   decimal64
| | |    +--ro input-voltage?                 decimal64
| | |    +--ro output-voltage?                decimal64
| | |    +--ro input-current?                 decimal64
| | |    +--ro output-current?                decimal64
| | |    +--ro temperature-sensor1?           decimal64
| | |    +--ro temperature-sensor2?           decimal64
| | |    +--ro temperature-sensor3?           decimal64
| | |    +--ro temperature-sensor4?           decimal64
| | |    +--ro fan1-rpm?                      uint32
| | |    +--ro fan2-rpm?                      uint32
| | |    +--ro fan3-rpm?                      uint32
| | |    +--ro fan4-rpm?                      uint32
```


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```
| | |    +--ro input-power-status?             ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro output-power-status?            ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro supported-parameters?             cml_cmm_psu_pmbus_param_support_t
| | |    +--ro vin-alert-threshold-min?        decimal64
| | |    +--ro vin-alert-threshold-max?         decimal64
| | |    +--ro vin-critical-threshold-min?     decimal64
| | |    +--ro vin-critical-threshold-max?      decimal64
| | |    +--ro vout-alert-threshold-min?        decimal64
| | |    +--ro vout-alert-threshold-max?         decimal64
| | |    +--ro vout-critical-threshold-min?     decimal64
| | |    +--ro vout-critical-threshold-max?      decimal64
| | |    +--ro pout-alert-threshold-min?        decimal64
| | |    +--ro pout-alert-threshold-max?         decimal64
| | |    +--ro pout-critical-threshold-min?     decimal64
| | |    +--ro pout-critical-threshold-max?      decimal64
| | |    +--ro pin-alert-threshold-min?         decimal64
| | |    +--ro pin-alert-threshold-max?          decimal64
| | |    +--ro pin-critical-threshold-min?      decimal64
| | |    +--ro pin-critical-threshold-max?       decimal64
| | |    +--ro iin-alert-threshold-min?         decimal64
| | |    +--ro iin-alert-threshold-max?          decimal64
| | |    +--ro iin-critical-threshold-min?      decimal64
| | |    +--ro iin-critical-threshold-max?       decimal64
| | |    +--ro iout-alert-threshold-min?         decimal64
| | |    +--ro iout-alert-threshold-max?          decimal64
| | |    +--ro iout-critical-threshold-min?      decimal64
| | |    +--ro iout-critical-threshold-max?       decimal64
| | |    +--ro temp1-alert-threshold-min?        decimal64
| | |    +--ro temp1-alert-threshold-max?         decimal64
| | |    +--ro temp1-critical-threshold-min?     decimal64
| | |    +--ro temp1-critical-threshold-max?      decimal64
| | |    +--ro temp2-alert-threshold-min?        decimal64
| | |    +--ro temp2-alert-threshold-max?         decimal64
| | |    +--ro temp2-critical-threshold-min?     decimal64
| | |    +--ro temp2-critical-threshold-max?      decimal64
| | |    +--ro temp3-alert-threshold-min?        decimal64
```

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```
| | |    +--ro temp3-alert-threshold-max?       decimal64
| | |    +--ro temp3-critical-threshold-min?    decimal64
| | |    +--ro temp3-critical-threshold-max?    decimal64
| | |    +--ro temp4-alert-threshold-min?       decimal64
| | |    +--ro temp4-alert-threshold-max?       decimal64
| | |    +--ro temp4-critical-threshold-min?    decimal64
| | |    +--ro temp4-critical-threshold-max?    decimal64
| | |    +--ro vin-hw-shut-max-threshold?       decimal64
| | |    +--ro vin-hw-shut-min-threshold?       decimal64
| | |    +--ro vin-hw-resume_max_threshold?     decimal64
| | |    +--ro vin-hw-resume_min_threshold?     decimal64
| | |    +--ro vout-hw-shut-max-threshold?      decimal64
| | |    +--ro vout-hw-shut-min-threshold?      decimal64
| | |    +--ro vout-hw-resume_max_threshold?    decimal64
| | |    +--ro vout-hw-resume_min_threshold?    decimal64
| | |    +--ro pin-hw-shut-max-threshold?       decimal64
| | |    +--ro pin-hw-shut-min-threshold?       decimal64
| | |    +--ro pin-hw-resume_max_threshold?     decimal64
| | |    +--ro pin-hw-resume_min_threshold?     decimal64
| | |    +--ro pout-hw-shut-max-threshold?      decimal64
| | |    +--ro pout-hw-shut-min-threshold?      decimal64
| | |    +--ro pout-hw-resume_max_threshold?    decimal64
| | |    +--ro pout-hw-resume_min_threshold?    decimal64
| | |    +--ro iin-hw-shut-max-threshold?       decimal64
| | |    +--ro iin-hw-shut-min-threshold?       decimal64
| | |    +--ro iin-hw-resume_max_threshold?     decimal64
| | |    +--ro iin-hw-resume_min_threshold?     decimal64
| | |    +--ro iout-hw-shut-max-threshold?      decimal64
| | |    +--ro iout-hw-shut-min-threshold?      decimal64
| | |    +--ro iout-hw-resume_max_threshold?    decimal64
| | |    +--ro iout-hw-resume_min_threshold?    decimal64
| | |    +--ro temp1-hw-shut-max-threshold?     decimal64
| | |    +--ro temp1-hw-shut-min-threshold?     decimal64
| | |    +--ro temp1-hw-resume_max_threshold?   decimal64
| | |    +--ro temp1-hw-resume_min_threshold?   decimal64
| | |    +--ro temp2-hw-shut-max-threshold?     decimal64
```


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```
| | |    +--ro temp2-hw-shut-min-threshold?     decimal64
| | |    +--ro temp2-hw-resume_max_threshold?   decimal64
| | |    +--ro temp2-hw-resume_min_threshold?   decimal64
| | |    +--ro temp3-hw-shut-max-threshold?     decimal64
| | |    +--ro temp3-hw-shut-min-threshold?     decimal64
| | |    +--ro temp3-hw-resume_max_threshold?   decimal64
| | |    +--ro temp3-hw-resume_min_threshold?   decimal64
| | |    +--ro temp4-hw-shut-max-threshold?     decimal64
| | |    +--ro temp4-hw-shut-min-threshold?     decimal64
| | |    +--ro temp4-hw-resume_max_threshold?   decimal64
| | |    +--ro temp4-hw-resume_min_threshold?   decimal64
| | +--ro fan
| | | +--ro state
| | |    +--ro fan-index?      uint8
| | |    +--ro rpm?            uint32
| | |    +--ro minimum-rpm?    uint32
| | |    +--ro maximum-rpm?    uint32
| | |    +--ro fan-status?     cml_cmm_fan_status_t
| | |    +--ro fan-location?   cml_cmm_fan_location_t
| | +--ro fan-tray
| | | +--ro state
| | |    +--ro tray-number?   uint8
| | |    +--ro status?        cml_cmm_fan_tray_status_t
| | |    +--ro led-color?     cml_cmm_led_color_code_t
| | |    +--ro fan-count?     uint32
| | +--ro chassis
| | | +--ro state
| | |    +--ro up-time?                       yang:timeticks
| | |    +--ro mac-address?                   yang:mac-address
| | |    +--ro label-revision?                string
| | |    +--ro country-code?                  string
| | |    +--ro fan-tray-count?                uint32
| | |    +--ro power-supplies-count?          uint32
| | |    +--ro chassis-fast-ethernet-count?   uint32
| | |    +--ro chassis-1g-ethernet-count?     uint32
| | |    +--ro chassis-10g-ethernet-count?    uint32
```

```
| | |    +--ro chassis-25g-ethernet-count?       uint32
| | |    +--ro chassis-40g-ethernet-count?       uint32
| | |    +--ro chassis-50g-ethernet-count?       uint32
| | |    +--ro chassis-100g-ethernet-count?      uint32
| | |    +--ro chassis-400g-ethernet-count?      uint32
| | |    +--ro service-tag?                      string
| | |    +--ro platform-name?                    string
| | |    +--ro onie-version?                     string
| | |    +--ro vendor-name?                      string
| | |    +--ro diagnostic-version?               string
| | |    +--ro cyclic-redundancy-32bit-value?    string
| | |    +--ro switch-chip-revision?             string
| | |    +--ro fan-board-id?                     string
| | |    +--ro supported-label-revision?         string
| | |    +--ro supported-switch-chip-revision?   string
| | |    +--ro system_status?                    ipi-platform-types:platform_system_status_type_t
| | |    +--ro cpu_status?                       ipi-platform-types:platform_system_status_type_t
| | |    +--ro ram_status?                       ipi-platform-types:platform_system_status_type_t
| | |    +--ro storage_status?                   ipi-platform-types:platform_system_status_type_t
| | |    +--ro temperature_status?               ipi-platform-types:platform_system_status_type_t
| | |    +--ro fan_status?                       ipi-platform-types:platform_system_status_type_t
| | |    +--ro psu_status?                       ipi-platform-types:platform_system_status_type_t
| | |    +--ro software_status?                  ipi-platform-types:platform_system_status_type_t
| | +--ro linecard
| | | +--ro state
| | |    +--ro slot-id?   string
| | +--ro power-rail
| | | +--ro state
| | |    +--ro power-vddr-status?                ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-core-status?                ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v1p1-power-rail?                  ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro main-board-power-rail?            ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vcc-5v-power-status?              ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vcc-3v-power-status?              ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vcc-1v-mac-power-status?          ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vcc-1v-mac-avs-power-status?      ipi-platform-types:cml_cmm_power_rail_t
```


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```
| | |    +--ro vccv1p05-power-status?             ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vccv1p5-power-status?              ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vccv1p8-power-status?              ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v1p05-power-rail?                  ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vcc-power-rail?                    ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro sbv1p5-power-rail?                 ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v1p0-power-rail?                   ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v1p5-power-rail?                   ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v3p3-power-rail?                   ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v1p8-power-rail?                   ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v1p9-power-rail?                   ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v1p35-power-rail?                  ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vcc-avs-1v-power-status?           ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro ddrvtt-power-status?               ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro vcc-mac-v1p25-power-status?        ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro mac-v1p8-power-status?             ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-1-power-status?       ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-2-power-status?       ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-1-power-rail?         ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-2-power-rail?         ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-1-v12-power-rail?     ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-2-v12-power-rail?     ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-1-ac-alert-power-rail?  ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-supply-2-ac-alert-power-rail?  ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro power-vccp-status?                 ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v5a-power-rail?                    ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro v3p3a-power-rail?                  ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro hot-swap-1-power-rail?             ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro hot-swap-2-power-rail?             ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro xp0r-v75-power-rail?               ipi-platform-types:cml_cmm_power_rail_t
| | |    +--ro xp1r-v07-cp-power-rail?            ipi-platform-types:cml_cmm_power_rail_t
| | +--ro ceragon
| | | +--ro cpld-attr
| | | | +--ro state
| | | |    +--ro usb-over-current-status?      uint8
| | | |    +--ro loss-of-input-clock-status?   uint8
```

```
| | | +--ro poe
| | |    +--ro state
| | |       +--ro port-index?   uint8
| | |       +--ro port-name?    string
| | |       +--ro port-state?   ipi-platform-ceragon-types:cmm_poe_port_status_t
| | +--ro edfas
| | | +--ro edfa* [port]
| | |    +--ro port            -> ../state/port
| | |    +--ro state
| | |    | +--ro port?   uint8
| | |    +--ro monitors
| | |    | +--ro monitor* [id]
| | |    |    +--ro id       -> ../state/id
| | |    |    +--ro state
| | |    |       +--ro id?            ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
| | |    |       +--ro description?    string
| | |    |       +--ro value?          decimal64
| | |    |       +--ro high-alarm?     decimal64
| | |    |       +--ro high-warning?   decimal64
| | |    |       +--ro low-warning?    decimal64
| | |    |       +--ro low-alarm?      decimal64
| | |    +--ro monitor-alarm
| | |       +--ro state
| | |          +--ro alarm-id?           ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
| | |          +--ro alarm-type?         ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
| | |          +--ro current-value?      decimal64
| | |          +--ro threshold-minimum?   decimal64
| | |          +--ro threshold-maximum?   decimal64
| | +--ro remote-sfps
| |    +--ro remote-sfp* [port]
| |       +--ro port            -> ../state/port
| |       +--ro state
| |       | +--ro port?   uint8
| |       +--ro eeprom
| |       | +--ro state
| |       |    +--ro identifier?                        ipi-platform-transceiver-types:ddm_cmm_trans_identifier_t
```


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```
  | |       |    +--ro sfp-extended-identifier?               ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_extended_identifier_t
  | |       |    +--ro connector-type?                        ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
  | |       |    +--ro ethernet-compliance-code?              ipi-platform-transceiver-
types:ddm_cmm_trans_eth_compliance_t
  | |       |    +--ro extended-ethernet-compliance-code?     ipi-platform-transceiver-
types:ddm_cmm_trans_ext_eth_compliance_t
  | |       |    +--ro sonet-compliance-code?                 ipi-platform-transceiver-
types:ddm_cmm_trans_sonet_compliance_t
  | |       |    +--ro fiber-channel-link-length?             ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_linklen_t
  | |       |    +--ro fiber-channel-transmission-technology? ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmittech_t
  | |       |    +--ro fiber-channel-transmission-media?      ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_transmitmedia_t
  | |       |    +--ro fiber-channel-sfp-speed?               ipi-platform-transceiver-
types:ddm_cmm_trans_fiber_channel_speed_t
  | |       |    +--ro sfp-infiniband-compliance-code?        ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_infiniband_compliance_t
  | |       |    +--ro sfp-escon-compliance-code?             ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_escon_compliance_t
  | |       |    +--ro sfp-plus-cable-technology?             ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_plus_cable_tech_t
  | |       |    +--ro serial-encoding-algorithm?             ipi-platform-transceiver-types:ddm_cmm_trans_encoding_t
  | |       |    +--ro link-length-kilometer?                 int32
  | |       |    +--ro link-length-meter?                     int32
  | |       |    +--ro om1-link-length?                       int32
  | |       |    +--ro om2-link-length?                       int32
  | |       |    +--ro om3-link-length?                       int32
  | |       |    +--ro om4-link-length?                       int32
  | |       |    +--ro vendor-name?                           string
  | |       |    +--ro vendor-ieee-id?                        string
  | |       |    +--ro vendor-part-number?                    string
  | |       |    +--ro vendor-revision-number?                string
  | |       |    +--ro check-code?                            string
  | |       |    +--ro extended-check-code?                   string
  | |       |    +--ro nominal-signalling-rate?               int32
  | |       |    +--ro maximum-signalling-rate?               int32
  | |       |    +--ro minimum-signalling-rate?               int32
  | |       |    +--ro vendor-serial-number?                  string
```

```
  | |       |    +--ro vendor-manufacturing-date?              string
  | |       |    +--ro ddm-type?                              ipi-platform-transceiver-types:ddm_cmm_trans_ddm_support_t
  | |       |    +--ro maximum-case-temperature?              decimal64
  | |       |    +--ro sfp-options-implemented?               ipi-platform-transceiver-
types:ddm_cmm_trans_sfp_options_implemented_t
  | |       +--ro monitors
  | |       |  +--ro monitor* [id]
  | |       |    +--ro id       -> ../state/id
  | |       |    +--ro state
  | |       |      +--ro id?            ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
  | |       |      +--ro description?   string
  | |       |      +--ro value?         decimal64
  | |       |      +--ro high-alarm?    decimal64
  | |       |      +--ro high-warning?  decimal64
  | |       |      +--ro low-warning?   decimal64
  | |       |      +--ro low-alarm?     decimal64
  | |       +--ro monitor-alarm
  | |       |  +--ro state
  | |       |    +--ro alarm-id?          ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
  | |       |    +--ro alarm-type?        ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
  | |       |    +--ro current-value?     decimal64
  | |       |    +--ro threshold-minimum? decimal64
  | |       |    +--ro threshold-maximum? decimal64
  | |       +--ro protocol
  | |         +--ro state
  | |         |  +--ro protocol-running-state?  ipi-platform-transceiver-types:cmm_smart_sfp_protocol_running_state_t
  | |         |  +--ro protocol-local-status?   ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
  | |         |  +--ro protocol-remote-status?  ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
  | |         |  +--ro packets-rx?              int32
  | |         |  +--ro packets-tx?              int32
  | |         |  +--ro packets-error?           int32
  | |         +--ro alarm
  | |           +--ro state
  | |             +--ro alarm-id?        ipi-platform-transceiver-types:cmm_smart_sfp_protocol_alarm_id_t
  | |             +--ro current-status?  ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
  |  +--rw debug
  | |  +--rw config
```


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```
  | | | +--rw enable-cmm?   empty
  | | | +--rw enable-ddm?   empty {feature-list:NOT_HAVE_TIBIT}?
  | | +--ro state
  | |    +--ro enable-cmm?                 empty
  | |    +--ro enable-ddm?                 empty {feature-list:NOT_HAVE_TIBIT}?
  | |    +--ro terminal-debug-status-cmm?   cml-data-types:cml_on_off_t
  | |    +--ro terminal-debug-status-ddm?   cml-data-types:cml_on_off_t {feature-list:NOT_HAVE_TIBIT}?
  | +--rw global
  | | +--rw config
  | | | +--rw warning-repeat?                  empty
  | | | +--rw locator-led-enable?              empty {feature-list:NOT_HAVE_TIBIT}?
  | | | +--rw ddm-monitor-time-interval?       uint16 {feature-list:NOT_HAVE_TIBIT}?
  | | | +--rw cpu-core-usage-monitor-interval?   uint16 {feature-list:NOT_HAVE_TIBIT}?
  | | | +--rw enable-ddm-monitor?              empty {feature-list:NOT_HAVE_TIBIT}?
  | | | +--rw gps-satellite?                   ipi-platform-types:gps_satellite_system_t {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
  | | +--ro state
  | | | +--ro warning-repeat?                  empty
  | | | +--ro locator-led-enable?              empty {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro ddm-monitor-time-interval?       uint16 {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro cpu-core-usage-monitor-interval?   uint16 {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro enable-ddm-monitor?              empty {feature-list:NOT_HAVE_TIBIT}?
  | | | +--ro gps-satellite?                   ipi-platform-types:gps_satellite_system_t {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
  | | +--rw system-load-average-thresholds
  | | | +--rw system-load-average-threshold* [system-1min-load-avg-warning-threshold system-1min-load-avg-alarm
system-5min-load-avg-alarm system-15min-load-avg-alarm]
  | | |    +--rw system-1min-load-avg-warning-threshold    -> ../config/system-1min-load-avg-warning-threshold
  | | |    +--rw system-1min-load-avg-alarm               -> ../config/system-1min-load-avg-alarm
  | | |    +--rw system-5min-load-avg-alarm               -> ../config/system-5min-load-avg-alarm
  | | |    +--rw system-15min-load-avg-alarm              -> ../config/system-15min-load-avg-alarm
  | | |    +--rw config
  | | |    |  +--rw system-1min-load-avg-warning-threshold?   uint8
  | | |    |  +--rw system-1min-load-avg-alarm?              uint8
  | | |    |  +--rw system-5min-load-avg-alarm?              uint8
  | | |    |  +--rw system-15min-load-avg-alarm?             uint8
  | | |    +--ro state
```

```
| | |       +--ro system-1min-load-avg-warning-threshold?   uint8
| | |       +--ro system-1min-load-avg-alarm?               uint8
| | |       +--ro system-5min-load-avg-alarm?               uint8
| | |       +--ro system-15min-load-avg-alarm?              uint8
| | +--rw cpu-core-usage-thresholds
| | | +--rw cpu-core-usage-threshold* [warning-threshold alarm-threshold]
| | |    +--rw warning-threshold    -> ../config/warning-threshold
| | |    +--rw alarm-threshold      -> ../config/alarm-threshold
| | |    +--rw config
| | |    | +--rw warning-threshold?   uint8
| | |    | +--rw alarm-threshold?     uint8
| | |    +--ro state
| | |       +--ro warning-threshold?   uint8
| | |       +--ro alarm-threshold?     uint8
| | +--rw gps-position {feature-list:HAVE_PTP_HW_OFFLOAD}?
| | | +--rw config
| | | | +--rw (gps-position-option)?
| | | |    +--:(gps-position-disable)
| | | |    | +--rw gps-position-disable?              empty
| | | |    +--:(gps-survey-in-observation-time)
| | | |    | +--rw gps-survey-in-observation-time?    uint32
| | | |    | +--rw gps-survey-in-position-accuracy?   uint32
| | | |    +--:(gps-fixed-latitude)
| | | |       +--rw gps-fixed-latitude?               decimal64
| | | |       +--rw gps-fixed-longitude?              decimal64
| | | |       +--rw gps-fixed-altitude?               decimal64
| | | +--ro state
| | |    +--ro (gps-position-option)?
| | |       +--:(gps-position-disable)
| | |       | +--ro gps-position-disable?              empty
| | |       +--:(gps-survey-in-observation-time)
| | |       | +--ro gps-survey-in-observation-time?    uint32
| | |       | +--ro gps-survey-in-position-accuracy?   uint32
| | |       +--:(gps-fixed-latitude)
| | |          +--ro gps-fixed-latitude?               decimal64
| | |          +--ro gps-fixed-longitude?              decimal64
```


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```
| | |         +--ro gps-fixed-altitude?              decimal64
| | +--ro gps {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| | | +--ro gnss-status
| | | | +--ro state
| | | |    +--ro gnss-fix?    string
| | | |    +--ro latitude?    string
| | | |    +--ro longitude?   string
| | | |    +--ro altitude?    string
| | | +--ro gnss-satellites-status
| | | | +--ro gnss-satellite-status* [sat-index]
| | | |    +--ro sat-index    -> ../state/sat-index
| | | |    +--ro state
| | | |       +--ro sat-index?   uint8
| | | |       +--ro type?        string
| | | |       +--ro prn?         string
| | | |       +--ro snr?         string
| | | |       +--ro status?      ipi-platform-types:cml_gps_gnss_status_t
| | | |       +--ro azimuth?     string
| | | |       +--ro elevation?   string
| | | +--ro gnss-survey-in-status
| | | | +--ro state
| | | |    +--ro min-duration?   string
| | | |    +--ro accuracy?       string
| | | |    +--ro is-valid?       boolean
| | | |    +--ro is-active?      boolean
| | | |    +--ro duration?       string
| | | |    +--ro variance?       string
| | | +--ro gnss-fix-position-status
| | |    +--ro state
| | |       +--ro latitude?    string
| | |       +--ro longitude?   string
| | |       +--ro altitude?    string
| | +--ro dpll {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
| |    +--ro dpll-status
| |    | +--ro state
| |    |    +--ro dpll-output-1pps-squelch?     ipi-platform-types:cml_dpll_output_t
```

```
| |    |    +--ro dpll-output-10mhz-squelch?    ipi-platform-types:cml_dpll_output_t
| |    |    +--ro dpll-input-frequency-alarm?   ipi-platform-types:cml_dpll_output_t
| |    +--ro dpll-entries-status
| |      +--ro dpll-entry-status* [dpll-index]
| |        +--ro dpll-index    -> ../state/dpll-index
| |        +--ro state
| |          +--ro dpll-index?         uint8
| |          +--ro dpll-input?         string
| |          +--ro dpll-valid?         boolean
| |          +--ro dpll-conf-mode?     string
| |          +--ro dpll-actual-mode?   string
| +--rw interfaces {feature-list:NOT_HAVE_TIBIT}?
| | +--rw interface* [interface-name]
| |    +--rw interface-name    -> ../config/interface-name
| |    +--rw config
| |    | +--rw interface-name?            -> /ipi-interface:interfaces/interface/name
| |    | +--rw monitor-port?              ipi-platform-types:cmm_monitor_state
| |    | +--rw poe-enable?                empty
| |    | +--rw transceiver-code?          ipi-platform-transceiver-types:ddm_transceiver_t
| |    | +--rw wavelength?                ipi-platform-types:cml_wavelength_t
| |    | +--rw tx-disable?                empty
| |    | +--rw edfa-operating-mode?       ipi-platform-types:edfa_operating_mode_t
| |    | +--rw edfa-target-output-power?   decimal64
| |    | +--rw edfa-target-gain?          decimal64
| |    | +--rw tx-cdr-bypass?             empty
| |    | +--rw rx-cdr-bypass?             empty
| |    +--ro state
| |      +--ro interface-name?            -> /ipi-interface:interfaces/interface/name
| |      +--ro monitor-port?              ipi-platform-types:cmm_monitor_state
| |      +--ro poe-enable?                empty
| |      +--ro transceiver-code?          ipi-platform-transceiver-types:ddm_transceiver_t
| |      +--ro wavelength?                ipi-platform-types:cml_wavelength_t
| |      +--ro tx-disable?                empty
| |      +--ro edfa-operating-mode?       ipi-platform-types:edfa_operating_mode_t
| |      +--ro edfa-target-output-power?   decimal64
| |      +--ro edfa-target-gain?          decimal64
```


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```
| |       +--ro tx-cdr-bypass?              empty
| |       +--ro rx-cdr-bypass?              empty
| +--rw disk-activity-monitoring
| | +--rw config
| | | +--rw interval?          uint16
| | | +--rw read-threshold?    uint32
| | | +--rw write-threshold?   uint32
| | +--ro state
| |   +--ro interval?          uint16
| |   +--ro read-threshold?    uint32
| |   +--ro write-threshold?   uint32
| +--rw temperature
| | +--rw config
| | | +--rw temperature-policy?   ipi-platform-types:cml_temp_policy_t
| | +--ro state
| | | +--ro temperature-policy?   ipi-platform-types:cml_temp_policy_t
| | +--rw thresholds
| |   +--rw threshold* [sensor-id]
| |     +--rw sensor-id     -> ../config/sensor-id
| |     +--rw config
| |     | +--rw sensor-id?   uint8
| |     +--ro state
| |     | +--ro sensor-id?   uint8
| |     +--rw severities
| |       +--rw severity* [severity]
| |         +--rw severity    -> ../config/severity
| |         +--rw config
| |         | +--rw severity?   ipi-platform-types:cml_temp_threshold_t
| |         | +--rw value?      int16
| |         +--ro state
| |           +--ro severity?   ipi-platform-types:cml_temp_threshold_t
| |           +--ro value?      int16
| +--rw fan-duty-cycle
| | +--rw config
| | | +--rw fan-duty?   uint8
| | +--ro state
```

```
 | |    +--ro fan-duty?   uint8
 | +--rw phyports
 |    +--rw phyport* [ifname]
 |       +--rw ifname    -> ../config/ifname
 |       +--rw config
 |       | +--rw ifname?    string
 |       | +--rw disable?   empty
 |       +--ro state
 |         +--ro ifname?    string
 |         +--ro disable?   empty
 +--rw forwarding-profile-route-modes {feature-list:HAVE_BROADCOM}?
 +--rw profiles {feature-list:HAVE_BROADCOM}?
 | +--rw hardware-profile
 | | +--rw config
 | | | +--rw flow-control?                empty {feature-list:HAVE_BCM_UFT,feature-list:HAVE_DUNE}?
 | | | +--rw aclif?                       ipi-platform-profile-types:platform_aclif_type_t {feature-list:HAVE_DUNE}?
 | | | +--rw seamless-bfd?                empty {feature-list:HAVE_CUSTOM1_HW_BFD,feature-list:HAVE_SBFD}?
 | | | +--rw kbp-disable?                 empty {feature-list:HAVE_DNX}?
 | | | +--rw ufis9600-64x-port-mode?      ipi-platform-profile-types:platform_ufis9600_64x_port_mode_type_t
{feature-list:HAVE_DUNE}?
 | | | +--rw as7315_27x-port-mode?        ipi-platform-profile-types:platform_as7315_27x_port_mode_type_t {feature-
list:HAVE_DUNE}?
 | | | +--rw as5916_as5912_54x-port-mode?    ipi-platform-profile-
types:platform_as5916_as5912_54x_port_mode_type_t {feature-list:HAVE_DUNE}?
 | | | +--rw as7316_26xb-port-mode?       ipi-platform-profile-types:platform_as7316_26xb_port_mode_type_t
{feature-list:HAVE_DUNE}?
 | | | +--rw s9500_30xs-port-mode?        ipi-platform-profile-types:platform_s9500_30xs_port_mode_type_t {feature-
list:HAVE_DUNE}?
 | | | +--rw ufis9600-32x-port-mode?      ipi-platform-profile-types:platform_ufis9600_32x_port_mode_type_t
{feature-list:HAVE_DUNE}?
 | | | +--rw ufis9600-56dx-port-mode?     ipi-platform-profile-types:platform_ufis9600_56dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
 | | | +--rw ufis9600-28dx-port-mode?     ipi-platform-profile-types:platform_ufis9600_28dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
 | | | +--rw ufis9610-36d-port-mode?      ipi-platform-profile-types:platform_ufis9610_36d_port_mode_type_t
{feature-list:HAVE_DUNE}?
 | | | +--rw ufis9610-46dx-port-mode?     ipi-platform-profile-types:platform_ufis9610_46dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
 | | | +--rw ufis9610-48dx-port-mode?     ipi-platform-profile-types:platform_ufis9610_48dx_port_mode_type_t
{feature-list:HAVE_DUNE}?
```


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```
  | | | +--rw as9947_36xkb-port-mode?        ipi-platform-profile-types:platform_as9947_36kbx_port_mode_type_t
{feature-list:HAVE_DNX}?

  | | | +--rw custom-service-queue-profile?   ipi-platform-profile-types:platform_qos_queue_profile_type_t {feature-
list:HAVE_DUNE}?

  | | | +--rw bgp-flowspec-mode?             ipi-platform-profile-types:platform_bgp_flowspec_mode_t {feature-
list:HAVE_DUNE,feature-list:HAVE_BGP_FLOWSPEC}?

  | | | +--rw eedb?                          ipi-platform-profile-types:platform_eedb_mode_t {feature-list:HAVE_DNX}?

  | | +--ro state

  | | | +--ro flow-control?                  empty {feature-list:HAVE_BCM_UFT,feature-list:HAVE_DUNE}?

  | | | +--ro aclif?                         ipi-platform-profile-types:platform_aclif_type_t {feature-list:HAVE_DUNE}?

  | | | +--ro seamless-bfd?                  empty {feature-list:HAVE_CUSTOM1_HW_BFD,feature-list:HAVE_SBFD}?

  | | | +--ro kbp-disable?                   empty {feature-list:HAVE_DNX}?

  | | | +--ro ufis9600-64x-port-mode?        ipi-platform-profile-types:platform_ufis9600_64x_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro as7315_27x-port-mode?          ipi-platform-profile-types:platform_as7315_27x_port_mode_type_t {feature-
list:HAVE_DUNE}?

  | | | +--ro as5916_as5912_54x-port-mode?    ipi-platform-profile-
types:platform_as5916_as5912_54x_port_mode_type_t {feature-list:HAVE_DUNE}?

  | | | +--ro as7316_26xb-port-mode?         ipi-platform-profile-types:platform_as7316_26xb_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro s9500_30xs-port-mode?          ipi-platform-profile-types:platform_s9500_30xs_port_mode_type_t {feature-
list:HAVE_DUNE}?

  | | | +--ro ufis9600-32x-port-mode?        ipi-platform-profile-types:platform_ufis9600_32x_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro ufis9600-56dx-port-mode?       ipi-platform-profile-types:platform_ufis9600_56dx_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro ufis9600-28dx-port-mode?       ipi-platform-profile-types:platform_ufis9600_28dx_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro ufis9610-36d-port-mode?        ipi-platform-profile-types:platform_ufis9610_36d_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro ufis9610-46dx-port-mode?       ipi-platform-profile-types:platform_ufis9610_46dx_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro ufis9610-48dx-port-mode?       ipi-platform-profile-types:platform_ufis9610_48dx_port_mode_type_t
{feature-list:HAVE_DUNE}?

  | | | +--ro as9947_36xkb-port-mode?        ipi-platform-profile-types:platform_as9947_36kbx_port_mode_type_t
{feature-list:HAVE_DNX}?

  | | | +--ro custom-service-queue-profile?   ipi-platform-profile-types:platform_qos_queue_profile_type_t {feature-
list:HAVE_DUNE}?

  | | | +--ro bgp-flowspec-mode?             ipi-platform-profile-types:platform_bgp_flowspec_mode_t {feature-
list:HAVE_DUNE,feature-list:HAVE_BGP_FLOWSPEC}?

  | | | +--ro eedb?                          ipi-platform-profile-types:platform_eedb_mode_t {feature-list:HAVE_DNX}?

  | | +--rw filters
```

```
  | | | +--rw config
  | | | | +--rw ingress-ip-outer?            empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--rw egress-dst-ipv6?             empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--rw egress-src-ipv6?             empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--rw egress-ipv6-dnx?             empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--rw ingress-ipv6?                empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw qos-policer?                 empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw qos-ipv6?                    empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ipv4-bgp-flowspec?           empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_BGP_FLOWSPEC}?
  | | | | +--rw qos-extended?                empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-ipv4-extended?       empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-ipv6-qos?            empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-ipv4-qos?            empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-ipv6-qos-copp?       empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER,feature-list:HAVE_IPV6}?
  | | | | +--rw ingress-ipv4-qos-copp?       empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER}?
  | | | | +--rw ingress-layer2-extended?     empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-ipv6-extended?       empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-ipv6-extended-vlan?  empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-ipv6-extended-subif? empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--rw ingress-ipv4-subif?          empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-arp?                 empty {feature-list:HAVE_ACL}?
  | | | | +--rw egress-qos-policer?          empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?
  | | | | +--rw egress-qos-policer-ext?      empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--rw egress-ipv4-dnx?             empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?
  | | | | +--rw egress-l2-mlag?              empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?
  | | | | +--rw egress-ipv4-ext?             empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--rw egress-layer2-dnx?           empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--rw egress-layer2-ext?           empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--rw ingress-layer2-subif?        empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw twamp-ipv4-dnx?              empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE,feature-list:HAVE_DNX}?
  | | | | +--rw twamp-ipv6?                  empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE}?
```


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```
  | | | | +--rw vxlan-arp-nd?              empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
  | | | | +--rw vxlan-multi-homing?        empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
  | | | | +--rw vxlan-short-pkt?           empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?
  | | | | +--rw dhcp-snoop?                empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
  | | | | +--rw dhcp-snoop-ipv6?           empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
  | | | | +--rw ipsg?                      empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
  | | | | +--rw ipsg-ipv6?                 empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_BROADCOM}?
  | | | | +--rw ingress-ipv4?              empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw ingress-layer2?            empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--rw qos?                       empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | +--ro state
  | | | | +--ro ingress-ip-outer?          empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--ro egress-dst-ipv6?           empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--ro egress-src-ipv6?           empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--ro egress-ipv6-dnx?           empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--ro ingress-ipv6?              empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro qos-policer?               empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro qos-ipv6?                  empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ipv4-bgp-flowspec?         empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_BGP_FLOWSPEC}?
  | | | | +--ro qos-extended?              empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-ipv4-extended?     empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-ipv6-qos?          empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-ipv4-qos?          empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-ipv6-qos-copp?     empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER,feature-list:HAVE_IPV6}?
  | | | | +--ro ingress-ipv4-qos-copp?     empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX,feature-
list:HAVE_COPP_FILTER}?
  | | | | +--ro ingress-layer2-extended?   empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-ipv6-extended?     empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-ipv6-extended-vlan? empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-ipv6-extended-subif? empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--ro ingress-ipv4-subif?        empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-arp?               empty {feature-list:HAVE_ACL}?
  | | | | +--ro egress-qos-policer?        empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?
  | | | | +--ro egress-qos-policer-ext?    empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
```

```
  | | | | +--ro egress-ipv4-dnx?              empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?
  | | | | +--ro egress-l2-mlag?               empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE,feature-
list:HAVE_CUSTOM3_ACL}?
  | | | | +--ro egress-ipv4-ext?              empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--ro egress-layer2-dnx?            empty {feature-list:HAVE_ACL,feature-list:HAVE_CUSTOM3_ACL}?
  | | | | +--ro egress-layer2-ext?            empty {feature-list:HAVE_ACL,feature-list:HAVE_DNX}?
  | | | | +--ro ingress-layer2-subif?         empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro twamp-ipv4-dnx?               empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE,feature-list:HAVE_DNX}?
  | | | | +--ro twamp-ipv6?                   empty {feature-list:HAVE_TWAMP_HW_OFFLOAD,feature-
list:HAVE_TWAMP,feature-list:HAVE_DUNE}?
  | | | | +--ro vxlan-arp-nd?                 empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
  | | | | +--ro vxlan-multi-homing?           empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE}?
  | | | | +--ro vxlan-short-pkt?              empty {feature-list:HAVE_VXLAN,feature-list:HAVE_DUNE,feature-
list:HAVE_DNX}?
  | | | | +--ro dhcp-snoop?                   empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
  | | | | +--ro dhcp-snoop-ipv6?              empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
  | | | | +--ro ipsg?                         empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_DUNE}?
  | | | | +--ro ipsg-ipv6?                    empty {feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_BROADCOM}?
  | | | | +--ro ingress-ipv4?                 empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro ingress-layer2?               empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | | +--ro qos?                          empty {feature-list:HAVE_ACL,feature-list:HAVE_DUNE}?
  | | | +--ro tcam-utilization {feature-list:HAVE_ACL}?
  | | |    +--ro state
  | | |    | +--ro warning-threshold-level?         int32
  | | |    | +--ro critical-alert-threshold-level?  int32
  | | |    +--ro hardware-units
  | | |       +--ro hardware-unit* [unit core]
  | | |          +--ro unit            -> ../state/unit
  | | |          +--ro core            -> ../state/core
  | | |          +--ro state
  | | |          | +--ro unit?   uint32
  | | |          | +--ro core?   uint32
  | | |          +--ro filter-groups
  | | |             +--ro filter-group* [group-id]
  | | |                +--ro group-id    -> ../state/group-id
  | | |                +--ro state
```


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```
  | | |                +--ro group-id?           uint32
  | | |                +--ro group-name?         cml-data-types:cml_line_t
  | | |                +--ro free-entries?       int32
  | | |                +--ro used-entries?       int32
  | | |                +--ro used-percentage?    int32
  | | |                +--ro total-entries?      int32
  | | |                +--ro dedicated-entries?  int32
  | | |                +--ro shared-entries?     int32
  | | +--rw filter-evpn-mpls-mh
  | | | +--rw config
  | | | | +--rw evpn-mpls-multi-homing?   empty {feature-list:HAVE_NVO,feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?
  | | | +--ro state
  | | | | +--ro evpn-mpls-multi-homing?   empty {feature-list:HAVE_NVO,feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?
  | | | +--ro tcam-utilization {feature-list:HAVE_ACL}?
  | | |    +--ro state
  | | |    | +--ro warning-threshold-level?          int32
  | | |    | +--ro critical-alert-threshold-level?   int32
  | | |    +--ro filter-groups
  | | |       +--ro filter-group* [group-id]
  | | |          +--ro group-id    -> ../state/group-id
  | | |          +--ro state
  | | |             +--ro group-id?           uint32
  | | |             +--ro group-name?         cml-data-types:cml_line_t
  | | |             +--ro free-entries?       int32
  | | |             +--ro used-entries?       int32
  | | |             +--ro used-percentage?    int32
  | | |             +--ro total-entries?      int32
  | | |             +--ro dedicated-entries?  int32
  | | |             +--ro shared-entries?     int32
  | | +--rw statistics
  | | | +--rw config
  | | | | +--rw voq-scale?                              ipi-platform-profile-types:platform_voq_scale_type_t {feature-
list:HAVE_DNX}?
  | | | | +--rw virtual-output-queue-full-color-forward-drop?   ipi-platform-profile-types:cml_voq_full_color_fwd_drop_t
{feature-list:HAVE_DNX}?
  | | | | +--rw egress-policer?                         empty {feature-list:HAVE_DNX}?
```

```
  | | | | +--rw cfm-frame-loss-measurements?                 empty {feature-list:HAVE_DUNE,feature-list:HAVE_CFM}?
  | | | | +--rw cfm-synthetic-loss-measurements?             empty {feature-list:HAVE_DNX,feature-list:HAVE_CFM}?
  | | | | +--rw cfm-continuity-check-message?                cml-data-types:cml_enable_disable_t {feature-
list:HAVE_DNX,feature-list:CCM_HW_OFFLOAD}?
  | | | +--ro state
  | | |    +--ro voq-scale?                                  ipi-platform-profile-types:platform_voq_scale_type_t {feature-
list:HAVE_DNX}?
  | | |    +--ro virtual-output-queue-full-color-forward-drop?   ipi-platform-profile-types:cml_voq_full_color_fwd_drop_t
{feature-list:HAVE_DNX}?
  | | |    +--ro egress-policer?                             empty {feature-list:HAVE_DNX}?
  | | |    +--ro cfm-frame-loss-measurements?                empty {feature-list:HAVE_DUNE,feature-list:HAVE_CFM}?
  | | |    +--ro cfm-synthetic-loss-measurements?            empty {feature-list:HAVE_DNX,feature-list:HAVE_CFM}?
  | | |    +--ro cfm-continuity-check-message?               cml-data-types:cml_enable_disable_t {feature-
list:HAVE_DNX,feature-list:CCM_HW_OFFLOAD}?
  | | +--ro hardware-l2vpn-instances-limits
  | |    +--ro instances
  | |    | +--ro state
  | |    | | +--ro capacity?     uint32
  | |    | | +--ro used?         uint32
  | |    | | +--ro free?         uint32
  | |    | | +--ro percentage?   uint8
  | |    | +--ro services
  | |    |    +--ro service* [name]
  | |    |       +--ro name     -> ../state/name
  | |    |       +--ro state
  | |    |          +--ro name?         platform_l2vpn_services_t
  | |    |          +--ro capacity?     uint32
  | |    |          +--ro used?         uint32
  | |    |          +--ro free?         uint32
  | |    |          +--ro percentage?   uint8
  | |    +--ro vsi
  | |    | +--ro state
  | |    | | +--ro capacity?     uint32
  | |    | | +--ro used?         uint32
  | |    | | +--ro free?         uint32
  | |    | | +--ro percentage?   uint8
  | |    | +--ro services
  | |    |    +--ro service* [name]
```


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```
| |    |       +--ro name     -> ../state/name
| |    |       +--ro state
| |    |          +--ro name?         platform_l2vpn_services_t
| |    |          +--ro capacity?     uint32
| |    |          +--ro used?         uint32
| |    |          +--ro free?         uint32
| |    |          +--ro percentage?   uint8
| |    +--ro multicast-groups
| |       +--ro state
| |       | +--ro capacity?     uint32
| |       | +--ro used?         uint32
| |       | +--ro free?         uint32
| |       | +--ro percentage?   uint8
| |       +--ro services
| |          +--ro service* [name]
| |             +--ro name     -> ../state/name
| |             +--ro state
| |                +--ro name?         platform_l2vpn_services_t
| |                +--ro capacity?     uint32
| |                +--ro used?         uint32
| |                +--ro free?         uint32
| |                +--ro percentage?   uint8
| +--rw forwarding-profiles
|    +--ro table-limit {feature-list:HAVE_BCM_UFT}?
|    | +--ro kaps* [profile] {feature-list:HAVE_DUNE}?
|    | | +--ro profile    -> ../state/profile
|    | | +--ro state
|    | |    +--ro profile?          ipi-platform-profile-types:platform_kaps_forwading_profile_t
|    | |    +--ro is-active?        boolean
|    | |    +--ro public-db-size?   uint32
|    | |    +--ro private-db-size?  uint32
|    | +--ro external-tcam* [profile] {feature-list:HAVE_DUNE,feature-list:HAVE_ELK_TCAM}?
|    | | +--ro profile    -> ../state/profile
|    | | +--ro state
|    | |    +--ro profile?       ipi-platform-profile-types:platform_elk_tcam_forwading_profile_t
|    | |    +--ro is-active?     boolean
```

```
|    | |    +--ro ipv4-db-size?   uint32
|    | |    +--ro ipv6-db-size?   uint32
|    | +--ro state {feature-list:HAVE_BCM_UFT}?
|    +--rw mdb {feature-list:HAVE_DNX,feature-list:HAVE_BCM_UFT,feature-list:NOT_HAVE_MARVELL,feature-
list:NOT_HAVE_MARVELL}?
|    | +--rw config!
|    | | +--rw type    ipi-platform-profile-types:platform_mdb_profile_t
|    | | +--rw kaps    ipi-platform-profile-types:platform_mdb_kaps_type_t
|    | +--ro state
|    |    +--ro type    ipi-platform-profile-types:platform_mdb_profile_t
|    |    +--ro kaps    ipi-platform-profile-types:platform_mdb_kaps_type_t
|    +--ro hardware-routing-limits
|       +--ro lpm
|       | +--ro state
|       |    +--ro capacity?     uint32
|       |    +--ro used?         uint32
|       |    +--ro free?         uint32
|       |    +--ro percentage?   uint8
|       +--ro ipv4-lpm
|       | +--ro state
|       |    +--ro capacity?     uint32
|       |    +--ro used?         uint32
|       |    +--ro free?         uint32
|       |    +--ro percentage?   uint8
|       +--ro ipv6-lpm
|       | +--ro state
|       |    +--ro capacity?     uint32
|       |    +--ro used?         uint32
|       |    +--ro free?         uint32
|       |    +--ro percentage?   uint8
|       +--ro mpls-labels-pop
|       | +--ro state
|       |    +--ro capacity?     uint32
|       |    +--ro used?         uint32
|       |    +--ro free?         uint32
|       |    +--ro percentage?   uint8
|       +--ro mpls-labels-swap
```


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```
|          +--ro state
|             +--ro capacity?     uint32
|             +--ro used?         uint32
|             +--ro free?         uint32
|             +--ro percentage?   uint8
+--rw hardware {feature-list:HAVE_BROADCOM}?
| +--rw hw-soc-property
| | +--rw config
| | +--ro state
| +--rw load-balance {feature-list:HAVE_BROADCOM}?
| | +--rw config!
| | | +--rw enable              empty
| | | +--rw mpls-label-based?   empty
| | +--ro state
| | | +--ro enable              empty
| | | +--ro mpls-label-based?   empty
| | +--rw l2 {feature-list:HAVE_L2}?
| | | +--rw config
| | | | +--rw ether-type-based?     empty
| | | | +--rw vlan-based?           empty
| | | | +--rw src-dest-mac-based?   empty {feature-list:HAVE_DNX}?
| | | | +--rw symmetric-type?       ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
| | | +--ro state
| | | | +--ro ether-type-based?     empty
| | | | +--ro vlan-based?           empty
| | | | +--ro src-dest-mac-based?   empty {feature-list:HAVE_DNX}?
| | | | +--ro symmetric-type?       ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
| | | +--rw inner-l2 {feature-list:HAVE_L2,feature-list:HAVE_DNX,feature-list:NOT_HAVE_MARVELL,feature-
list:NOT_HAVE_MARVELL}?
| | |    +--rw config
| | |    | +--rw ether-type-based?     empty
| | |    | +--rw vlan-based?           empty
| | |    | +--rw src-dest-mac-based?   empty {feature-list:HAVE_DNX}?
| | |    | +--rw symmetric-type?       ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
| | |    +--ro state
| | |       +--ro ether-type-based?     empty
| | |       +--ro vlan-based?           empty
```

```
  | | |       +--ro src-dest-mac-based?   empty {feature-list:HAVE_DNX}?
  | | |       +--ro symmetric-type?       ipi-platform-profile-types:platform_loadbalance_type_t {feature-list:HAVE_DNX}?
  | | +--rw ipv4 {feature-list:HAVE_L3}?
  | | | +--rw config
  | | | | +--rw protocol-id-based?            empty
  | | | | +--rw src-dest-ipv4-address-based?   empty {feature-list:HAVE_DNX}?
  | | | | +--rw symmetric-type?               ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
  | | | +--ro state
  | | | | +--ro protocol-id-based?            empty
  | | | | +--ro src-dest-ipv4-address-based?   empty {feature-list:HAVE_DNX}?
  | | | | +--ro symmetric-type?               ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
  | | | +--rw inner-ipv4 {feature-list:HAVE_L3,feature-list:HAVE_DNX,feature-list:NOT_HAVE_MARVELL,feature-
list:NOT_HAVE_MARVELL}?
  | | |    +--rw config
  | | |    | +--rw src-dest-ipv4-address-based?   empty {feature-list:HAVE_DNX}?
  | | |    | +--rw symmetric-type?               ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
  | | |    | +--rw protocol-id-based?            empty {feature-list:HAVE_DNX}?
  | | |    +--ro state
  | | |       +--ro src-dest-ipv4-address-based?   empty {feature-list:HAVE_DNX}?
  | | |       +--ro symmetric-type?               ipi-platform-profile-types:platform_loadbalance_type_t {feature-
list:HAVE_DNX}?
  | | |       +--ro protocol-id-based?            empty {feature-list:HAVE_DNX}?
  | | +--rw ipv6 {feature-list:HAVE_L3}?
  | | | +--rw config
  | | | | +--rw next-header-based?            empty
  | | | | +--rw src-dest-ipv6-address-based?   empty {feature-list:HAVE_DNX}?
  | | | | +--rw flow-label-based?             empty {feature-list:HAVE_DNX}?
  | | | +--ro state
  | | |    +--ro next-header-based?            empty
  | | |    +--ro src-dest-ipv6-address-based?   empty {feature-list:HAVE_DNX}?
  | | |    +--ro flow-label-based?             empty {feature-list:HAVE_DNX}?
  | | +--rw l4-port {feature-list:HAVE_DNX,feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?
  | | | +--rw config
  | | | | +--rw src-dest-based?   empty
  | | | | +--rw symmetric-type?   ipi-platform-profile-types:platform_loadbalance_type_t
```


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```
| | | +--ro state
| | |    +--ro src-dest-based?   empty
| | |    +--ro symmetric-type?   ipi-platform-profile-types:platform_loadbalance_type_t
| | +--rw port-channel {feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?
| +--ro dram-tune {feature-list:HAVE_BROADCOM}?
| | +--ro state
| |    +--ro dram-tune-status?   int32 {feature-list:HAVE_BROADCOM}?
| +--rw cpu-queue {feature-list:HAVE_BROADCOM_OR_HAVE_MARVELL}?
| | +--rw rate-limits
| |    +--rw rate-limit* [queue-name]
| |       +--rw queue-name    -> ../config/queue-name
| |       +--rw config
| |       | +--rw queue-name?       ipi-platform-profile-types:platform_cpu_queue_name_t
| |       | +--rw rate?             int32
| |       | +--rw monitor-status?   ipi-platform-profile-types:platform_cpu_queue_monitor_t {feature-list:HAVE_DUNE}?
| |       +--ro state
| |          +--ro queue-name?       ipi-platform-profile-types:platform_cpu_queue_name_t
| |          +--ro rate?             int32
| |          +--ro monitor-status?   ipi-platform-profile-types:platform_cpu_queue_monitor_t {feature-list:HAVE_DUNE}?
| +--rw mac-ageing {feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?
| | +--rw config
| | +--ro state
| +--rw platform {feature-list:NOT_HAVE_MARVELL,feature-list:NOT_HAVE_MARVELL}?
|    +--rw config
|       +--rw soc?   ipi-platform-profile-types:platform_soc_type_t
+--rw qsfp-dds {feature-list:NOT_HAVE_XCVR_MODEL}?
  +--rw qsfp-dd* [fp-port]
     +--rw fp-port            -> ../config/fp-port
     +--rw config
     | +--rw fp-port?              uint8
     | +--rw application?          uint8
     | +--rw service-disable?      empty
     | +--rw custom-app-host-id?   uint8
     | +--rw custom-app-media-id?  uint8
     +--ro state
     | +--ro fp-port?              uint8
```

```
|  +--ro application?           uint8
|  +--ro service-disable?       empty
|  +--ro custom-app-host-id?    uint8
|  +--ro custom-app-media-id?   uint8
+--rw host
|  +--rw prbs
|  |  +--rw generator
|  |  |  +--rw config
|  |  |  |  +--rw type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
|  |  |  |  +--rw location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
|  |  |  +--ro state
|  |  |     +--ro type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
|  |  |     +--ro location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
|  |  +--rw checker
|  |     +--rw config
|  |     |  +--rw type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
|  |     |  +--rw location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
|  |     +--ro state
|  |        +--ro type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
|  |        +--ro location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
|  +--rw loopback
|  |  +--rw config
|  |  |  +--rw type?   ipi-platform-cmis-types:cmm_cmis_loopback_type_t
|  |  +--ro state
|  |     +--ro type?   ipi-platform-cmis-types:cmm_cmis_loopback_type_t
|  +--rw lanes
|     +--rw lane* [lane-number]
|        +--rw lane-number         -> ../config/lane-number
|        +--rw config
|        |  +--rw lane-number?   uint8
|        +--ro state
|        |  +--ro lane-number?   uint8
|        +--rw thresholds
|        |  +--rw threshold* [id]
|        |     +--rw id        -> ../config/id
|        |     +--rw config
```


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```
|       |    | +--rw id?            ipi-platform-cmis-types:cmm_ccmis_host_lane_thres_id_t
|       |    | +--rw high-alarm?     decimal64
|       |    | +--rw low-alarm?      decimal64
|       |    | +--rw high-warning?   decimal64
|       |    | +--rw low-warning?    decimal64
|       |    +--ro state
|       |      +--ro id?            ipi-platform-cmis-types:cmm_ccmis_host_lane_thres_id_t
|       |      +--ro high-alarm?     decimal64
|       |      +--ro low-alarm?      decimal64
|       |      +--ro high-warning?   decimal64
|       |      +--ro low-warning?    decimal64
|       +--rw signal-integrity
|         +--rw config
|         | +--rw tx-input-equalizer-target?               uint8
|         | +--rw rx-output-equalizer-pre-cursor-target?    uint8
|         | +--rw rx-output-equalizer-post-cursor-target?   uint8
|         | +--rw rx-output-amplitude-target?               uint8
|         | +--rw tx-cdr-bypass?                           empty
|         | +--rw rx-cdr-bypass?                           empty
|         +--ro state
|           +--ro tx-input-equalizer-target?               uint8
|           +--ro rx-output-equalizer-pre-cursor-target?    uint8
|           +--ro rx-output-equalizer-post-cursor-target?   uint8
|           +--ro rx-output-amplitude-target?               uint8
|           +--ro tx-cdr-bypass?                           empty
|           +--ro rx-cdr-bypass?                           empty
+--rw media
| +--rw prbs
| | +--rw generator
| | | +--rw config
| | | | +--rw type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| | | | +--rw location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| | | +--ro state
| | |    +--ro type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| | |    +--ro location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| | +--rw checker
```

```
| |    +--rw config
| |    | +--rw type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| |    | +--rw location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| |    +--ro state
| |      +--ro type?       ipi-platform-cmis-types:cmm_cmis_prbs_type_t
| |      +--ro location?   ipi-platform-cmis-types:cmm_cmis_prbs_location_t
| +--rw loopback
| | +--rw config
| | | +--rw type?   ipi-platform-cmis-types:cmm_cmis_loopback_type_t
| | +--ro state
| |    +--ro type?   ipi-platform-cmis-types:cmm_cmis_loopback_type_t
| +--rw lanes
|    +--rw lane* [lane-number]
|      +--rw lane-number    -> ../config/lane-number
|      +--rw config
|      | +--rw lane-number?   uint8
|      +--ro state
|      | +--ro lane-number?   uint8
|      +--rw laser
|      | +--rw config
|      | | +--rw channel?          int16
|      | | +--rw grid?             ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
|      | | +--rw fine-tune-freq?   decimal64
|      | | +--rw output-power?     decimal64
|      | +--ro state
|      |    +--ro channel?          int16
|      |    +--ro grid?             ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
|      |    +--ro fine-tune-freq?   decimal64
|      |    +--ro output-power?     decimal64
|      +--rw thresholds
|      | +--rw threshold* [id]
|      |    +--rw id        -> ../config/id
|      |    +--rw config
|      |    | +--rw id?             ipi-platform-cmis-types:cmm_ccmis_media_lane_thres_id_t
|      |    | +--rw high-alarm?     decimal64
|      |    | +--rw low-alarm?      decimal64
```


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```
|       |    | +--rw high-warning?   decimal64
|       |    | +--rw low-warning?    decimal64
|       |    +--ro state
|       |       +--ro id?            ipi-platform-cmis-types:cmm_ccmis_media_lane_thres_id_t
|       |       +--ro high-alarm?     decimal64
|       |       +--ro low-alarm?      decimal64
|       |       +--ro high-warning?   decimal64
|       |       +--ro low-warning?    decimal64
|       +--rw provisions
|          +--rw config
|          | +--rw tx-filter-type?       ipi-platform-cmis-types:cmm_cmis_tx_filter_type_t
|          | +--rw tx-filter-roll-off?   decimal64
|          +--ro state
|             +--ro tx-filter-type?       ipi-platform-cmis-types:cmm_cmis_tx_filter_type_t
|             +--ro tx-filter-roll-off?   decimal64
+--rw laser
| +--rw config
| | +--rw channel?          int16
| | +--rw grid?             ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
| | +--rw fine-tune-freq?   decimal64
| | +--rw output-power?     decimal64
| +--ro state
|    +--ro channel?          int16
|    +--ro grid?             ipi-platform-cmis-types:cmm_cmis_laser_grid_spacing_t
|    +--ro fine-tune-freq?   decimal64
|    +--ro output-power?     decimal64
+--rw thresholds
| +--rw threshold* [id]
|    +--rw id       -> ../config/id
|    +--rw config
|    | +--rw id?             ipi-platform-cmis-types:cmm_ccmis_thres_id_t
|    | +--rw high-alarm?     decimal64
|    | +--rw low-alarm?      decimal64
|    | +--rw high-warning?   decimal64
|    | +--rw low-warning?    decimal64
|    +--ro state
```

```
|       +--ro id?             ipi-platform-cmis-types:cmm_ccmis_thres_id_t
|       +--ro high-alarm?     decimal64
|       +--ro low-alarm?      decimal64
|       +--ro high-warning?   decimal64
|       +--ro low-warning?    decimal64
+--rw signal-integrity
| +--rw config
| | +--rw tx-input-equalizer-target?               uint8
| | +--rw rx-output-equalizer-pre-cursor-target?   uint8
| | +--rw rx-output-equalizer-post-cursor-target?  uint8
| | +--rw rx-output-amplitude-target?              uint8
| | +--rw tx-cdr-bypass?                           empty
| | +--rw rx-cdr-bypass?                           empty
| +--ro state
|   +--ro tx-input-equalizer-target?               uint8
|   +--ro rx-output-equalizer-pre-cursor-target?   uint8
|   +--ro rx-output-equalizer-post-cursor-target?  uint8
|   +--ro rx-output-amplitude-target?              uint8
|   +--ro tx-cdr-bypass?                           empty
|   +--ro rx-cdr-bypass?                           empty
+--rw gating
| +--rw config
| | +--rw interval?   ipi-platform-cmis-types:cmm_cmis_gating_interval_t
| +--ro state
|   +--ro interval?   ipi-platform-cmis-types:cmm_cmis_gating_interval_t
+--rw provisions
  +--rw config
  | +--rw tx-filter-type?       ipi-platform-cmis-types:cmm_cmis_tx_filter_type_t
  | +--rw tx-filter-roll-off?   decimal64
  +--ro state
    +--ro tx-filter-type?       ipi-platform-cmis-types:cmm_cmis_tx_filter_type_t
    +--ro tx-filter-roll-off?   decimal64

rpcs:
 +---x transceiver-cmis-write {feature-list:HAVE_CMMD,feature-list:NOT_HAVE_TIBIT}?
 | +---w input
```


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```
|    +---w component-name    string
|    +---w bank              uint8
|    +---w page              uint8
|    +---w offset            uint8
|    +---w size              int16
|    +---w value             string
+---x transceiver-cmis-read {feature-list:HAVE_CMMD,feature-list:NOT_HAVE_TIBIT}?
|  +---w input
|  |  +---w component-name    string
|  |  +---w bank              uint8
|  |  +---w page              uint8
|  |  +---w offset            uint8
|  |  +---w size              int16
|  +--ro output
|    +--ro result    string
+---x tibit-olt-microplug-set-management-vlan-tpid {feature-list:NOT_HAVE_TIBIT}?
|  +---w input
|    +---w interface-name    string
|    +---w vlan-tpid         ipi-platform-transceiver-tibit-types:trans_tibit_cmm_tpid_t
+---x tibit-olt-microplug-set-management-vlan-id {feature-list:NOT_HAVE_TIBIT}?
|  +---w input
|    +---w interface-name    string
|    +---w vlan-id           uint16
+---x tibit-olt-microplug-set-ethernet-mac-address {feature-list:NOT_HAVE_TIBIT}?
|  +---w input
|    +---w interface-name    string
|    +---w mac-address       yang:mac-address
+---x tibit-olt-microplug-set-next-active-firmware-bank {feature-list:NOT_HAVE_TIBIT}?
|  +---w input
|    +---w interface-name    string
|    +---w bank-id           uint8
+---x tibit-olt-microplug-reboot {feature-list:NOT_HAVE_TIBIT}?
|  +---w input
|    +---w interface-name    string
+---x ddm-clear-transceiver-alarm-all {feature-list:NOT_HAVE_TIBIT}?
+---x ddm-clear-transceiver-alarm {feature-list:NOT_HAVE_TIBIT}?
```

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```
  |  +---w input
  |     +---w name    string
  +---x cmm-terminal-debug-ddm-on {feature-list:NOT_HAVE_TIBIT}?
  +---x cmm-terminal-debug-ddm-off {feature-list:NOT_HAVE_TIBIT}?
  +---x cmm-terminal-debug-cmm-on {feature-list:HAVE_CMMD}?
  +---x cmm-terminal-debug-cmm-off {feature-list:HAVE_CMMD}?
  +---x gps-survey-restart {feature-list:HAVE_PTP_HW_OFFLOAD}?

 notifications:
  +---n bmc-lower-non-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro name?                 string
  |  +--ro lower-non-critical?   decimal64
  |  +--ro threshold?            decimal64
  |  +--ro units?                string
  |  +--ro event-type?           ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-lower-non-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro name?                 string
  |  +--ro lower-non-critical?   decimal64
  |  +--ro threshold?            decimal64
  |  +--ro units?                string
  |  +--ro event-type?           ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-lower-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro name?             string
  |  +--ro lower-critical?   decimal64
  |  +--ro threshold?        decimal64
  |  +--ro units?            string
  |  +--ro event-type?       ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-lower-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
```


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```
|  +--ro name?             string
|  +--ro lower-critical?   decimal64
|  +--ro threshold?        decimal64
|  +--ro units?            string
|  +--ro event-type?       ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-lower-non-recoverable-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?              cml-data-types:cml_notif_severity_t
|  +--ro eventClass?            cml-data-types:cml_notif_class_t
|  +--ro name?                  string
|  +--ro lower-non-recoverable?   decimal64
|  +--ro threshold?             decimal64
|  +--ro units?                 string
|  +--ro event-type?            ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-lower-non-recoverable-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?              cml-data-types:cml_notif_severity_t
|  +--ro eventClass?            cml-data-types:cml_notif_class_t
|  +--ro name?                  string
|  +--ro lower-non-recoverable?   decimal64
|  +--ro threshold?             decimal64
|  +--ro units?                 string
|  +--ro event-type?            ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-non-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?            cml-data-types:cml_notif_severity_t
|  +--ro eventClass?          cml-data-types:cml_notif_class_t
|  +--ro name?                string
|  +--ro upper-non-critical?   decimal64
|  +--ro threshold?           decimal64
|  +--ro units?               string
|  +--ro event-type?          ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-non-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?            cml-data-types:cml_notif_severity_t
|  +--ro eventClass?          cml-data-types:cml_notif_class_t
|  +--ro name?                string
|  +--ro upper-non-critical?   decimal64
|  +--ro threshold?           decimal64
|  +--ro units?               string
```

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```
  |  +--ro event-type?          ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-upper-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro name?             string
  |  +--ro upper-critical?   decimal64
  |  +--ro threshold?        decimal64
  |  +--ro units?            string
  |  +--ro event-type?       ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-upper-critical-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro name?             string
  |  +--ro upper-critical?   decimal64
  |  +--ro threshold?        decimal64
  |  +--ro units?            string
  |  +--ro event-type?       ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-upper-non-recoverable-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?               cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?             cml-data-types:cml_notif_class_t
  |  +--ro name?                   string
  |  +--ro upper-non-recoverable?   decimal64
  |  +--ro threshold?              decimal64
  |  +--ro units?                  string
  |  +--ro event-type?             ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-upper-non-recoverable-high-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?               cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?             cml-data-types:cml_notif_class_t
  |  +--ro name?                   string
  |  +--ro upper-non-recoverable?   decimal64
  |  +--ro threshold?              decimal64
  |  +--ro units?                  string
  |  +--ro event-type?             ipi-platform-types:cmm_bmc_event_type_t
  +---n bmc-device-state-notification {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?            cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?          cml-data-types:cml_notif_class_t
```


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```
|  +--ro name?                string
|  +--ro operational-status?   string
+---n cpu-load-15min-alert
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro cpu-15min-load-percentage?   decimal64
|  +--ro cpu-15min-alert-threshold?   uint8
+---n cpu-load-15min-alert-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro cpu-15min-load-percentage?   decimal64
|  +--ro cpu-15min-alert-threshold?   uint8
+---n cpu-load-5min-alert
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro cpu-5min-load-percentage?   decimal64
|  +--ro cpu-5min-alert-threshold?   uint8
+---n cpu-load-5min-alert-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro cpu-5min-load-percentage?   decimal64
|  +--ro cpu-5min-alert-threshold?   uint8
+---n cpu-load-1min-critical
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro cpu-1min-load-percentage?      decimal64
|  +--ro cpu-1min-critical-threshold?   uint8
+---n cpu-load-1min-critical-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
```

```
  |  +--ro cpu-1min-load-percentage?      decimal64
  |  +--ro cpu-1min-critical-threshold?   uint8
  +---n cpu-load-1min-alert
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro cpu-1min-load-percentage?   decimal64
  |  +--ro cpu-1min-alert-threshold?   uint8
  +---n cpu-load-1min-alert-recovery
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro cpu-1min-load-percentage?   decimal64
  |  +--ro cpu-1min-alert-threshold?   uint8
  +---n storage-usage-rising-alert
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro used-memory?             uint64
  |  +--ro usage-alert-threshold?   int32
  |  +--ro mount-point?             string
  +---n storage-usage-critical-alert
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro used-memory?                uint64
  |  +--ro usage-critical-threshold?   int32
  |  +--ro mount-point?               string
  +---n storage-usage-recovery-from-alert-level
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro used-memory?             uint64
  |  +--ro usage-alert-threshold?   int32
  |  +--ro mount-point?             string
  +---n storage-usage-recovery-from-critical-level
```


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```
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro used-memory?              uint64
|  +--ro usage-critical-threshold?   int32
|  +--ro mount-point?              string
+---n storage-remaining-life-rising-alert
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro remaining-life?           int32
|  +--ro remain-life-alert-threshold?   int32
+---n storage-remaining-life-rising-critical
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro remaining-life?           int32
|  +--ro remain-life-critical-threshold?   int32
+---n storage-available-reserved-space-rising-alert
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro available-reserved-space?          int32
|  +--ro available-reserved-space-alert-threshold?   int32
+---n storage-available-reserved-space-rising-critical
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro available-reserved-space?          int32
|  +--ro available-reserved-space-critical-threshold?   int32
+---n storage-reallocated-sector-count-rising-alert
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro reallocated-sector-count?   int32
+---n storage-uncorrectable-sector-count-rising-critical
```

```
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro name?                        string
  |  +--ro uncorrectable-sector-count?  int32
  +---n storage-harddisk-monitoring-read-alert
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro name?            string
  |  +--ro read-average?    int32
  |  +--ro read-threshold?  int32
  +---n storage-harddisk-recovery-from-read-alert-level
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro name?            string
  |  +--ro read-average?    int32
  |  +--ro read-threshold?  int32
  +---n storage-harddisk-monitoring-write-alert
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro name?            string
  |  +--ro write-average?   int32
  |  +--ro write-threshold? int32
  +---n storage-harddisk-recovery-from-write-alert-level
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro name?            string
  |  +--ro write-average?   int32
  |  +--ro write-threshold? int32
  +---n storage-storage-status-alert
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro name?            string
  |  +--ro storage-status?  ipi-platform-types:cml_cmm_storage_status_t
  +---n storage-storage-status-critical
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
```


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```
|  +--ro name?              string
|  +--ro storage-status?   ipi-platform-types:cml_cmm_storage_status_t
+---n ram-usage-rising-critical
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro used-memory?                uint64
|  +--ro usage-critical-threshold?   uint32
+---n ram-usage-rising-alert
|  +--ro severity?               cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                   string
|  +--ro used-memory?              uint64
|  +--ro usage-alert-threshold?   uint32
+---n ram-usage-recovery-from-critical-level
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro used-memory?                uint64
|  +--ro usage-critical-threshold?   uint32
+---n ram-usage-recovery-from-alert-level
|  +--ro severity?               cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                   string
|  +--ro used-memory?              uint64
|  +--ro usage-alert-threshold?   uint32
+---n transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?              cml-data-types:cml_notif_severity_t
|  +--ro eventClass?             cml-data-types:cml_notif_class_t
|  +--ro name?                  string
|  +--ro port-no?               uint8
|  +--ro type?                  ipi-platform-transceiver-types:ddm_cmm_trans_type_t
|  +--ro vendor-name?            string
|  +--ro vendor-serial-number?   string
|  +--ro connector-type?         ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
+---n transceiver-removed {feature-list:NOT_HAVE_TIBIT}?
```

```
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro name?                  string
  |  +--ro port-no?               uint8
  |  +--ro type?                  ipi-platform-transceiver-types:ddm_cmm_trans_type_t
  |  +--ro vendor-name?           string
  |  +--ro vendor-serial-number?  string
  |  +--ro connector-type?        ipi-platform-sff8024-types:cmm_sff8024_connector_type_t
  +---n faulty-transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  |  +--ro port-no?      uint8
  |  +--ro type?         ipi-platform-transceiver-types:ddm_cmm_trans_type_t
  +---n incompatible-transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  |  +--ro port-no?      uint8
  +---n incompatible-transceiver-removed {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  |  +--ro port-no?      uint8
  +---n frequency-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro name?                              string
  |  +--ro frequency-error?                   decimal64
  |  +--ro frequency-error-critical-min-threshold?   decimal64
  |  +--ro frequency-error-critical-max-threshold?   decimal64
  +---n frequency-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro name?                              string
  |  +--ro frequency-error?                   decimal64
```


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```
|  +--ro frequency-error-critical-min-threshold?   decimal64
|  +--ro frequency-error-critical-max-threshold?   decimal64
+---n frequency-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro name?                            string
|  +--ro frequency-error?                    decimal64
|  +--ro frequency-error-alert-min-threshold?   decimal64
|  +--ro frequency-error-alert-max-threshold?   decimal64
+---n frequency-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro name?                            string
|  +--ro frequency-error?                    decimal64
|  +--ro frequency-error-alert-min-threshold?   decimal64
|  +--ro frequency-error-alert-max-threshold?   decimal64
+---n frequency-error-recovery {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro name?              string
|  +--ro frequency-error?   decimal64
+---n wavelength-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro name?                            string
|  +--ro wavelength-error?                   decimal64
|  +--ro wavelength-error-critical-min-threshold?   decimal64
|  +--ro wavelength-error-critical-max-threshold?   decimal64
+---n wavelength-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro name?                            string
|  +--ro wavelength-error?                   decimal64
|  +--ro wavelength-error-critical-min-threshold?   decimal64
|  +--ro wavelength-error-critical-max-threshold?   decimal64
+---n wavelength-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
```

```
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro name?                              string
  |  +--ro wavelength-error?                  decimal64
  |  +--ro wavelength-error-alert-min-threshold?   decimal64
  |  +--ro wavelength-error-alert-max-threshold?   decimal64
  +---n wavelength-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro name?                              string
  |  +--ro wavelength-error?                  decimal64
  |  +--ro wavelength-error-alert-min-threshold?   decimal64
  |  +--ro wavelength-error-alert-max-threshold?   decimal64
  +---n wavelength-error-recovery {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro name?              string
  |  +--ro wavelength-error?   decimal64
  +---n thermoelectric-cooler-fault-alert {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro thermoelectric-cooler-fault?   boolean
  +---n thermoelectric-cooler-fault-recovery {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro thermoelectric-cooler-fault?   boolean
  +---n rx-loss-of-signal {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro index?        uint8
  |  +--ro name?         string
  +---n rx-loss-of-signal-recovery {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
```


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```
|  +--ro index?       uint8
|  +--ro name?        string
+---n input-power-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                      cml-data-types:cml_notif_class_t
|  +--ro index?                           uint8
|  +--ro name?                            string
|  +--ro input-power?                     decimal64
|  +--ro input-power-critical-min-threshold?   decimal64
|  +--ro input-power-critical-max-threshold?   decimal64
+---n input-power-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                      cml-data-types:cml_notif_class_t
|  +--ro index?                           uint8
|  +--ro name?                            string
|  +--ro input-power?                     decimal64
|  +--ro input-power-critical-min-threshold?   decimal64
|  +--ro input-power-critical-max-threshold?   decimal64
+---n input-power-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                      cml-data-types:cml_notif_class_t
|  +--ro index?                           uint8
|  +--ro name?                            string
|  +--ro input-power?                     decimal64
|  +--ro input-power-alert-min-threshold?   decimal64
|  +--ro input-power-alert-max-threshold?   decimal64
+---n input-power-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                      cml-data-types:cml_notif_class_t
|  +--ro index?                           uint8
|  +--ro name?                            string
|  +--ro input-power?                     decimal64
|  +--ro input-power-alert-min-threshold?   decimal64
|  +--ro input-power-alert-max-threshold?   decimal64
+---n input-power-error-recovery {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?      cml-data-types:cml_notif_severity_t
```

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```
  |  +--ro eventClass?    cml-data-types:cml_notif_class_t
  |  +--ro index?         uint8
  |  +--ro name?          string
  |  +--ro input-power?   decimal64
  +---n output-power-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro index?                             uint8
  |  +--ro name?                              string
  |  +--ro output-power?                      decimal64
  |  +--ro output-power-critical-min-threshold?   decimal64
  |  +--ro output-power-critical-max-threshold?   decimal64
  +---n output-power-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro index?                             uint8
  |  +--ro name?                              string
  |  +--ro output-power?                      decimal64
  |  +--ro output-power-critical-min-threshold?   decimal64
  |  +--ro output-power-critical-max-threshold?   decimal64
  +---n output-power-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro index?                             uint8
  |  +--ro name?                              string
  |  +--ro output-power?                      decimal64
  |  +--ro output-power-alert-min-threshold?   decimal64
  |  +--ro output-power-alert-max-threshold?   decimal64
  +---n output-power-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                        cml-data-types:cml_notif_class_t
  |  +--ro index?                             uint8
  |  +--ro name?                              string
  |  +--ro output-power?                      decimal64
  |  +--ro output-power-alert-min-threshold?   decimal64
  |  +--ro output-power-alert-max-threshold?   decimal64
```


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```
+---n output-power-error-recovery {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?       cml-data-types:cml_notif_severity_t
|  +--ro eventClass?     cml-data-types:cml_notif_class_t
|  +--ro index?          uint8
|  +--ro name?           string
|  +--ro output-power?   decimal64
+---n laser-bias-current-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro index?                             uint8
|  +--ro name?                              string
|  +--ro laser-bias-current?                decimal64
|  +--ro laser-bias-current-critical-min-threshold?   decimal64
|  +--ro laser-bias-current-critical-max-threshold?   decimal64
+---n laser-bias-current-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro index?                             uint8
|  +--ro name?                              string
|  +--ro laser-bias-current?                decimal64
|  +--ro laser-bias-current-critical-min-threshold?   decimal64
|  +--ro laser-bias-current-critical-max-threshold?   decimal64
+---n laser-bias-current-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro index?                             uint8
|  +--ro name?                              string
|  +--ro laser-bias-current?                decimal64
|  +--ro laser-bias-current-alert-min-threshold?   decimal64
|  +--ro laser-bias-current-alert-max-threshold?   decimal64
+---n laser-bias-current-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                        cml-data-types:cml_notif_class_t
|  +--ro index?                             uint8
|  +--ro name?                              string
|  +--ro laser-bias-current?                decimal64
```

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```
  |  +--ro laser-bias-current-alert-min-threshold?   decimal64
  |  +--ro laser-bias-current-alert-max-threshold?   decimal64
  +---n laser-bias-current-error-recovery {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?            cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?          cml-data-types:cml_notif_class_t
  |  +--ro index?               uint8
  |  +--ro name?                string
  |  +--ro laser-bias-current?   decimal64
  +---n transceiver-temperature-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                      cml-data-types:cml_notif_class_t
  |  +--ro name?                            string
  |  +--ro transceiver-temperature?             decimal64
  |  +--ro temperature-critical-min-threshold?   decimal64
  |  +--ro temperature-critical-max-threshold?   decimal64
  +---n transceiver-temperature-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                      cml-data-types:cml_notif_class_t
  |  +--ro name?                            string
  |  +--ro transceiver-temperature?             decimal64
  |  +--ro temperature-critical-min-threshold?   decimal64
  |  +--ro temperature-critical-max-threshold?   decimal64
  +---n transceiver-temperature-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                       cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                      cml-data-types:cml_notif_class_t
  |  +--ro name?                           string
  |  +--ro transceiver-temperature?          decimal64
  |  +--ro temperature-alert-min-threshold?   decimal64
  |  +--ro temperature-alert-max-threshold?   decimal64
  +---n transceiver-temperature-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
  |  +--ro severity?                       cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                      cml-data-types:cml_notif_class_t
  |  +--ro name?                           string
  |  +--ro transceiver-temperature?          decimal64
  |  +--ro temperature-alert-min-threshold?   decimal64
  |  +--ro temperature-alert-max-threshold?   decimal64
```


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```
+---n transceiver-temperature-error-recovery {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro transceiver-temperature?   decimal64
+---n transceiver-voltage-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                    cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                        string
|  +--ro transceiver-voltage?             decimal64
|  +--ro voltage-critical-min-threshold?   decimal64
|  +--ro voltage-critical-max-threshold?   decimal64
+---n transceiver-voltage-error-low-critical {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                    cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                        string
|  +--ro transceiver-voltage?             decimal64
|  +--ro voltage-critical-min-threshold?   decimal64
|  +--ro voltage-critical-max-threshold?   decimal64
+---n transceiver-voltage-error-high-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro transceiver-voltage?           decimal64
|  +--ro voltage-alert-min-threshold?   decimal64
|  +--ro voltage-alert-max-threshold?   decimal64
+---n transceiver-voltage-error-low-alert {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro transceiver-voltage?           decimal64
|  +--ro voltage-alert-min-threshold?   decimal64
|  +--ro voltage-alert-max-threshold?   decimal64
+---n transceiver-voltage-error-recovery {feature-list:NOT_HAVE_TIBIT}?
|  +--ro severity?              cml-data-types:cml_notif_severity_t
|  +--ro eventClass?            cml-data-types:cml_notif_class_t
```

```
  |  +--ro name?                  string
  |  +--ro transceiver-voltage?   decimal64
  +---n temperature-high
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro name?              string
  |  +--ro alarm-status?      boolean
  |  +--ro alarm-threshold?   decimal64
  |  +--ro instant?           decimal64
  +---n temperature-low
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro name?              string
  |  +--ro alarm-status?      boolean
  |  +--ro alarm-threshold?   decimal64
  |  +--ro instant?           decimal64
  +---n power-supply-inserted
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  +---n power-supply-absent
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  +---n power-supply-ac-failed
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  +---n power-supply-ac-recovery
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  +---n power-supply-12v-failed
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
```


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```
+---n power-supply-12v-recovery
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro name?         string
+---n psu-vin-low-alert
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro input-voltage?           decimal64
|  +--ro vin-alert-threshold-min?   decimal64
|  +--ro vin-alert-threshold-max?   decimal64
+---n psu-vin-high-alert
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro input-voltage?           decimal64
|  +--ro vin-alert-threshold-min?   decimal64
|  +--ro vin-alert-threshold-max?   decimal64
+---n psu-vin-low-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro input-voltage?             decimal64
|  +--ro vin-critical-threshold-min?   decimal64
|  +--ro vin-critical-threshold-max?   decimal64
+---n psu-vin-high-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro input-voltage?             decimal64
|  +--ro vin-critical-threshold-min?   decimal64
|  +--ro vin-critical-threshold-max?   decimal64
+---n psu-vin-low-alert-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                    string
```

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```
  |  +--ro input-voltage?            decimal64
  |  +--ro vin-alert-threshold-min?   decimal64
  |  +--ro vin-alert-threshold-max?   decimal64
  +---n psu-vin-high-alert-recovery
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?               cml-data-types:cml_notif_class_t
  |  +--ro name?                     string
  |  +--ro input-voltage?            decimal64
  |  +--ro vin-alert-threshold-min?   decimal64
  |  +--ro vin-alert-threshold-max?   decimal64
  +---n psu-vin-low-critical-recovery
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                     string
  |  +--ro input-voltage?             decimal64
  |  +--ro vin-critical-threshold-min?   decimal64
  |  +--ro vin-critical-threshold-max?   decimal64
  +---n psu-vin-high-critical-recovery
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                     string
  |  +--ro input-voltage?             decimal64
  |  +--ro vin-critical-threshold-min?   decimal64
  |  +--ro vin-critical-threshold-max?   decimal64
  +---n psu-vout-low-alert
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?               cml-data-types:cml_notif_class_t
  |  +--ro name?                     string
  |  +--ro output-voltage?           decimal64
  |  +--ro vout-alert-threshold-min?   decimal64
  |  +--ro vout-alert-threshold-max?   decimal64
  +---n psu-vout-high-alert
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?               cml-data-types:cml_notif_class_t
  |  +--ro name?                     string
  |  +--ro output-voltage?           decimal64
```


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```
|  +--ro vout-alert-threshold-min?   decimal64
|  +--ro vout-alert-threshold-max?   decimal64
+---n psu-vout-low-critical
|  +--ro severity?                   cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                 cml-data-types:cml_notif_class_t
|  +--ro name?                       string
|  +--ro output-voltage?             decimal64
|  +--ro vout-critical-threshold-min?   decimal64
|  +--ro vout-critical-threshold-max?   decimal64
+---n psu-vout-high-critical
|  +--ro severity?                   cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                 cml-data-types:cml_notif_class_t
|  +--ro name?                       string
|  +--ro output-voltage?             decimal64
|  +--ro vout-critical-threshold-min?   decimal64
|  +--ro vout-critical-threshold-max?   decimal64
+---n psu-vout-low-alert-recovery
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro output-voltage?           decimal64
|  +--ro vout-alert-threshold-min?   decimal64
|  +--ro vout-alert-threshold-max?   decimal64
+---n psu-vout-high-alert-recovery
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro output-voltage?           decimal64
|  +--ro vout-alert-threshold-min?   decimal64
|  +--ro vout-alert-threshold-max?   decimal64
+---n psu-vout-low-critical-recovery
|  +--ro severity?                   cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                 cml-data-types:cml_notif_class_t
|  +--ro name?                       string
|  +--ro output-voltage?             decimal64
|  +--ro vout-critical-threshold-min?   decimal64
```

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```
  |  +--ro vout-critical-threshold-max?   decimal64
  +---n psu-vout-high-critical-recovery
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro output-voltage?            decimal64
  |  +--ro vout-critical-threshold-min?   decimal64
  |  +--ro vout-critical-threshold-max?   decimal64
  +---n psu-pin-low-alert
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro input-power?             decimal64
  |  +--ro pin-alert-threshold-min?   decimal64
  |  +--ro pin-alert-threshold-max?   decimal64
  +---n psu-pin-high-alert
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro input-power?             decimal64
  |  +--ro pin-alert-threshold-min?   decimal64
  |  +--ro pin-alert-threshold-max?   decimal64
  +---n psu-pin-low-critical
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro input-power?             decimal64
  |  +--ro pin-critical-threshold-min?   decimal64
  |  +--ro pin-critical-threshold-max?   decimal64
  +---n psu-pin-high-critical
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro input-power?             decimal64
  |  +--ro pin-critical-threshold-min?   decimal64
  |  +--ro pin-critical-threshold-max?   decimal64
```


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```
+---n psu-pin-low-alert-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro input-power?               decimal64
|  +--ro pin-alert-threshold-min?   decimal64
|  +--ro pin-alert-threshold-max?   decimal64
+---n psu-pin-high-alert-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro input-power?               decimal64
|  +--ro pin-alert-threshold-min?   decimal64
|  +--ro pin-alert-threshold-max?   decimal64
+---n psu-pin-low-critical-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro input-power?                 decimal64
|  +--ro pin-critical-threshold-min?   decimal64
|  +--ro pin-critical-threshold-max?   decimal64
+---n psu-pin-high-critical-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro input-power?                 decimal64
|  +--ro pin-critical-threshold-min?   decimal64
|  +--ro pin-critical-threshold-max?   decimal64
+---n psu-pout-low-alert
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro power-consumption?         decimal64
|  +--ro pout-alert-threshold-min?   decimal64
|  +--ro pout-alert-threshold-max?   decimal64
+---n psu-pout-high-alert
```

```
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                 cml-data-types:cml_notif_class_t
  |  +--ro name?                       string
  |  +--ro power-consumption?          decimal64
  |  +--ro pout-alert-threshold-min?   decimal64
  |  +--ro pout-alert-threshold-max?   decimal64
  +---n psu-pout-low-critical
  |  +--ro severity?                   cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                   cml-data-types:cml_notif_class_t
  |  +--ro name?                       string
  |  +--ro power-consumption?            decimal64
  |  +--ro pout-critical-threshold-min?   decimal64
  |  +--ro pout-critical-threshold-max?   decimal64
  +---n psu-pout-high-critical
  |  +--ro severity?                   cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                   cml-data-types:cml_notif_class_t
  |  +--ro name?                       string
  |  +--ro power-consumption?            decimal64
  |  +--ro pout-critical-threshold-min?   decimal64
  |  +--ro pout-critical-threshold-max?   decimal64
  +---n psu-pout-low-alert-recovery
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                 cml-data-types:cml_notif_class_t
  |  +--ro name?                       string
  |  +--ro power-consumption?          decimal64
  |  +--ro pout-alert-threshold-min?   decimal64
  |  +--ro pout-alert-threshold-max?   decimal64
  +---n psu-pout-high-alert-recovery
  |  +--ro severity?                 cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                 cml-data-types:cml_notif_class_t
  |  +--ro name?                       string
  |  +--ro power-consumption?          decimal64
  |  +--ro pout-alert-threshold-min?   decimal64
  |  +--ro pout-alert-threshold-max?   decimal64
  +---n psu-pout-low-critical-recovery
  |  +--ro severity?                   cml-data-types:cml_notif_severity_t
```


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```
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro power-consumption?         decimal64
|  +--ro pout-critical-threshold-min?   decimal64
|  +--ro pout-critical-threshold-max?   decimal64
+---n psu-pout-high-critical-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro power-consumption?         decimal64
|  +--ro pout-critical-threshold-min?   decimal64
|  +--ro pout-critical-threshold-max?   decimal64
+---n psu-iout-low-alert
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro output-current?          decimal64
|  +--ro iout-alert-threshold-min?   decimal64
|  +--ro iout-alert-threshold-max?   decimal64
+---n psu-iout-high-alert
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?              cml-data-types:cml_notif_class_t
|  +--ro name?                    string
|  +--ro output-current?          decimal64
|  +--ro iout-alert-threshold-min?   decimal64
|  +--ro iout-alert-threshold-max?   decimal64
+---n psu-iout-low-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro output-current?            decimal64
|  +--ro iout-critical-threshold-min?   decimal64
|  +--ro iout-critical-threshold-max?   decimal64
+---n psu-iout-high-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
```

```
  |  +--ro name?                       string
  |  +--ro output-current?             decimal64
  |  +--ro iout-critical-threshold-min?   decimal64
  |  +--ro iout-critical-threshold-max?   decimal64
  +---n psu-iout-low-alert-recovery
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro output-current?          decimal64
  |  +--ro iout-alert-threshold-min?   decimal64
  |  +--ro iout-alert-threshold-max?   decimal64
  +---n psu-iout-high-alert-recovery
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro output-current?          decimal64
  |  +--ro iout-alert-threshold-min?   decimal64
  |  +--ro iout-alert-threshold-max?   decimal64
  +---n psu-iout-low-critical-recovery
  |  +--ro severity?                   cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                 cml-data-types:cml_notif_class_t
  |  +--ro name?                       string
  |  +--ro output-current?             decimal64
  |  +--ro iout-critical-threshold-min?   decimal64
  |  +--ro iout-critical-threshold-max?   decimal64
  +---n psu-iout-high-critical-recovery
  |  +--ro severity?                   cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                 cml-data-types:cml_notif_class_t
  |  +--ro name?                       string
  |  +--ro output-current?             decimal64
  |  +--ro iout-critical-threshold-min?   decimal64
  |  +--ro iout-critical-threshold-max?   decimal64
  +---n psu-iin-low-alert
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
```


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```
|  +--ro input-current?            decimal64
|  +--ro iin-alert-threshold-min?   decimal64
|  +--ro iin-alert-threshold-max?   decimal64
+---n psu-iin-high-alert
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro input-current?            decimal64
|  +--ro iin-alert-threshold-min?   decimal64
|  +--ro iin-alert-threshold-max?   decimal64
+---n psu-iin-low-critical
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro input-current?             decimal64
|  +--ro iin-critical-threshold-min?   decimal64
|  +--ro iin-critical-threshold-max?   decimal64
+---n psu-iin-high-critical
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro input-current?             decimal64
|  +--ro iin-critical-threshold-min?   decimal64
|  +--ro iin-critical-threshold-max?   decimal64
+---n psu-iin-low-alert-recovery
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro input-current?            decimal64
|  +--ro iin-alert-threshold-min?   decimal64
|  +--ro iin-alert-threshold-max?   decimal64
+---n psu-iin-high-alert-recovery
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro input-current?            decimal64
```

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```
  |  +--ro iin-alert-threshold-min?   decimal64
  |  +--ro iin-alert-threshold-max?   decimal64
  +---n psu-iin-low-critical-recovery
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro input-current?             decimal64
  |  +--ro iin-critical-threshold-min?   decimal64
  |  +--ro iin-critical-threshold-max?   decimal64
  +---n psu-iin-high-critical-recovery
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro input-current?             decimal64
  |  +--ro iin-critical-threshold-min?   decimal64
  |  +--ro iin-critical-threshold-max?   decimal64
  +---n psu-temp1-low-alert
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro temperature-sensor1?       decimal64
  |  +--ro temp1-alert-threshold-min?   decimal64
  |  +--ro temp1-alert-threshold-max?   decimal64
  +---n psu-temp1-high-alert
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro temperature-sensor1?       decimal64
  |  +--ro temp1-alert-threshold-min?   decimal64
  |  +--ro temp1-alert-threshold-max?   decimal64
  +---n psu-temp1-low-critical
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro temperature-sensor1?       decimal64
  |  +--ro temp1-critical-threshold-min?   decimal64
```


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```
|  +--ro temp1-critical-threshold-max?   decimal64
+---n psu-temp1-high-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor1?           decimal64
|  +--ro temp1-critical-threshold-min?   decimal64
|  +--ro temp1-critical-threshold-max?   decimal64
+---n psu-temp1-low-alert-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor1?         decimal64
|  +--ro temp1-alert-threshold-min?   decimal64
|  +--ro temp1-alert-threshold-max?   decimal64
+---n psu-temp1-high-alert-recovery
|  +--ro severity?                cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor1?         decimal64
|  +--ro temp1-alert-threshold-min?   decimal64
|  +--ro temp1-alert-threshold-max?   decimal64
+---n psu-temp1-low-critical-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor1?           decimal64
|  +--ro temp1-critical-threshold-min?   decimal64
|  +--ro temp1-critical-threshold-max?   decimal64
+---n psu-temp1-high-critical-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor1?           decimal64
|  +--ro temp1-critical-threshold-min?   decimal64
|  +--ro temp1-critical-threshold-max?   decimal64
```

```
+---n psu-temp2-low-alert
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-alert-threshold-min?   decimal64
|  +--ro temp2-alert-threshold-max?   decimal64
+---n psu-temp2-high-alert
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-alert-threshold-min?   decimal64
|  +--ro temp2-alert-threshold-max?   decimal64
+---n psu-temp2-low-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-critical-threshold-min?   decimal64
|  +--ro temp2-critical-threshold-max?   decimal64
+---n psu-temp2-high-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-critical-threshold-min?   decimal64
|  +--ro temp2-critical-threshold-max?   decimal64
+---n psu-temp2-low-alert-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-alert-threshold-min?   decimal64
|  +--ro temp2-alert-threshold-max?   decimal64
+---n psu-temp2-high-alert-recovery
```


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```
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-alert-threshold-min?   decimal64
|  +--ro temp2-alert-threshold-max?   decimal64
+---n psu-temp2-low-critical-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-critical-threshold-min?   decimal64
|  +--ro temp2-critical-threshold-max?   decimal64
+---n psu-temp2-high-critical-recovery
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor2?       decimal64
|  +--ro temp2-critical-threshold-min?   decimal64
|  +--ro temp2-critical-threshold-max?   decimal64
+---n psu-temp3-low-alert
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor3?       decimal64
|  +--ro temp3-alert-threshold-min?   decimal64
|  +--ro temp3-alert-threshold-max?   decimal64
+---n psu-temp3-high-alert
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro name?                      string
|  +--ro temperature-sensor3?       decimal64
|  +--ro temp3-alert-threshold-min?   decimal64
|  +--ro temp3-alert-threshold-max?   decimal64
+---n psu-temp3-low-critical
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
```

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```
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro name?                        string
  |  +--ro temperature-sensor3?         decimal64
  |  +--ro temp3-critical-threshold-min?   decimal64
  |  +--ro temp3-critical-threshold-max?   decimal64
  +---n psu-temp3-high-critical
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro name?                        string
  |  +--ro temperature-sensor3?         decimal64
  |  +--ro temp3-critical-threshold-min?   decimal64
  |  +--ro temp3-critical-threshold-max?   decimal64
  +---n psu-temp3-low-alert-recovery
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro temperature-sensor3?       decimal64
  |  +--ro temp3-alert-threshold-min?   decimal64
  |  +--ro temp3-alert-threshold-max?   decimal64
  +---n psu-temp3-high-alert-recovery
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro temperature-sensor3?       decimal64
  |  +--ro temp3-alert-threshold-min?   decimal64
  |  +--ro temp3-alert-threshold-max?   decimal64
  +---n psu-temp3-low-critical-recovery
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro name?                        string
  |  +--ro temperature-sensor3?         decimal64
  |  +--ro temp3-critical-threshold-min?   decimal64
  |  +--ro temp3-critical-threshold-max?   decimal64
  +---n psu-temp3-high-critical-recovery
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
```


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```
|  +--ro name?                        string
|  +--ro temperature-sensor3?         decimal64
|  +--ro temp3-critical-threshold-min?   decimal64
|  +--ro temp3-critical-threshold-max?   decimal64
+---n psu-temp4-low-alert
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro temperature-sensor4?      decimal64
|  +--ro temp4-alert-threshold-min?   decimal64
|  +--ro temp4-alert-threshold-max?   decimal64
+---n psu-temp4-high-alert
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
|  +--ro temperature-sensor4?      decimal64
|  +--ro temp4-alert-threshold-min?   decimal64
|  +--ro temp4-alert-threshold-max?   decimal64
+---n psu-temp4-low-critical
|  +--ro severity?                    cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                        string
|  +--ro temperature-sensor4?         decimal64
|  +--ro temp4-critical-threshold-min?   decimal64
|  +--ro temp4-critical-threshold-max?   decimal64
+---n psu-temp4-high-critical
|  +--ro severity?                    cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                  cml-data-types:cml_notif_class_t
|  +--ro name?                        string
|  +--ro temperature-sensor4?         decimal64
|  +--ro temp4-critical-threshold-min?   decimal64
|  +--ro temp4-critical-threshold-max?   decimal64
+---n psu-temp4-low-alert-recovery
|  +--ro severity?                 cml-data-types:cml_notif_severity_t
|  +--ro eventClass?               cml-data-types:cml_notif_class_t
|  +--ro name?                     string
```

```
  |  +--ro temperature-sensor4?         decimal64
  |  +--ro temp4-alert-threshold-min?   decimal64
  |  +--ro temp4-alert-threshold-max?   decimal64
  +---n psu-temp4-high-alert-recovery
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro name?                        string
  |  +--ro temperature-sensor4?         decimal64
  |  +--ro temp4-alert-threshold-min?   decimal64
  |  +--ro temp4-alert-threshold-max?   decimal64
  +---n psu-temp4-low-critical-recovery
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro name?                        string
  |  +--ro temperature-sensor4?         decimal64
  |  +--ro temp4-critical-threshold-min?   decimal64
  |  +--ro temp4-critical-threshold-max?   decimal64
  +---n psu-temp4-high-critical-recovery
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro name?                        string
  |  +--ro temperature-sensor4?         decimal64
  |  +--ro temp4-critical-threshold-min?   decimal64
  |  +--ro temp4-critical-threshold-max?   decimal64
  +---n fan-status-alarm
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  |  +--ro fan-index?    uint8
  |  +--ro fan-status?   cml_cmm_fan_status_t
  +---n fan-status-alarm-recovery
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  |  +--ro fan-index?    uint8
  |  +--ro fan-status?   cml_cmm_fan_status_t
```


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```
+---n fan-rpm-max-alert
|  +--ro severity?      cml-data-types:cml_notif_severity_t
|  +--ro eventClass?    cml-data-types:cml_notif_class_t
|  +--ro name?          string
|  +--ro maximum-rpm?   uint32
+---n fan-rpm-decreased-notify
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro name?         string
|  +--ro rpm?          uint32
+---n fan-rpm-increased-notify
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro name?         string
|  +--ro rpm?          uint32
+---n fan-tray-inserted
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro name?         string
+---n fan-tray-absent
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro name?         string
+---n hardware-tcam-util-warning-notification {feature-list:HAVE_BROADCOM}?
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro group-id?          uint32
|  +--ro unit?              uint32
|  +--ro core?              uint32
|  +--ro group-name?        cml-data-types:cml_line_t
|  +--ro used-percentage?   int32
|  +--ro free-entries?      int32
+---n hardware-tcam-util-recovery-warning-notification {feature-list:HAVE_BROADCOM}?
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro group-id?          uint32
```

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```
  |  +--ro unit?              uint32
  |  +--ro core?              uint32
  |  +--ro group-name?        cml-data-types:cml_line_t
  |  +--ro used-percentage?   int32
  |  +--ro free-entries?      int32
  +---n hardware-tcam-util-critical-notification {feature-list:HAVE_BROADCOM}?
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro group-id?          uint32
  |  +--ro unit?              uint32
  |  +--ro core?              uint32
  |  +--ro group-name?        cml-data-types:cml_line_t
  |  +--ro used-percentage?   int32
  |  +--ro free-entries?      int32
  +---n hardware-tcam-util-recovery-critical-notification {feature-list:HAVE_BROADCOM}?
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro group-id?          uint32
  |  +--ro unit?              uint32
  |  +--ro core?              uint32
  |  +--ro group-name?        cml-data-types:cml_line_t
  |  +--ro used-percentage?   int32
  |  +--ro free-entries?      int32
  +---n loss-of-input-clock
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro name?                      string
  |  +--ro loss-of-input-clock-status?   uint8
  +---n usb-over-current
  |  +--ro severity?                cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?              cml-data-types:cml_notif_class_t
  |  +--ro name?                    string
  |  +--ro usb-over-current-status?   uint8
  +---n cmis-module-monitor-alarm-notification
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
```


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```
|  +--ro name?               string
|  +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
|  +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
|  +--ro current-value?      decimal64
|  +--ro threshold-minimum?  decimal64
|  +--ro threshold-maximum?  decimal64
+---n cmis-module-monitor-recovery-notification
|  +--ro severity?           cml-data-types:cml_notif_severity_t
|  +--ro eventClass?         cml-data-types:cml_notif_class_t
|  +--ro name?               string
|  +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_module_monitor_id_t
|  +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
|  +--ro current-value?      decimal64
|  +--ro threshold-minimum?  decimal64
|  +--ro threshold-maximum?  decimal64
+---n cmis-module-host-monitor-alarm-notification
|  +--ro severity?           cml-data-types:cml_notif_severity_t
|  +--ro eventClass?         cml-data-types:cml_notif_class_t
|  +--ro number?             uint8
|  +--ro name?               string
|  +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_host_monitor_id_t
|  +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
|  +--ro current-value?      decimal64
|  +--ro threshold-minimum?  decimal64
|  +--ro threshold-maximum?  decimal64
+---n cmis-module-host-monitor-recovery-notification
|  +--ro severity?           cml-data-types:cml_notif_severity_t
|  +--ro eventClass?         cml-data-types:cml_notif_class_t
|  +--ro number?             uint8
|  +--ro name?               string
|  +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_host_monitor_id_t
|  +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
|  +--ro current-value?      decimal64
|  +--ro threshold-minimum?  decimal64
|  +--ro threshold-maximum?  decimal64
+---n cmis-module-host-flag-alarm-notification
```

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```
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro number?       uint8
  |  +--ro name?         string
  |  +--ro alarm-id?     ipi-platform-cmis-types:cmm_cmis_host_flag_id_t
  +---n cmis-module-host-flag-recovery-notification
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro number?       uint8
  |  +--ro name?         string
  |  +--ro alarm-id?     ipi-platform-cmis-types:cmm_cmis_host_flag_id_t
  +---n cmis-module-media-monitor-alarm-notification
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro number?             uint8
  |  +--ro name?               string
  |  +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_media_monitor_id_t
  |  +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
  |  +--ro current-value?      decimal64
  |  +--ro threshold-minimum?  decimal64
  |  +--ro threshold-maximum?  decimal64
  +---n cmis-module-media-monitor-recovery-notification
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro number?             uint8
  |  +--ro name?               string
  |  +--ro alarm-id?           ipi-platform-cmis-types:cmm_cmis_media_monitor_id_t
  |  +--ro alarm-type?         ipi-platform-cmis-types:cmm_cmis_threshold_alarm_t
  |  +--ro current-value?      decimal64
  |  +--ro threshold-minimum?  decimal64
  |  +--ro threshold-maximum?  decimal64
  +---n cmis-module-media-flag-alarm-notification
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro number?       uint8
  |  +--ro name?         string
```


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```
|  +--ro alarm-id?     ipi-platform-cmis-types:cmm_cmis_media_flag_id_t
+---n cmis-module-media-flag-recovery-notification
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro number?       uint8
|  +--ro name?         string
|  +--ro alarm-id?     ipi-platform-cmis-types:cmm_cmis_media_flag_id_t
+---n edfa-alarm-notification
|  +--ro severity?           cml-data-types:cml_notif_severity_t
|  +--ro eventClass?         cml-data-types:cml_notif_class_t
|  +--ro port?               uint8
|  +--ro name?               string
|  +--ro alarm-id?           ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
|  +--ro alarm-type?         ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
|  +--ro current-value?      decimal64
|  +--ro threshold-minimum?  decimal64
|  +--ro threshold-maximum?  decimal64
+---n edfa-alarm-recovery-notification
|  +--ro severity?           cml-data-types:cml_notif_severity_t
|  +--ro eventClass?         cml-data-types:cml_notif_class_t
|  +--ro port?               uint8
|  +--ro name?               string
|  +--ro alarm-id?           ipi-platform-transceiver-types:cmm_edfa_ddm_monitor_id_t
|  +--ro current-value?      decimal64
|  +--ro threshold-minimum?  decimal64
|  +--ro threshold-maximum?  decimal64
+---n smart-sfp-ddm-alarm-notification
|  +--ro severity?           cml-data-types:cml_notif_severity_t
|  +--ro eventClass?         cml-data-types:cml_notif_class_t
|  +--ro port?               uint8
|  +--ro name?               string
|  +--ro alarm-id?           ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
|  +--ro alarm-type?         ipi-platform-transceiver-types:cmm_ddm_threshold_alarm_t
|  +--ro current-value?      decimal64
|  +--ro threshold-minimum?  decimal64
|  +--ro threshold-maximum?  decimal64
```

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```
  +---n smart-sfp-ddm-alarm-recovery-notification
  |  +--ro severity?           cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?         cml-data-types:cml_notif_class_t
  |  +--ro port?               uint8
  |  +--ro name?               string
  |  +--ro alarm-id?           ipi-platform-transceiver-types:cmm_smart_sfp_ddm_monitor_id_t
  |  +--ro current-value?      decimal64
  |  +--ro threshold-minimum?  decimal64
  |  +--ro threshold-maximum?  decimal64
  +---n smart-sfp-descrete-alarm-notification
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro port?            uint8
  |  +--ro name?            string
  |  +--ro alarm-id?        ipi-platform-transceiver-types:cmm_smart_sfp_protocol_alarm_id_t
  |  +--ro current-status?  ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
  +---n smart-sfp-descrete-alarm-recovery-notification
     +--ro severity?        cml-data-types:cml_notif_severity_t
     +--ro eventClass?      cml-data-types:cml_notif_class_t
     +--ro port?            uint8
     +--ro name?            string
     +--ro alarm-id?        ipi-platform-transceiver-types:cmm_smart_sfp_protocol_alarm_id_t
     +--ro current-status?  ipi-platform-transceiver-types:cmm_smart_sfp_protocol_status_t
```

ipi-port-breakout

```
 +--rw port-breakout
    +--rw breakouts
    |  +--rw breakout* [interface]
    |     +--rw interface    -> ../config/interface
    |     +--rw config
    |     |  +--rw interface?   string
    |     |  +--rw mode         ipi-port-breakout-types:port_breakout_mode_t
    |     |  +--rw serdes?      ipi-port-breakout-types:port_breakout_serdes_type_t
```


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```
|    +--ro state
|       +--ro interface?   string
|       +--ro mode         ipi-port-breakout-types:port_breakout_mode_t
|       +--ro serdes?      ipi-port-breakout-types:port_breakout_serdes_type_t
|       +--ro block?       uint8
+--rw groups-speed
+--rw interfaces
  +--rw interface* [name]
     +--rw name      -> ../config/name
     +--rw config
     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
     |  +--rw mode?   ipi-port-breakout-types:port_breakout_if_mode_t
     +--ro state
        +--ro name?   -> /ipi-interface:interfaces/interface/name
        +--ro mode?   ipi-port-breakout-types:port_breakout_if_mode_t
```

ipi-port-mirror

```
+--rw port-mirror
  +--rw sessions
  |  +--rw session* [id] {feature-list:HAVE_ADVANCE_MIRROR}?
  |     +--rw id                  -> ../config/id
  |     +--rw config
  |     |  +--rw id?            uint32
  |     |  +--rw type           ipi-port-mirror-types:pmirror_sess_type_t
  |     |  +--rw description?   cml-data-types:cml_line_t
  |     +--ro state
  |     |  +--ro counters
  |     |  |  +--ro filter-count?      yang:counter32
  |     |  |  +--ro tx-source-count?   yang:counter32
  |     |  +--ro id?            uint32
  |     |  +--ro type           ipi-port-mirror-types:pmirror_sess_type_t
  |     |  +--ro description?   cml-data-types:cml_line_t
  |     +--rw destination
  |     |  +--rw local
```

```
|    | | +--rw config
|    | | |  +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
|    | | +--ro state
|    | |    +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
|    | +--rw remote
|    | | +--rw config!
|    | | |  +--rw vlan-id                    uint16
|    | | |  +--rw reflector-interface-name    -> /ipi-interface:interfaces/interface/name
|    | | +--ro state
|    | |    +--ro vlan-id                    uint16
|    | |    +--ro reflector-interface-name    -> /ipi-interface:interfaces/interface/name
|    | +--rw erspan
|    |    +--rw config
|    |    |  +--rw name?   string
|    |    +--ro state
|    |       +--ro name?   string
|    +--rw source-interfaces
|    | +--rw source-interface* [name]
|    |    +--rw name      -> ../config/name
|    |    +--rw config!
|    |    |  +--rw name?        -> /ipi-interface:interfaces/interface/name
|    |    |  +--rw direction    ipi-port-mirror-types:pmirror_dir_t
|    |    +--ro state
|    |       +--ro name?        -> /ipi-interface:interfaces/interface/name
|    |       +--ro direction    ipi-port-mirror-types:pmirror_dir_t
|    +--rw session-filters
|    | +--rw session-filter* [sequence-id]
|    |    +--rw sequence-id    -> ../config/sequence-id
|    |    +--rw config
|    |    |  +--rw sequence-id?   uint32
|    |    +--ro state
|    |    |  +--ro sequence-id?   uint32
|    |    +--rw filters
|    |       +--rw config
|    |       |  +--rw frame-type?                    ipi-port-mirror-types:pmirror_ethertype_t
|    |       |  +--rw arp-type?                      ipi-port-mirror-types:pmirror_arp_type_t
```


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```
|   |     | +--rw sender-ip-address?                inet:ipv4-address
|   |     | +--rw target-ip-address?                inet:ipv4-address
|   |     | +--rw cos?                              uint8
|   |     | +--rw vlan?                             cml-data-types:cml_range_t
|   |     | +--rw source-ipv4-address?              cml-data-types:cml_ipv4_addr_or_prefix_t
|   |     | +--rw destination-ipv4-address?         cml-data-types:cml_ipv4_addr_or_prefix_t
|   |     | +--rw source-ipv6-address?              cml-data-types:cml_ipv6_prefix_t
|   |     | +--rw destination-ipv6-address?         cml-data-types:cml_ipv6_prefix_t
|   |     | +--rw (source-mac-options)?
|   |     | | +--:(host-mac)
|   |     | | | +--rw source-mac-address-host?      ipi-port-mirror-types:pmirror_mac_addr_t
|   |     | | +--:(mac-with-mask)
|   |     | |    +--rw source-mac-address?        ipi-port-mirror-types:pmirror_mac_addr_t
|   |     | |    +--rw source-mac-mask?           ipi-port-mirror-types:pmirror_mac_addr_t
|   |     | +--rw (destination-mac-options)?
|   |     |    +--:(host-mac)
|   |     |    | +--rw destination-mac-address-host?  ipi-port-mirror-types:pmirror_mac_addr_t
|   |     |    +--:(mac-with-mask)
|   |     |       +--rw destination-mac-address?     ipi-port-mirror-types:pmirror_mac_addr_t
|   |     |       +--rw destination-mac-mask?        ipi-port-mirror-types:pmirror_mac_addr_t
|   |     +--ro state
|   |        +--ro frame-type?                  ipi-port-mirror-types:pmirror_ethertype_t
|   |        +--ro arp-type?                    ipi-port-mirror-types:pmirror_arp_type_t
|   |        +--ro sender-ip-address?           inet:ipv4-address
|   |        +--ro target-ip-address?           inet:ipv4-address
|   |        +--ro cos?                         uint8
|   |        +--ro vlan?                        cml-data-types:cml_range_t
|   |        +--ro source-ipv4-address?         cml-data-types:cml_ipv4_addr_or_prefix_t
|   |        +--ro destination-ipv4-address?    cml-data-types:cml_ipv4_addr_or_prefix_t
|   |        +--ro source-ipv6-address?         cml-data-types:cml_ipv6_prefix_t
|   |        +--ro destination-ipv6-address?    cml-data-types:cml_ipv6_prefix_t
|   |        +--ro (source-mac-options)?
|   |        | +--:(host-mac)
|   |        | | +--ro source-mac-address-host?     ipi-port-mirror-types:pmirror_mac_addr_t
|   |        | +--:(mac-with-mask)
|   |        |    +--ro source-mac-address?       ipi-port-mirror-types:pmirror_mac_addr_t
```

```
|    |          |    +--ro source-mac-mask?              ipi-port-mirror-types:pmirror_mac_addr_t
|    |          +--ro (destination-mac-options)?
|    |            +--:(host-mac)
|    |            | +--ro destination-mac-address-host?   ipi-port-mirror-types:pmirror_mac_addr_t
|    |            +--:(mac-with-mask)
|    |              +--ro destination-mac-address?       ipi-port-mirror-types:pmirror_mac_addr_t
|    |              +--ro destination-mac-mask?          ipi-port-mirror-types:pmirror_mac_addr_t
|    +--rw source-vlans
|    | +--rw config
|    | | +--rw source-vlan?   cml-data-types:cml_range_t
|    | +--ro state
|    |   +--ro source-vlan?   cml-data-types:cml_range_t
|    +--rw session-enabled
|      +--rw config
|      | +--rw enabled?   empty
|      +--ro state
|        +--ro enabled?   empty
+--rw interfaces
+--rw erspan-destinations
| +--rw erspan-destination* [name] {feature-list:HAVE_ADVANCE_MIRROR}?
|    +--rw name      -> ../config/name
|    +--rw config!
|    | +--rw name?             string
|    | +--rw dest-ip?          inet:ip-address
|    | +--rw vrf-name?         string
|    | +--rw erspan-id?        uint32
|    | +--rw origin-ip?        inet:ip-address
|    | +--rw ttl?              uint16
|    | +--rw dscp?             uint8
|    | +--rw enable-truncate?   boolean
|    | +--rw erspan-type?       ipi-port-mirror-types:pmirror_erspan_type_t
|    | +--rw hardware-id?       uint8
|    | +--rw switch-id?         uint16
|    +--ro state
|      +--ro name?             string
|      +--ro dest-ip?          inet:ip-address
```


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```
|       +--ro vrf-name?          string
|       +--ro erspan-id?         uint32
|       +--ro origin-ip?         inet:ip-address
|       +--ro ttl?               uint16
|       +--ro dscp?              uint8
|       +--ro enable-truncate?   boolean
|       +--ro erspan-type?       ipi-port-mirror-types:pmirror_erspan_type_t
|       +--ro hardware-id?       uint8
|       +--ro switch-id?         uint16
+--rw global
   +--rw config
   +--ro state
```

ipi-port-vlan

```
augment /ipi-interface:interfaces/ipi-interface:interface:
  +--rw port-vlan
     +--rw global
     |  +--rw config
     |  |  +--rw isolated-vlan-id?           cml-data-types:cml_range_t {feature-list:NOT_HAVE_SWFWDR}?
     |  |  +--rw cvlan-registration-table?   -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/
ipi-vlan:cvlan-registration-tables/cvlan-registration-table/config/table-name {feature-list:HAVE_PROVIDER_BRIDGE}?
     |  +--ro state
     |     +--ro isolated-vlan-id?           cml-data-types:cml_range_t {feature-list:NOT_HAVE_SWFWDR}?
     |     +--ro cvlan-registration-table?   -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/
ipi-vlan:cvlan-registration-tables/cvlan-registration-table/config/table-name {feature-list:HAVE_PROVIDER_BRIDGE}?
     +--rw ennis
     +--rw switched-vlans
     |  +--rw switched-vlan* [interface-mode]
     |     +--rw interface-mode              -> ../config/interface-mode
     |     +--rw config
     |     |  +--rw interface-mode?          ipi-port-vlan-types:port_vlan_switch_port_mode_t
     |     |  +--rw acceptable-frame-type?   ipi-port-vlan-types:port_vlan_frame_type_t
     |     |  +--rw disable-native-vlan?     empty
```

```
|    | +--rw remove-default-vlan?     empty
|    +--ro state
|    | +--ro interface-mode?          ipi-port-vlan-types:port_vlan_switch_port_mode_t
|    | +--ro acceptable-frame-type?   ipi-port-vlan-types:port_vlan_frame_type_t
|    | +--ro disable-native-vlan?     empty
|    | +--ro remove-default-vlan?     empty
|    +--rw vlans
|    | +--rw config
|    | | +--rw vlan-id?          uint16
|    | | +--rw native-vlan-id?   uint16
|    | +--ro state
|    |    +--ro vlan-id?          uint16
|    |    +--ro native-vlan-id?   uint16
|    +--rw allowed-vlan
|    | +--rw config
|    | | +--rw allowed-vlan-id?                cml-data-types:cml_range_t
|    | | +--rw egress-tagging-disabled-vlans?   cml-data-types:cml_range_t
|    | +--ro state
|    |    +--ro allowed-vlan-id?                cml-data-types:cml_range_t
|    |    +--ro egress-tagging-disabled-vlans?   cml-data-types:cml_range_t
|    +--rw ce-vlan-translations
|    +--rw svlan-translations
|    | +--rw svlan-translation* [original-svlan-id] {feature-list:HAVE_PROVIDER_BRIDGE}?
|    |    +--rw original-svlan-id    -> ../config/original-svlan-id
|    |    +--rw config
|    |    | +--rw translated-svlan-id?   uint16
|    |    | +--rw original-svlan-id?     uint16
|    |    | +--rw translated-cvlan-id?   uint16
|    |    +--ro state
|    |       +--ro translated-svlan-id?   uint16
|    |       +--ro original-svlan-id?     uint16
|    |       +--ro translated-cvlan-id?   uint16
|    +--rw cvlan-svlan-translations
|       +--rw cvlan-svlan-translation* [cvlan-id svlan-id] {feature-list:HAVE_PROVIDER_BRIDGE}?
|          +--rw cvlan-id    -> ../config/cvlan-id
|          +--rw svlan-id    -> ../config/svlan-id
```


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```
|          +--rw config
|          | +--rw cvlan-id?              uint16
|          | +--rw svlan-id?              uint16
|          | +--rw translated-cvlan-id?   uint16
|          | +--rw translated-svlan-id    uint16
|          +--ro state
|            +--ro cvlan-id?              uint16
|            +--ro svlan-id?              uint16
|            +--ro translated-cvlan-id?   uint16
|            +--ro translated-svlan-id    uint16
+--rw port-security
| +--rw config!
| | +--rw mode            ipi-port-vlan-types:port_vlan_port_sec_mode_t
| | +--rw maximum-limit?   uint16
| | +--rw logging?         empty
| +--ro state
| | +--ro mode            ipi-port-vlan-types:port_vlan_port_sec_mode_t
| | +--ro maximum-limit?   uint16
| | +--ro logging?         empty
| +--rw secure-mac {feature-list:HAVE_PROVIDER_BRIDGE}?
|    +--rw default-vlan-mappings
|    | +--rw default-vlan-mapping* [mac-address]
|    |    +--rw mac-address    -> ../config/mac-address
|    |    +--rw config
|    |    | +--rw mac-address?   cml-data-types:cml_mac_addr_t
|    |    +--ro state
|    |       +--ro mac-address?   cml-data-types:cml_mac_addr_t
|    +--rw vlan-mappings
|    | +--rw vlan-mapping* [mac-address]
|    |    +--rw mac-address    -> ../config/mac-address
|    |    +--rw config
|    |    | +--rw mac-address?   cml-data-types:cml_mac_addr_t
|    |    | +--rw cvlan-id*      uint16
|    |    | +--rw svlan-id*      uint16
|    |    +--ro state
|    |       +--ro mac-address?   cml-data-types:cml_mac_addr_t
```

```
    |    |       +--ro cvlan-id*      uint16
    |    |       +--ro svlan-id*      uint16
    |    +--rw cvlan-svlan-mappings
    |       +--rw cvlan-svlan-mapping* [mac-address cvlan-id svlan-id]
    |          +--rw mac-address    -> ../config/mac-address
    |          +--rw cvlan-id       -> ../config/cvlan-id
    |          +--rw svlan-id       -> ../config/svlan-id
    |          +--rw config
    |          |  +--rw mac-address?   cml-data-types:cml_mac_addr_t
    |          |  +--rw cvlan-id?      uint16
    |          |  +--rw svlan-id?      uint16
    |          +--ro state
    |             +--ro mac-address?   cml-data-types:cml_mac_addr_t
    |             +--ro cvlan-id?      uint16
    |             +--ro svlan-id?      uint16
    +--rw private-vlan {feature-list:HAVE_PVLAN}?
    |  +--rw config!
    |  |  +--rw mode    ipi-port-vlan-types:port_vlan_pvlan_mode_t
    |  +--ro state
    |  |  +--ro mode    ipi-port-vlan-types:port_vlan_pvlan_mode_t
    |  +--rw associations
    |     +--rw association* [vlan-id]
    |        +--rw vlan-id    -> ../config/vlan-id
    |        +--rw config
    |        |  +--rw vlan-id?                  uint16
    |        |  +--rw associate-vlan-id?        uint16
    |        |  +--rw mapping-vlan-id?          cml-data-types:cml_range_t
    |        |  +--rw association-trunk-vlan-id?   uint16
    |        +--ro state
    |           +--ro vlan-id?                 uint16
    |           +--ro associate-vlan-id?       uint16
    |           +--ro mapping-vlan-id?         cml-data-types:cml_range_t
    |           +--ro association-trunk-vlan-id?   uint16
    +--rw oep-mappings
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:
  +--rw vlan-static-fdb
```


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```
  +--rw entries
    +--rw entry* [mac-address vlan-id]
      +--rw mac-address    -> ../config/mac-address
      +--rw vlan-id        -> ../config/vlan-id
      +--rw config
      |  +--rw interface-name    -> /ipi-interface:interfaces/interface/name
      |  +--rw mac-address?      cml-data-types:cml_mac_addr_t
      |  +--rw action            ipi-port-vlan-types:port_vlan_l2_fdb_action_t
      |  +--rw vlan-id?          uint16
      |  +--rw svlan-id?         uint16 {feature-list:HAVE_PB_STATIC_FDB_CUSTOM_CONFIG}?
      +--ro state
        +--ro interface-name    -> /ipi-interface:interfaces/interface/name
        +--ro mac-address?      cml-data-types:cml_mac_addr_t
        +--ro action            ipi-port-vlan-types:port_vlan_l2_fdb_action_t
        +--ro vlan-id?          uint16
        +--ro svlan-id?         uint16 {feature-list:HAVE_PB_STATIC_FDB_CUSTOM_CONFIG}?
```

ipi-prefix-group

```
+--rw prefix-groups
  +--rw prefix-group* [type name]
    +--rw type            -> ../config/type
    +--rw name            -> ../config/name
    +--rw config
    |  +--rw type?          ipi-prefix-group-types:prefix_group_type_t
    |  +--rw name?          string
    |  +--rw description?   cml-data-types:cml_line_t
    +--ro state
    |  +--ro type?          ipi-prefix-group-types:prefix_group_type_t
    |  +--ro name?          string
    |  +--ro description?   cml-data-types:cml_line_t
    +--rw ipv4-entries
    |  +--rw config
    |  |  +--rw ipv4-entry*              cml-data-types:cml_ipv4_addr_prefix_t
    |  |  +--rw ipv4-match-xpath-entry?   string
```

```
|  +--ro state
|     +--ro ipv4-entry*              cml-data-types:cml_ipv4_addr_prefix_t
|     +--ro ipv4-match-xpath-entry?   string
|     +--ro ipv4-prefixes*           cml-data-types:cml_ipv4_addr_prefix_t
+--rw ipv6-entries {feature-list:HAVE_IPV6}?
   +--rw config
   |  +--rw ipv6-entry*              cml-data-types:cml_ipv6_prefix_t
   |  +--rw ipv6-match-xpath-entry?   string
   +--ro state
      +--ro ipv6-entry*              cml-data-types:cml_ipv6_prefix_t
      +--ro ipv6-match-xpath-entry?   string
      +--ro ipv6-prefixes*           cml-data-types:cml_ipv6_prefix_t
```

ipi-prefix-list

```
+--rw prefixes
   +--rw prefix* [prefix-list-name prefix-list-type]
      +--rw prefix-list-name    -> ../config/prefix-list-name
      +--rw prefix-list-type    -> ../config/prefix-list-type
      +--rw config
      |  +--rw prefix-list-name?   string
      |  +--rw prefix-list-type?   ipi-prefix-list-types:prefix_list_type_t
      |  +--rw description?        cml-data-types:cml_line_t
      +--ro state
      |  +--ro prefix-list-name?   string
      |  +--ro prefix-list-type?   ipi-prefix-list-types:prefix_list_type_t
      |  +--ro description?        cml-data-types:cml_line_t
      +--rw prefix-entries
         +--rw prefix-entry* [sequence-id]
            +--rw sequence-id    -> ../config/sequence-id
            +--rw config
            |  +--rw sequence-id?   uint32
            +--ro state
            |  +--ro sequence-id?   uint32
            +--rw ipv4
```


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```
|  +--rw entry* [action prefix-addr]
|     +--rw action         -> ../config/action
|     +--rw prefix-addr    -> ../config/prefix-addr
|     +--rw config
|     |  +--rw action?                      ipi-prefix-list-types:prefix_list_action_t
|     |  +--rw minimum-prefix-length-match?   uint8
|     |  +--rw maximum-prefix-length-match?   uint8
|     |  +--rw prefix-addr?                 ipi-prefix-list-types:prefix_list_ipv4_network_t
|     |  +--rw exact-prefix-length-match?     uint8
|     +--ro state
|        +--ro action?                      ipi-prefix-list-types:prefix_list_action_t
|        +--ro minimum-prefix-length-match?   uint8
|        +--ro maximum-prefix-length-match?   uint8
|        +--ro prefix-addr?                 ipi-prefix-list-types:prefix_list_ipv4_network_t
|        +--ro exact-prefix-length-match?     uint8
+--rw ipv6 {feature-list:HAVE_IPV6}?
   +--rw entry* [action ipv6-prefix-addr] {feature-list:HAVE_IPV6}?
      +--rw action              -> ../config/action
      +--rw ipv6-prefix-addr    -> ../config/ipv6-prefix-addr
      +--rw config {feature-list:HAVE_IPV6}?
      |  +--rw ipv6-prefix-addr?            ipi-prefix-list-types:prefix_list_ipv6_network_t
      |  +--rw action?                      ipi-prefix-list-types:prefix_list_action_t
      |  +--rw minimum-prefix-length-match?   uint8
      |  +--rw maximum-prefix-length-match?   uint8
      |  +--rw exact-prefix-length-match?     uint8
      +--ro state {feature-list:HAVE_IPV6}?
         +--ro ipv6-prefix-addr?            ipi-prefix-list-types:prefix_list_ipv6_network_t
         +--ro action?                      ipi-prefix-list-types:prefix_list_action_t
         +--ro minimum-prefix-length-match?   uint8
         +--ro maximum-prefix-length-match?   uint8
         +--ro exact-prefix-length-match?     uint8

rpcs:
  +---x clear-prefix-list-all
  +---x clear-prefix-list-ipv6-all
  +---x clear-ipv4-prefix-list
```

```
  |  +---w input
  |     +---w prefix-list-name    string
  |     +---w prefix?             cml-data-types:cml_ipv4_addr_prefix_t
  +---x clear-ipv6-prefix-list {feature-list:HAVE_IPV6}?
     +---w input
        +---w prefix-list-name    string
        +---w prefix?             cml-data-types:cml_ipv6_prefix_t
```

ipi-ptp

```
 +--rw ptp {feature-list:HAVE_PTP_HW_OFFLOAD}?
    +--rw ptp-instances
    |  +--rw ptp-instance* [instance-type]
    |     +--rw instance-type         -> ../config/instance-type
    |     +--rw config
    |     |  +--rw instance-type?   uint8
    |     |  +--rw profile          ipi-ptp-types:ptp_profile_t
    |     +--rw tlv {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
    |     |  +--rw config
    |     |  |  +--rw color-frame?   empty
    |     |  |  +--rw drop-frame?    empty
    |     |  |  +--rw numerator?     uint32
    |     |  |  +--rw denominator?   uint32
    |     |  +--ro state
    |     |     +--ro color-frame?   empty
    |     |     +--ro drop-frame?    empty
    |     |     +--ro numerator?     uint32
    |     |     +--ro denominator?   uint32
    |     +--rw default-data-set {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |     |  +--rw config
    |     |  |  +--rw l2-pkt-forward?                  empty
    |     |  |  +--rw domain?                          uint8
    |     |  |  +--rw servo-config?                    ipi-ptp-types:ptp_servo_config_type_t
    |     |  |  +--rw external-clock-holdover-duration?   uint16
```


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```
|  |  +--rw system-clock-sync?              uint16
|  |  +--rw ptp-clock-sync?                 empty
|  |  +--rw ptsf-wtr-duration?              uint16
|  |  +--rw g8265p1-wtr-duration?           uint64
|  |  +--rw g8265p1-option?                 ipi-ptp-types:ptp_g8265p1_option_type_t
|  |  +--rw reserved-vlan-base?             uint16
|  |  +--rw two-step?                       empty {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?
|  |  +--rw clock-type-tgm?                 ipi-ptp-types:ptp_clock_type_tgm_t
|  |  +--rw one-way?                        empty
|  |  +--rw number-ports?                   uint8
|  |  +--rw pps-pulse-offset?               int16
|  |  +--rw pps-in-smx-tod-type?            ipi-ptp-types:ptp_1pss_in_smx_tod_type_t
|  |  +--rw priority-1?                     uint8
|  |  +--rw priority-2?                     uint8
|  |  +--rw slave-only?                     empty
|  |  +--rw local-priority?                 uint8
|  |  +--rw max-steps-removed?              uint8
|  |  +--rw start-boundary-hops?            uint8
|  |  +--ro state
|  |  |  +--ro l2-pkt-forward?              empty
|  |  |  +--ro domain?                      uint8
|  |  |  +--ro servo-config?                ipi-ptp-types:ptp_servo_config_type_t
|  |  |  +--ro external-clock-holdover-duration?   uint16
|  |  |  +--ro system-clock-sync?           uint16
|  |  |  +--ro ptp-clock-sync?              empty
|  |  |  +--ro ptsf-wtr-duration?           uint16
|  |  |  +--ro g8265p1-wtr-duration?        uint64
|  |  |  +--ro g8265p1-option?              ipi-ptp-types:ptp_g8265p1_option_type_t
|  |  |  +--ro reserved-vlan-base?          uint16
|  |  |  +--ro two-step?                    empty {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?
|  |  |  +--ro clock-type-tgm?              ipi-ptp-types:ptp_clock_type_tgm_t
|  |  |  +--ro one-way?                     empty
|  |  |  +--ro number-ports?                uint8
|  |  |  +--ro pps-pulse-offset?            int16
|  |  |  +--ro pps-in-smx-tod-type?         ipi-ptp-types:ptp_1pss_in_smx_tod_type_t
```

```
|    | | +--ro priority-1?                    uint8
|    | | +--ro priority-2?                    uint8
|    | | +--ro slave-only?                    empty
|    | | +--ro local-priority?                uint8
|    | | +--ro max-steps-removed?             uint8
|    | | +--ro start-boundary-hops?           uint8
|    | | +--ro clock-identity?                string
|    | +--rw servo-history
|    | | +--rw config!
|    | | | +--rw servo-history-enabled    empty
|    | | | +--rw servo-history-interval   uint8
|    | | +--ro state
|    | |    +--ro servo-history-enabled    empty
|    | |    +--ro servo-history-interval   uint8
|    | +--rw clock-quality
|    | | +--rw config
|    | | | +--rw clock-class?               uint8
|    | | | +--rw clock-accuracy?            uint8
|    | | | +--rw offset-scaled-log-variance?  uint16
|    | | +--ro state
|    | |    +--ro clock-class?               uint8
|    | |    +--ro clock-accuracy?            uint8
|    | |    +--ro offset-scaled-log-variance?  uint16
|    | +--rw gps-offset
|    |    +--rw config!
|    |    | +--rw offset-seconds        int8
|    |    | +--rw offset-nano-seconds   int16
|    |    +--ro state
|    |       +--ro offset-seconds        int8
|    |       +--ro offset-nano-seconds   int16
|    +--rw ports {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
|    | +--rw port* [port-number]
|    |    +--rw port-number             -> ../config/port-number
|    |    +--rw config
|    |    | +--rw port-number?                uint16
|    |    | +--rw local-priority?             uint8
```


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```
|   |   | +--rw description?                    cml-data-types:cml_line_t
|   |   | +--rw transport-type?                 ipi-ptp-types:ptp_encap_type_t
|   |   | +--rw transport-v6-multicast-type?    ipi-ptp-types:ptp_v6_multicast_type_t
|   |   | +--rw non-forwardable-mac-addr?       empty
|   |   | +--rw log-min-delay-req-interval?     int8
|   |   | +--rw log-announce-interval?          int8
|   |   | +--rw announce-receipt-timeout?       uint8
|   |   | +--rw log-sync-interval?              int8
|   |   | +--rw time-to-live?                   uint8
|   |   | +--rw ip-dscp?                        uint8
|   |   | +--rw unicast-grant-duration?         uint16
|   |   | +--rw delay-mechanism?                ipi-ptp-types:ptp_delay_mechanism_t
|   |   | +--rw version-number?                 int8
|   |   | +--rw master-only?                    empty
|   |   | +--rw grandmaster-priority-2?         uint8
|   |   | +--rw append?                         empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
|   |   | +--rw process?                        empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
|   |   | +--rw source-ipv6-link-local-address? empty {feature-list:HAVE_IPV6}?
|   |   | +--rw source-ipv6-interface-address?  string {feature-list:HAVE_IPV6}?
|   |   | +--rw source-ipv4-interface-address?  string
|   |   | +--rw source-ipv6-address?            inet:ipv6-address {feature-list:HAVE_IPV6}?
|   |   | +--rw source-ipv4-address?            inet:ipv4-address
|   |   +--ro state
|   |   | +--ro port-number?                    uint16
|   |   | +--ro local-priority?                 uint8
|   |   | +--ro description?                    cml-data-types:cml_line_t
|   |   | +--ro transport-type?                 ipi-ptp-types:ptp_encap_type_t
|   |   | +--ro transport-v6-multicast-type?    ipi-ptp-types:ptp_v6_multicast_type_t
|   |   | +--ro non-forwardable-mac-addr?       empty
|   |   | +--ro log-min-delay-req-interval?     int8
|   |   | +--ro log-announce-interval?          int8
|   |   | +--ro announce-receipt-timeout?       uint8
|   |   | +--ro log-sync-interval?              int8
|   |   | +--ro time-to-live?                   uint8
|   |   | +--ro ip-dscp?                        uint8
|   |   | +--ro unicast-grant-duration?         uint16
```

```
|    |    | +--ro delay-mechanism?              ipi-ptp-types:ptp_delay_mechanism_t
|    |    | +--ro version-number?               int8
|    |    | +--ro master-only?                  empty
|    |    | +--ro grandmaster-priority-2?       uint8
|    |    | +--ro append?                       empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
|    |    | +--ro process?                      empty {feature-list:HAVE_PTP_HW_OFFLOAD_CUSTOM1}?
|    |    | +--ro port-state?                   ipi-ptp-types:ptp_port_state_t
|    |    | +--ro peer-mean-path-delay?         ipi-ptp-types:ptp_time_interval_t
|    |    | +--ro signal-fail?                  boolean
|    |    | +--ro port-identity?                string
|    |    +--rw clock-quality
|    |    | +--rw config
|    |    | | +--rw clock-class?                uint8
|    |    | | +--rw clock-accuracy?             uint8
|    |    | | +--rw offset-scaled-log-variance?   uint16
|    |    | +--ro state
|    |    |    +--ro clock-class?                uint8
|    |    |    +--ro clock-accuracy?             uint8
|    |    |    +--ro offset-scaled-log-variance?   uint16
|    |    +--rw asymmetry-delay
|    |    | +--rw config!
|    |    | | +--rw delay-asymmetry-msec    int8
|    |    | | +--rw delay-asymmetry-nsec    int32
|    |    | +--ro state
|    |    |    +--ro delay-asymmetry-msec    int8
|    |    |    +--ro delay-asymmetry-nsec    int32
|    |    +--rw network-interfaces
|    |    | +--rw network-interface* [network-interface]
|    |    |    +--rw network-interface    -> ../config/network-interface
|    |    |    +--rw config
|    |    |    | +--rw network-interface?             ipi-ptp-types:ptp_network_interface_t
|    |    |    | +--rw vlan-physical-interface-name?   cml-data-types:cml_ifname_t
|    |    |    | +--rw vlan-physical-dot1q-vlan-id?    uint16
|    |    |    | +--rw dot1q-vlan-id?                 uint16
|    |    |    | +--rw dot1ad-vlan-id?                uint16
|    |    |    | +--rw inner-dot1q-vlan-id?           uint16
```


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```
|    |    |    +--ro state
|    |    |       +--ro network-interface?             ipi-ptp-types:ptp_network_interface_t
|    |    |       +--ro vlan-physical-interface-name?   cml-data-types:cml_ifname_t
|    |    |       +--ro vlan-physical-dot1q-vlan-id?    uint16
|    |    |       +--ro dot1q-vlan-id?                  uint16
|    |    |       +--ro dot1ad-vlan-id?                 uint16
|    |    |       +--ro inner-dot1q-vlan-id?            uint16
|    |    +--rw master-ipv4-addresses
|    |    |  +--rw master-ipv4-address* [master-clock-source-ipv4-address]
|    |    |     +--rw master-clock-source-ipv4-address    -> ../config/master-clock-source-ipv4-address
|    |    |     +--rw config
|    |    |     |  +--rw master-clock-source-ipv4-address?   inet:ipv4-address
|    |    |     |  +--rw master-ipv4-address-priority?       uint8
|    |    |     +--ro state
|    |    |        +--ro master-clock-source-ipv4-address?   inet:ipv4-address
|    |    |        +--ro master-ipv4-address-priority?       uint8
|    |    +--rw master-ipv6-addresses
|    |    |  +--rw master-ipv6-address* [master-clock-source-ipv6-address]
|    |    |     +--rw master-clock-source-ipv6-address    -> ../config/master-clock-source-ipv6-address
|    |    |     +--rw config
|    |    |     |  +--rw master-clock-source-ipv6-address?   inet:ipv6-address
|    |    |     |  +--rw master-ipv6-address-priority?       uint8
|    |    |     +--ro state
|    |    |        +--ro master-clock-source-ipv6-address?   inet:ipv6-address
|    |    |        +--ro master-ipv6-address-priority?       uint8
|    |    +--rw statistics
|    |    |  +--ro state
|    |    |     +--ro packets-transmitted?   yang:counter32
|    |    |     +--ro packets-received?      yang:counter32
|    |    |     +--ro packets-discarded?     yang:counter32
|    |    +--ro foreign-data-sets
|    |    |  +--ro foreign-data-set* [foreign-master-id]
|    |    |     +--ro foreign-master-id    -> ../state/foreign-master-id
|    |    |     +--ro state
|    |    |        +--ro foreign-master-id?           uint8
|    |    |        +--ro current?                     boolean
```

```
|   |   |       +--ro ipv4-address?               inet:ipv4-address
|   |   |       +--ro ipv6-address?               inet:ipv6-address {feature-list:HAVE_IPV6}?
|   |   |       +--ro l2-address?                 yang:mac-address
|   |   |       +--ro clock-identity?             string
|   |   |       +--ro port-id?                    string
|   |   |       +--ro clock-class?                uint8
|   |   |       +--ro clock-accuracy?             uint8
|   |   |       +--ro offset-scaled-log-variance? uint16
|   |   |       +--ro priority-1?                 uint8
|   |   |       +--ro priority-2?                 uint8
|   |   |       +--ro steps-removed?              uint16
|   |   |       +--ro pdv-scaled-allan-variance?  uint64
|   |   +--ro peer-data-sets
|   |   |  +--ro peer-data-set* [peer-id]
|   |   |     +--ro peer-id    -> ../state/peer-id
|   |   |     +--ro state
|   |   |        +--ro peer-id?                   uint8
|   |   |        +--ro ipv4-address?              inet:ipv4-address
|   |   |        +--ro ipv6-address?              inet:ipv6-address {feature-list:HAVE_IPV6}?
|   |   |        +--ro l2-address?                yang:mac-address
|   |   |        +--ro clock-identity?            string
|   |   |        +--ro received-announce?         yang:counter64
|   |   |        +--ro received-sync?             yang:counter64
|   |   |        +--ro received-followup?         yang:counter64
|   |   |        +--ro received-reject?           yang:counter64
|   |   |        +--ro received-delay-request?    yang:counter64
|   |   |        +--ro received-delay-response?   yang:counter64
|   |   |        +--ro received-management?       yang:counter64
|   |   |        +--ro received-signaling?        yang:counter64
|   |   |        +--ro transmitted-announce?      yang:counter64
|   |   |        +--ro transmitted-sync?          yang:counter64
|   |   |        +--ro transmitted-followup?      yang:counter64
|   |   |        +--ro transmitted-delay-request? yang:counter64
|   |   |        +--ro transmitted-delay-response? yang:counter64
|   |   |        +--ro transmitted-management?    yang:counter64
|   |   |        +--ro transmitted-signaling?     yang:counter64
```


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```
|    |    +--ro master-data-sets
|    |    |  +--ro master-data-set* [master-id]
|    |    |     +--ro master-id    -> ../state/master-id
|    |    |     +--ro state
|    |    |        +--ro master-id?      uint8
|    |    |        +--ro ipv4-address?   inet:ipv4-address
|    |    |        +--ro ipv6-address?   inet:ipv6-address {feature-list:HAVE_IPV6}?
|    |    +--ro slave-data-sets
|    |    |  +--ro slave-data-set* [slave-id]
|    |    |     +--ro slave-id    -> ../state/slave-id
|    |    |     +--ro state
|    |    |        +--ro slave-id?                  uint8
|    |    |        +--ro ipv4-address?              inet:ipv4-address
|    |    |        +--ro ipv6-address?              inet:ipv6-address {feature-list:HAVE_IPV6}?
|    |    |        +--ro clock-identity?            string
|    |    |        +--ro delay-mechanism?           ipi-ptp-types:ptp_delay_mechanism_t
|    |    |        +--ro log-announce-interval?     int8
|    |    |        +--ro log-sync-interval?         int8
|    |    |        +--ro log-delay-request-interval?   int8
|    |    +--rw drop-counters
|    |       +--ro state
|    |          +--ro domain-mismatch?              yang:counter32
|    |          +--ro memory-alloc-failure?         yang:counter32
|    |          +--ro pkt-len-too-short?            yang:counter32
|    |          +--ro pkt-rcvd-on-bad-port-state?   yang:counter32
|    |          +--ro pkt-profile-mismatch?         yang:counter32
|    |          +--ro clock-port-mismatch?          yang:counter32
|    |          +--ro ptp-packet-parsing-failure?   yang:counter32
|    |          +--ro delreq-from-unknown-slave?    yang:counter32
|    |          +--ro announce-on-master-only-port?   yang:counter32
|    |          +--ro invalid-steps-removed-field?    yang:counter32
|    |          +--ro unknown-unicast-master?       yang:counter32
|    |          +--ro announce-on-gps-ptp-port?     yang:counter32
|    |          +--ro sync-rcvd-invalid?            yang:counter32
|    |          +--ro sync-rcvd-without-master?     yang:counter32
|    +--rw time-of-day {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
```

```
    |    | +--rw config
    |    | | +--rw io-type?   ipi-ptp-types:ptp_clock_io_type_t
    |    | +--ro state
    |    |    +--ro io-type?   ipi-ptp-types:ptp_clock_io_type_t
    |    +--rw ptp-servo {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |    | +--ro state
    |    |    +--ro previous-state?          ipi-ptp-types:ptp_servo_state_t
    |    |    +--ro previous-servo-state?    ipi-ptp-types:ptp_servo_state_custom_t {feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?
    |    |    +--ro servo-config?            string
    |    |    +--ro servo-state?             string
    |    |    +--ro duration?                string
    |    |    +--ro apts-mode?               ipi-ptp-types:ptp_servo_apts_mode_t
    |    |    +--ro freq-correction?         decimal64
    |    |    +--ro phase-correction?        decimal64
    |    |    +--ro mean-path-delay?         ipi-ptp-types:ptp_time_interval_t
    |    |    +--ro apts-gps-to-ptp-offset?  ipi-ptp-types:ptp_time_interval_t
    |    |    +--ro offset-from-master?      decimal64
    |    |    +--ro sync-packet-rate?        uint32
    |    |    +--ro delay-packet-rate?       uint32
    |    +--rw current-data-set {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |    | +--ro state
    |    |    +--ro steps-removed?              uint8
    |    |    +--ro offset-from-master?         ipi-ptp-types:ptp_time_interval_t
    |    |    +--ro offset-from-master-in-nsec?  decimal64
    |    |    +--ro mean-path-delay?            ipi-ptp-types:ptp_time_interval_t
    |    +--rw parent-data-set {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |    | +--ro state
    |    | | +--ro parent-stats-enabled?               boolean
    |    | | +--ro parent-offset-scaled-log-variance?  uint16
    |    | | +--ro parent-phase-change-rate?           uint32
    |    | | +--ro grandmaster-identity?               ipi-ptp-types:ptp_clock_identity_t
    |    | | +--ro grandmaster-priority-1?             uint8
    |    | | +--ro grandmaster-priority-2?             uint8
    |    | | +--ro port-identity
    |    | | |  +--ro clock-identity?   string
    |    | | |  +--ro port-number?      uint16
```


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```
|    | |  +--ro grandmaster-clock-quality
|    | |     +--ro clock-class?                uint8
|    | |     +--ro clock-accuracy?             uint8
|    | |     +--ro offset-scaled-log-variance?   uint16
|    |  +--rw port-identity
|    | |  +--ro state
|    | |     +--ro clock-identity?   string
|    | |     +--ro port-number?      uint16
|    |  +--rw grandmaster-clock-quality
|    |     +--ro state
|    |        +--ro clock-class?                uint8
|    |        +--ro clock-accuracy?             uint8
|    |        +--ro offset-scaled-log-variance?   uint16
|    +--rw time-properties {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
|    |  +--ro state
|    |     +--ro current-utc-offset-valid?   boolean
|    |     +--ro current-utc-offset?         int16
|    |     +--ro leap59?                     empty
|    |     +--ro leap61?                     empty
|    |     +--ro time-traceable?             empty
|    |     +--ro frequency-traceable?        empty
|    |     +--ro ptp-timescale?              empty
|    |     +--ro time-source?                ipi-ptp-types:ptp_time_source_t
|    |     +--ro ptp-time-of-day?            string
|    +--rw statistics {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
|    |  +--ro state
|    |     +--ro packets-transmitted?     yang:counter32
|    |     +--ro packets-received?        yang:counter32
|    |     +--ro packets-discarded?       yang:counter32
|    |     +--ro ipv4-packets-received?   yang:counter32
|    |     +--ro ipv6-packets-received?   yang:counter32 {feature-list:HAVE_IPV6}?
|    |     +--ro l2-packets-received?     yang:counter32
|    |     +--ro rx-queue-overflows?      yang:counter32
|    +--ro servo-history-data {feature-list:HAVE_DUNE_OR_HAVE_MARVELL}?
|    |  +--ro servo-history-data-entry* [entry-id]
|    |     +--ro entry-id    -> ../state/entry-id
```

```
|    |    +--ro state
|    |       +--ro entry-id?              uint8
|    |       +--ro timestamp?             string
|    |       +--ro phase-correction?      decimal64
|    |       +--ro frequency-correction?  decimal64
|    +--rw utc-offset-dates
|       +--rw utc-offset-date* [utc-date]
|       | +--rw utc-date    -> ../config/utc-date
|       | +--rw config
|       | | +--rw utc-date?        string
|       | | +--rw offset-seconds   uint8
|       | +--ro state
|       |    +--ro utc-date?        string
|       |    +--ro offset-seconds   uint8
|       +--rw baseline
|          +--rw config
|          | +--rw baseline-seconds?   uint8
|          +--ro state
|             +--ro baseline-seconds?   uint8
+--rw debug
| +--rw config
| | +--rw enable?   empty
| +--ro state
|    +--ro enable?                 empty
|    +--ro terminal-debug-status?  cml-data-types:cml_on_off_t
+--rw global
| +--rw config
| | +--rw two-step-time-stamp?   empty
| +--ro state
|    +--ro two-step-time-stamp?   empty
+--rw interfaces
   +--rw interface* [interface-name]
      +--rw interface-name    -> ../config/interface-name
      +--rw config
      | +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
      | +--rw hw-timestamp?     empty {feature-list:HAVE_DUNE}?
```


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```
        +--ro state
          +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
          +--ro hw-timestamp?     empty {feature-list:HAVE_DUNE}?

  rpcs:
    +---x ptp-clear-statistics {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_PTPD,feature-
list:HAVE_DUNE_OR_HAVE_MARVELL}?
    |  +---w input
    |     +---w clear-clock    uint8
    +---x ptp-terminal-debug-on {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE}?
    +---x ptp-terminal-debug-off {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE}?

  notifications:
    +---n ptp-servo-state-change-notify {feature-list:HAVE_PTP_HW_OFFLOAD,feature-list:HAVE_DUNE}?
    |  +--ro severity?         cml-data-types:cml_notif_severity_t
    |  +--ro eventClass?       cml-data-types:cml_notif_class_t
    |  +--ro instance-type?    uint8
    |  +--ro previous-state?   ipi-ptp-types:ptp_servo_state_t
    |  +--ro servo-state?      string
    +---n ptp-servo-state-change-custom1-notify {feature-list:HAVE_DUNE,feature-
list:HAVE_PTP_HW_OFFLOAD_CUSTOM1_OR_HAVE_PTP_HW_OFFLOAD_CUSTOM2}?
       +--ro severity?              cml-data-types:cml_notif_severity_t
       +--ro eventClass?            cml-data-types:cml_notif_class_t
       +--ro instance-type?         uint8
       +--ro previous-servo-state?   ipi-ptp-types:ptp_servo_state_custom_t
       +--ro servo-state?           string
```

ipi-qos-if

```
  augment /ipi-qos:qos:
    +--rw interfaces
       +--rw interface* [name]
          +--rw name              -> ../config/name
          +--rw config
          |  +--rw name?              -> /ipi-interface:interfaces/interface/name
```

```
      |  +--rw untagged-priority?   uint8
      |  +--rw trust-dscp?          empty
      |  +--rw lag-shaper?          ipi-qos-types:qos_lag_shaper_t {feature-list:HAVE_DNX}?
      |  +--rw lag-shaper-unit?     uint8 {feature-list:HAVE_DNX}?
      +--ro state
      |  +--ro name?                -> /ipi-interface:interfaces/interface/name
      |  +--ro untagged-priority?   uint8
      |  +--ro trust-dscp?          empty
      |  +--ro lag-shaper?          ipi-qos-types:qos_lag_shaper_t {feature-list:HAVE_DNX}?
      |  +--ro lag-shaper-unit?     uint8 {feature-list:HAVE_DNX}?
      +--rw remark
      |  +--rw config
      |  |  +--rw cos?         ipi-qos-types:cml_remark_state_t
      |  |  +--rw inner-cos?   empty {feature-list:HAVE_CUSTOM2_QOS,feature-list:HAVE_SUBINTERFACE}?
      |  |  +--rw dscp?        ipi-qos-types:cml_remark_state_t
      |  +--ro state
      |     +--ro cos?         ipi-qos-types:cml_remark_state_t
      |     +--ro inner-cos?   empty {feature-list:HAVE_CUSTOM2_QOS,feature-list:HAVE_SUBINTERFACE}?
      |     +--ro dscp?        ipi-qos-types:cml_remark_state_t
      +--rw traffic-shape
      |  +--rw config!
      |  |  +--rw rate         uint64
      |  |  +--rw rate-unit    ipi-qos-types:qos_shape_rate_unit_t
      |  +--ro state
      |     +--ro rate         uint64
      |     +--ro rate-unit    ipi-qos-types:qos_shape_rate_unit_t
      +--rw map-profile {feature-list:HAVE_QOS_MAPPING_PROFILE}?
      |  +--rw config
      |  |  +--rw cos-to-queue?              string
      |  |  +--rw dscp-to-dscp?              string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
      |  |  +--rw precedence-to-precedence?   string {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
      |  |  +--rw dscp-to-queue?             string
      |  |  +--rw precedence-to-queue?       string
      |  |  +--rw queue-color-to-cos?        string
      |  |  +--rw queue-to-exp?              string {feature-list:HAVE_DIFFSERV,feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
```


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```
        | |  +--rw egress-dynamic-ecn?         string
        |  +--ro state
        |     +--ro cos-to-queue?              string
        |     +--ro dscp-to-dscp?              string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
        |     +--ro precedence-to-precedence?   string {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
        |     +--ro dscp-to-queue?             string
        |     +--ro precedence-to-queue?       string
        |     +--ro queue-color-to-cos?        string
        |     +--ro queue-to-exp?              string {feature-list:HAVE_DIFFSERV,feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
        |     +--ro egress-dynamic-ecn?        string
        +--rw service-policy
          +--rw ingress
          |  +--rw config
          |  |  +--rw type-qos-policy-map-name?   string
          |  +--ro state
          |  |  +--ro type-qos-policy-map-name?   string
          |  +--ro class-maps-level-1
          |     +--ro class-map-level-1* [class-map-name-level-1]
          |        +--ro class-map-name-level-1    -> ../state/class-map-name-level-1
          |        +--ro state
          |        |  +--ro class-map-name-level-1?   string
          |        |  +--ro counters
          |        |     +--ro matched-packets?       yang:counter64
          |        |     +--ro matched-octets?        yang:counter64
          |        |     +--ro transmitted-packets?   yang:counter64
          |        |     +--ro transmitted-octets?    yang:counter64
          |        |     +--ro dropped-packets?       yang:counter64
          |        |     +--ro dropped-octets?        yang:counter64
          |        +--ro class-maps-level-2
          |           +--ro class-map-level-2* [class-map-name-level-2]
          |              +--ro class-map-name-level-2    -> ../state/class-map-name-level-2
          |              +--ro state
          |              |  +--ro class-map-name-level-2?   string
          |              |  +--ro counters
          |              |     +--ro matched-packets?       yang:counter64
```

```
|            |    +--ro matched-octets?        yang:counter64
|            |    +--ro transmitted-packets?   yang:counter64
|            |    +--ro transmitted-octets?    yang:counter64
|            |    +--ro dropped-packets?       yang:counter64
|            |    +--ro dropped-octets?        yang:counter64
|            +--ro class-maps-level-3
|              +--ro class-map-level-3* [class-map-name-level-3]
|                +--ro class-map-name-level-3    -> ../state/class-map-name-level-3
|                +--ro state
|                  +--ro class-map-name-level-3?   string
|                  +--ro counters
|                    +--ro matched-packets?       yang:counter64
|                    +--ro matched-octets?        yang:counter64
|                    +--ro transmitted-packets?   yang:counter64
|                    +--ro transmitted-octets?    yang:counter64
|                    +--ro dropped-packets?       yang:counter64
|                    +--ro dropped-octets?        yang:counter64
+--rw egress
  +--rw config
  | +--rw type-qos-policy-map-name?       string {feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
  | +--rw type-queuing-policy-map-name?   string
  +--ro state
  | +--ro type-qos-policy-map-name?       string {feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
  | +--ro type-queuing-policy-map-name?   string
  +--ro class-maps-level-1
    +--ro class-map-level-1* [class-map-name-level-1]
      +--ro class-map-name-level-1    -> ../state/class-map-name-level-1
      +--ro state
      | +--ro class-map-name-level-1?   string
      | +--ro queues
      |    +--ro queue* [id]
      |       +--ro id            uint8
      |       +--ro counters
      |       | +--ro total-transmitted-packets?       yang:counter64
      |       | +--ro total-transmitted-octets?        yang:counter64
```


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```
|       | +--ro total-dropped-packets?          yang:counter64
|       | +--ro total-dropped-octets?           yang:counter64
|       | +--ro green-transmitted-packets?      yang:counter64
|       | +--ro non-green-transmitted-packets?  yang:counter64
|       | +--ro green-dropped-packets?          yang:counter64
|       | +--ro yellow-dropped-packets?         yang:counter64
|       | +--ro red-dropped-packets?            yang:counter64
|       | +--ro rate-kbps?                      decimal64
|       | +--ro rate-mbps?                      decimal64
|       | +--ro rate-gbps?                      decimal64
|       +--ro queue-size
|         +--ro state
|           +--ro max-threshold?       yang:counter64
|           +--ro max-threshold-type?  ipi-qos-types:qos_threshold_t
+--ro class-maps-level-2
  +--ro class-map-level-2* [class-map-name-level-2]
    +--ro class-map-name-level-2    -> ../state/class-map-name-level-2
    +--ro state
    | +--ro class-map-name-level-2?  string
    | +--ro queues
    |   +--ro queue* [id]
    |     +--ro id           uint8
    |     +--ro counters
    |     | +--ro total-transmitted-packets?      yang:counter64
    |     | +--ro total-transmitted-octets?       yang:counter64
    |     | +--ro total-dropped-packets?          yang:counter64
    |     | +--ro total-dropped-octets?           yang:counter64
    |     | +--ro green-transmitted-packets?      yang:counter64
    |     | +--ro non-green-transmitted-packets?  yang:counter64
    |     | +--ro green-dropped-packets?          yang:counter64
    |     | +--ro yellow-dropped-packets?         yang:counter64
    |     | +--ro red-dropped-packets?            yang:counter64
    |     | +--ro rate-kbps?                      decimal64
    |     | +--ro rate-mbps?                      decimal64
    |     | +--ro rate-gbps?                      decimal64
    |     +--ro queue-size
```

```
|          +--ro state
|             +--ro max-threshold?        yang:counter64
|             +--ro max-threshold-type?   ipi-qos-types:qos_threshold_t
+--ro class-maps-level-3
  +--ro class-map-level-3* [class-map-name-level-3]
    +--ro class-map-name-level-3    -> ../state/class-map-name-level-3
    +--ro state
      +--ro class-map-name-level-3?   string
      +--ro queues
        +--ro queue* [id]
          +--ro id            uint8
          +--ro counters
          |  +--ro total-transmitted-packets?       yang:counter64
          |  +--ro total-transmitted-octets?        yang:counter64
          |  +--ro total-dropped-packets?           yang:counter64
          |  +--ro total-dropped-octets?            yang:counter64
          |  +--ro green-transmitted-packets?       yang:counter64
          |  +--ro non-green-transmitted-packets?   yang:counter64
          |  +--ro green-dropped-packets?           yang:counter64
          |  +--ro yellow-dropped-packets?          yang:counter64
          |  +--ro red-dropped-packets?             yang:counter64
          |  +--ro rate-kbps?                       decimal64
          |  +--ro rate-mbps?                       decimal64
          |  +--ro rate-gbps?                       decimal64
          +--ro queue-size
            +--ro state
              +--ro max-threshold?        yang:counter64
              +--ro max-threshold-type?   ipi-qos-types:qos_threshold_t

notifications:
  +---n qos-subinterface-default-policy-add-notification
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n qos-subinterface-default-policy-delete-notification
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
```


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```
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro message?      string
+---n qos-subinterface-traffic-shape-add-notification
|  +--ro severity?     cml-data-types:cml_notif_severity_t
|  +--ro eventClass?   cml-data-types:cml_notif_class_t
|  +--ro message?      string
+---n qos-subinterface-traffic-shape-delete-notification
   +--ro severity?     cml-data-types:cml_notif_severity_t
   +--ro eventClass?   cml-data-types:cml_notif_class_t
   +--ro message?      string
```

ipi-qos

```
+--rw qos
  +--rw global
    +--rw config
    |  +--rw enable-qos?   cml-data-types:cml_enable_disable_t
    +--ro state
    |  +--ro enable-qos?   cml-data-types:cml_enable_disable_t
    |  +--ro counters
    |     +--ro policy-entries?   yang:counter32
    +--rw map-profile {feature-list:HAVE_QOS_MAPPING_PROFILE}?
    |  +--rw cos-to-queue-profiles
    |  |  +--rw cos-to-queue-profile* [name]
    |  |     +--rw name             -> ../config/name
    |  |     +--rw config
    |  |     |  +--rw name?   string
    |  |     +--ro state
    |  |     |  +--ro name?   string
    |  |     +--rw cos-to-queues {feature-list:HAVE_CUSTOM2_QOS}?
    |  |        +--rw cos-to-queue* [cos-value]
    |  |           +--rw cos-value    -> ../config/cos-value
    |  |           +--rw config
    |  |           |  +--rw cos-value?         uint8
    |  |           |  +--rw queue-id           uint8
```

```
| |       | +--rw remark-queue-id?   uint8 {feature-list:HAVE_CUSTOM3_QOS}?
| |       +--ro state
| |         +--ro cos-value?        uint8
| |         +--ro queue-id          uint8
| |         +--ro remark-queue-id?   uint8 {feature-list:HAVE_CUSTOM3_QOS}?
| +--rw dscp-to-dscp-profiles {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw dscp-to-dscp-profile* [name]
| |   +--rw name            -> ../config/name
| |   +--rw config
| |   | +--rw name?   string
| |   +--ro state
| |   | +--ro name?   string
| |   +--rw dscp-to-dscps
| |     +--rw dscp-to-dscp* [dscp-value color]
| |       +--rw dscp-value    -> ../config/dscp-value
| |       +--rw color         -> ../config/color
| |       +--rw config
| |       | +--rw dscp-value?         uint8
| |       | +--rw color?              ipi-qos-types:qos_color_key_t
| |       | +--rw remark-dscp-value    uint8
| |       +--ro state
| |         +--ro dscp-value?         uint8
| |         +--ro color?              ipi-qos-types:qos_color_key_t
| |         +--ro remark-dscp-value    uint8
| +--rw precedence-to-precedence-profiles {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| | +--rw precedence-to-precedence-profile* [name]
| |   +--rw name                      -> ../config/name
| |   +--rw config
| |   | +--rw name?   string
| |   +--ro state
| |   | +--ro name?   string
| |   +--rw precedence-to-precedences
| |     +--rw precedence-to-precedence* [precedence-value]
| |       +--rw precedence-value    -> ../config/precedence-value
| |       +--rw config
| |       | +--rw precedence-value?         uint8
```


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```
| |       | +--rw remark-precedence-value    uint8
| |       +--ro state
| |         +--ro precedence-value?         uint8
| |         +--ro remark-precedence-value    uint8
| +--rw dscp-to-queue-profiles
| | +--rw dscp-to-queue-profile* [name]
| |   +--rw name              -> ../config/name
| |   +--rw config
| |   | +--rw name?   string
| |   +--ro state
| |   | +--ro name?   string
| |   +--rw dscp-to-queues
| |     +--rw dscp-to-queue* [dscp-value]
| |       +--rw dscp-value    -> ../config/dscp-value
| |       +--rw config
| |       | +--rw dscp-value?         uint8
| |       | +--rw queue-id            uint8
| |       | +--rw color?              ipi-qos-types:qos_color_t
| |       | +--rw remark-dscp-value?   uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| |       +--ro state
| |         +--ro dscp-value?         uint8
| |         +--ro queue-id            uint8
| |         +--ro color?              ipi-qos-types:qos_color_t
| |         +--ro remark-dscp-value?   uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| +--rw exp-to-queue-profiles {feature-list:HAVE_DIFFSERV}?
| | +--rw exp-to-queue-profile* [profile-id]
| |   +--rw profile-id       -> ../config/profile-id
| |   +--rw config
| |   | +--rw profile-id?   ipi-qos-types:qos_profile_name_default_t
| |   +--ro state
| |   | +--ro profile-id?   ipi-qos-types:qos_profile_name_default_t
| |   +--rw exp-to-queues
| |     +--rw exp-to-queue* [exp-value]
| |       +--rw exp-value    -> ../config/exp-value
| |       +--rw config
| |       | +--rw exp-value?          uint8
```

```
      | |         | +--rw queue-id             uint8
      | |         | +--rw color?               ipi-qos-types:qos_color_t
      | |         | +--rw remark-queue-value?   uint8 {feature-list:HAVE_CUSTOM3_QOS}?
      | |         +--ro state
      | |           +--ro exp-value?           uint8
      | |           +--ro queue-id             uint8
      | |           +--ro color?               ipi-qos-types:qos_color_t
      | |           +--ro remark-queue-value?   uint8 {feature-list:HAVE_CUSTOM3_QOS}?
      | +--rw queue-to-exp-profiles {feature-list:HAVE_DIFFSERV,feature-
list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
      | | +--rw queue-to-exp-profile* [name]
      | |    +--rw name                  -> ../config/name
      | |    +--rw config
      | |    | +--rw name?   string
      | |    +--ro state
      | |    | +--ro name?   string
      | |    +--rw queues-to-exp
      | |    +--rw queues-color-to-exp {feature-list:HAVE_CUSTOM3_QOS_OR_HAVE_CUSTOM4_QOS}?
      | |       +--rw queue-color-to-exp* [queue-id color]
      | |          +--rw queue-id    -> ../config/queue-id
      | |          +--rw color       -> ../config/color
      | |          +--rw config
      | |          | +--rw queue-id?    uint8
      | |          | +--rw color?       ipi-qos-types:qos_color_key_t
      | |          | +--rw exp-value    uint8
      | |          +--ro state
      | |            +--ro queue-id?    uint8
      | |            +--ro color?       ipi-qos-types:qos_color_key_t
      | |            +--ro exp-value    uint8
      | +--rw queue-color-to-cos-profiles
      | | +--rw queue-color-to-cos-profile* [name]
      | |    +--rw name                  -> ../config/name
      | |    +--rw config
      | |    | +--rw name?   string
      | |    +--ro state
      | |    | +--ro name?   string
      | |    +--rw queue-color-to-coses
```


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```
| |       +--rw queue-color-to-cos* [queue-id color]
| |         +--rw queue-id    -> ../config/queue-id
| |         +--rw color       -> ../config/color
| |         +--rw config
| |         | +--rw queue-id?    uint8
| |         | +--rw color?       ipi-qos-types:qos_color_key_t
| |         | +--rw cos-value    uint8
| |         +--ro state
| |           +--ro queue-id?    uint8
| |           +--ro color?       ipi-qos-types:qos_color_key_t
| |           +--ro cos-value    uint8
| +--rw precedence-to-queue-profiles
| | +--rw precedence-to-queue-profile* [name]
| |   +--rw name                  -> ../config/name
| |   +--rw config
| |   | +--rw name?   string
| |   +--ro state
| |   | +--ro name?   string
| |   +--rw precedence-to-queues
| |     +--rw precedence-to-queue* [precedence-value]
| |       +--rw precedence-value    -> ../config/precedence-value
| |       +--rw config
| |       | +--rw precedence-value?          uint8
| |       | +--rw queue-id                   uint8
| |       | +--rw remark-precedence-value?   uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| |       +--ro state
| |         +--ro precedence-value?          uint8
| |         +--ro queue-id                   uint8
| |         +--ro remark-precedence-value?   uint8 {feature-list:HAVE_CUSTOM2_QOS}?
| +--rw queue-color-to-dscp-profiles
| | +--rw queue-color-to-dscp-profile* [name]
| |   +--rw name                  -> ../config/name
| |   +--rw config
| |   | +--rw name?   string
| |   +--ro state
| |   | +--ro name?   string
```

```
| |    +--rw queue-color-to-dscps
| |       +--rw queue-color-to-dscp* [queue-id color]
| |          +--rw queue-id    -> ../config/queue-id
| |          +--rw color       -> ../config/color
| |          +--rw config
| |          |  +--rw queue-id?     uint8
| |          |  +--rw color?        ipi-qos-types:qos_color_key_t
| |          |  +--rw dscp-value    uint8
| |          +--ro state
| |             +--ro queue-id?     uint8
| |             +--ro color?        ipi-qos-types:qos_color_key_t
| |             +--ro dscp-value    uint8
| +--rw egress-dynamic-ecn-profiles
|    +--rw egress-dynamic-ecn-profile* [name]
|       +--rw name                   -> ../config/name
|       +--rw config
|       |  +--rw name?   string
|       +--ro state
|       |  +--ro name?   string
|       +--rw egress-dynamic-ecns
|          +--rw egress-dynamic-ecn* [queue-id]
|             +--rw queue-id    -> ../config/queue-id
|             +--rw config
|             |  +--rw queue-id?      uint8
|             |  +--rw on-offset      uint32
|             |  +--rw off-offset     uint32
|             |  +--rw offset-unit    ipi-qos-types:qos_eg_dynamic_ecn_offset_unit_t
|             +--ro state
|                +--ro queue-id?      uint8
|                +--ro on-offset      uint32
|                +--ro off-offset     uint32
|                +--ro offset-unit    ipi-qos-types:qos_eg_dynamic_ecn_offset_unit_t
+--rw remark
| +--rw config
| | +--rw cos?    empty
| | +--rw dei?    empty {feature-list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS}?
```


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```
| | +--rw dscp?   empty
| +--ro state
|    +--ro cos?    empty
|    +--ro dei?    empty {feature-list:HAVE_CUSTOM1_QOS_OR_HAVE_CUSTOM3_QOS}?
|    +--ro dscp?   empty
+--ro class-maps-default
| +--ro class-map-default* [name]
|    +--ro name     -> ../state/name
|    +--ro state
|       +--ro name?            string
|       +--ro type?            ipi-qos-types:qos_class_map_default_t
|       +--ro match-criteria?   ipi-qos-types:qos_match_criteria_t
+--rw class-maps
| +--rw class-map* [name type]
|    +--rw name                  -> ../config/name
|    +--rw type                  -> ../config/type
|    +--rw config
|    | +--rw name?                 string
|    | +--rw type?                 ipi-qos-types:qos_class_map_t
|    | +--rw match-criteria        ipi-qos-types:qos_match_criteria_t
|    | +--rw reference-description?   cml-data-types:cml_line_t
|    +--ro state
|    | +--ro name?                 string
|    | +--ro type?                 ipi-qos-types:qos_class_map_t
|    | +--ro match-criteria        ipi-qos-types:qos_match_criteria_t
|    | +--ro reference-description?   cml-data-types:cml_line_t
|    +--rw match-any-conditions
|    | +--rw config
|    | | +--rw access-control-list-name?   string
|    | | +--rw ethertype*                  string
|    | | +--rw traffic-type*               ipi-qos-types:qos_traffic_type_t
|    | | +--rw cos?                        cml-data-types:cml_range_t
|    | | +--rw inner-cos?                  cml-data-types:cml_range_t
|    | | +--rw vlan?                       cml-data-types:cml_range_t
|    | | +--rw inner-vlan?                 cml-data-types:cml_range_t
|    | | +--rw rtp?                        cml-data-types:cml_range_t
```

```
|    | | +--rw mpls-exp?                cml-data-types:cml_range_t {feature-list:HAVE_DIFFSERV}?
|    | | +--rw dscp?                    cml-data-types:cml_range_t
|    | | +--rw ipv6-dscp?               cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|    | | +--rw precedence?              cml-data-types:cml_range_t
|    | | +--rw ipv6-precedence?         cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|    | +--ro state
|    | | +--ro access-control-list-name?   string
|    | | +--ro ethertype*                  string
|    | | +--ro traffic-type*               ipi-qos-types:qos_traffic_type_t
|    | | +--ro cos?                        cml-data-types:cml_range_t
|    | | +--ro inner-cos?                  cml-data-types:cml_range_t
|    | | +--ro vlan?                       cml-data-types:cml_range_t
|    | | +--ro inner-vlan?                 cml-data-types:cml_range_t
|    | | +--ro rtp?                        cml-data-types:cml_range_t
|    | | +--ro mpls-exp?                   cml-data-types:cml_range_t {feature-list:HAVE_DIFFSERV}?
|    | | +--ro dscp?                       cml-data-types:cml_range_t
|    | | +--ro ipv6-dscp?                  cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|    | | +--ro precedence?                 cml-data-types:cml_range_t
|    | | +--ro ipv6-precedence?            cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|    | +--rw ipv4
|    | | +--rw layer4-match* [protocol port-type]
|    | |    +--rw protocol     -> ../config/protocol
|    | |    +--rw port-type    -> ../config/port-type
|    | |    +--rw config
|    | |    |  +--rw protocol?    ipi-qos-types:qos_layer4_protocol_t
|    | |    |  +--rw port-type?   ipi-qos-types:qos_layer4_port_t
|    | |    |  +--rw port         cml-data-types:cml_range_t
|    | |    +--ro state
|    | |       +--ro protocol?    ipi-qos-types:qos_layer4_protocol_t
|    | |       +--ro port-type?   ipi-qos-types:qos_layer4_port_t
|    | |       +--ro port         cml-data-types:cml_range_t
|    | +--rw ipv6
|    |    +--rw layer4-match* [protocol port-type] {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
```


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```
|    |       +--rw protocol     -> ../config/protocol
|    |       +--rw port-type    -> ../config/port-type
|    |       +--rw config
|    |       | +--rw protocol?    ipi-qos-types:qos_layer4_protocol_t
|    |       | +--rw port-type?   ipi-qos-types:qos_layer4_port_t
|    |       | +--rw port         cml-data-types:cml_range_t
|    |       +--ro state
|    |         +--ro protocol?    ipi-qos-types:qos_layer4_protocol_t
|    |         +--ro port-type?   ipi-qos-types:qos_layer4_port_t
|    |         +--ro port         cml-data-types:cml_range_t
|    +--rw match-all-conditions
|      +--rw config
|      | +--rw ethertype-all?         string
|      | +--rw traffic-type-all?      ipi-qos-types:qos_traffic_type_t
|      | +--rw cos-all?               uint8
|      | +--rw inner-cos-all?         uint8
|      | +--rw vlan-all?              uint16
|      | +--rw inner-vlan-all?        uint16
|      | +--rw rtp-all?               string
|      | +--rw mpls-exp-all?          uint8 {feature-list:HAVE_DIFFSERV}?
|      | +--rw dscp-all?              ipi-qos-types:qos_match_dscp_t
|      | +--rw ipv6-dscp-all?         ipi-qos-types:qos_match_dscp_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|      | +--rw precedence-all?        string
|      | +--rw ipv6-precedence-all?   string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|      +--ro state
|      | +--ro ethertype-all?         string
|      | +--ro traffic-type-all?      ipi-qos-types:qos_traffic_type_t
|      | +--ro cos-all?               uint8
|      | +--ro inner-cos-all?         uint8
|      | +--ro vlan-all?              uint16
|      | +--ro inner-vlan-all?        uint16
|      | +--ro rtp-all?               string
|      | +--ro mpls-exp-all?          uint8 {feature-list:HAVE_DIFFSERV}?
|      | +--ro dscp-all?              ipi-qos-types:qos_match_dscp_t
|      | +--ro ipv6-dscp-all?         ipi-qos-types:qos_match_dscp_t {feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
```

```
|       | +--ro precedence-all?        string
|       | +--ro ipv6-precedence-all?   string {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|       +--rw layer4-matches-ipv4
|       | +--rw layer4-match-ipv4* [protocol-all port-type-all port-all]
|       |    +--rw protocol-all     -> ../config/protocol-all
|       |    +--rw port-type-all    -> ../config/port-type-all
|       |    +--rw port-all         -> ../config/port-all
|       |    +--rw config
|       |    | +--rw protocol-all?    ipi-qos-types:qos_layer4_protocol_t
|       |    | +--rw port-type-all?   ipi-qos-types:qos_layer4_port_t
|       |    | +--rw port-all?        cml-data-types:cml_range_t
|       |    +--ro state
|       |       +--ro protocol-all?    ipi-qos-types:qos_layer4_protocol_t
|       |       +--ro port-type-all?   ipi-qos-types:qos_layer4_port_t
|       |       +--ro port-all?        cml-data-types:cml_range_t
|       +--rw layer4-matches-ipv6 {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
|          +--rw layer4-match-ipv6* [protocol-all port-type-all port-all]
|             +--rw protocol-all     -> ../config/protocol-all
|             +--rw port-type-all    -> ../config/port-type-all
|             +--rw port-all         -> ../config/port-all
|             +--rw config
|             | +--rw protocol-all?    ipi-qos-types:qos_layer4_protocol_t
|             | +--rw port-type-all?   ipi-qos-types:qos_layer4_port_t
|             | +--rw port-all?        cml-data-types:cml_range_t
|             +--ro state
|                +--ro protocol-all?    ipi-qos-types:qos_layer4_protocol_t
|                +--ro port-type-all?   ipi-qos-types:qos_layer4_port_t
|                +--ro port-all?        cml-data-types:cml_range_t
+--rw class-maps-queuing
| +--rw class-map-queuing* [name]
|    +--rw name               -> ../config/name
|    +--rw config
|    | +--rw name?                 string
|    | +--rw type                  ipi-qos-types:qos_class_map_t
|    | +--rw reference-description?   cml-data-types:cml_line_t
|    +--ro state
```


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```
|    | +--ro name?                  string
|    | +--ro type                   ipi-qos-types:qos_class_map_t
|    | +--ro reference-description?   cml-data-types:cml_line_t
|    +--rw match-conditions
|      +--rw config
|      | +--rw vlan-queue?            uint16 {feature-list:NOT_HAVE_MARVELL}?
|      | +--rw queue*                 uint8 {feature-list:HAVE_SERVICE_QUEUING_2}?
|      | +--rw service-template-name?   string {feature-list:HAVE_SERVICE_QUEUING_2,feature-
list:NOT_HAVE_MARVELL}?
|      | +--rw interface?             string {feature-list:HAVE_SERVICE_QUEUING_2,feature-
list:NOT_HAVE_MARVELL}?
|      +--ro state
|        +--ro vlan-queue?            uint16 {feature-list:NOT_HAVE_MARVELL}?
|        +--ro queue*                 uint8 {feature-list:HAVE_SERVICE_QUEUING_2}?
|        +--ro service-template-name?   string {feature-list:HAVE_SERVICE_QUEUING_2,feature-
list:NOT_HAVE_MARVELL}?
|        +--ro interface?             string {feature-list:HAVE_SERVICE_QUEUING_2,feature-
list:NOT_HAVE_MARVELL}?
+--rw policy-maps
| +--rw policy-map* [policy-map-name type]
|    +--rw policy-map-name    -> ../config/policy-map-name
|    +--rw type               -> ../config/type
|    +--rw config
|    | +--rw policy-map-name?        string
|    | +--rw type?                   ipi-qos-types:qos_policy_map_t
|    | +--rw reference-description?   cml-data-types:cml_line_t
|    +--ro state
|    | +--ro policy-map-name?        string
|    | +--ro type?                   ipi-qos-types:qos_policy_map_t
|    | +--ro reference-description?   cml-data-types:cml_line_t
|    +--rw classes
|      +--rw class* [class-map-name]
|        +--rw class-map-name    -> ../config/class-map-name
|        +--rw config
|        | +--rw class-map-name?             ipi-qos-types:qos_policy_map_class_t
|        | +--rw class-type                  ipi-qos-types:qos_policy_map_t
|        | +--rw child-service-policy-name?   -> /qos/global/policy-maps/policy-map/policy-map-name {feature-
list:HAVE_CUSTOM2_QOS}?
```

```
|       | +--rw reference-description?       cml-data-types:cml_line_t
|       +--ro state
|       | +--ro class-map-name?              ipi-qos-types:qos_policy_map_class_t
|       | +--ro class-type                   ipi-qos-types:qos_policy_map_t
|       | +--ro child-service-policy-name?   -> /qos/global/policy-maps/policy-map/policy-map-name {feature-
list:HAVE_CUSTOM2_QOS}?
|       | +--ro reference-description?       cml-data-types:cml_line_t
|       +--rw queue-mode
|       | +--rw config
|       | | +--rw byte-compensation?                   int8 {feature-list:HAVE_CUSTOM2_QOS}?
|       | | +--rw priority-level?                      uint8 {feature-list:HAVE_CUSTOM2_QOS}?
|       | | +--rw weighted-fair-queueing-queue-weight?   uint8 {feature-list:HAVE_CUSTOM2_QOS}?
|       | +--ro state
|       | | +--ro byte-compensation?                   int8 {feature-list:HAVE_CUSTOM2_QOS}?
|       | | +--ro priority-level?                      uint8 {feature-list:HAVE_CUSTOM2_QOS}?
|       | | +--ro weighted-fair-queueing-queue-weight?   uint8 {feature-list:HAVE_CUSTOM2_QOS}?
|       | +--rw red
|       | | +--rw config
|       | | | +--rw weight?   uint8
|       | | +--ro state
|       | | | +--ro weight?   uint8
|       | | +--rw wreds {feature-list:HAVE_CUSTOM2_QOS}?
|       | | |   +--rw wred* [color]
|       | | |     +--rw color     -> ../config/color
|       | | |     +--rw config!
|       | | |     | +--rw color?               ipi-qos-types:qos_color_key_t
|       | | |     | +--rw min-threshold        uint32
|       | | |     | +--rw min-threshold-unit   ipi-qos-types:qos_threshold_t
|       | | |     | +--rw max-threshold        uint32
|       | | |     | +--rw max-threshold-unit   ipi-qos-types:qos_threshold_t
|       | | |     | +--rw drop-probability?    uint8
|       | | |     +--ro state
|       | | |       +--ro color?               ipi-qos-types:qos_color_key_t
|       | | |       +--ro min-threshold        uint32
|       | | |       +--ro min-threshold-unit   ipi-qos-types:qos_threshold_t
|       | | |       +--ro max-threshold        uint32
|       | | |       +--ro max-threshold-unit   ipi-qos-types:qos_threshold_t
```


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```
|       | |         +--ro drop-probability?     uint8
|       | +--rw tail-drops
|       | | +--rw tail-drop* [max-threshold max-threshold-type]
|       | |    +--rw max-threshold         -> ../config/max-threshold
|       | |    +--rw max-threshold-type    -> ../config/max-threshold-type
|       | |    +--rw config
|       | |    | +--rw max-threshold?        uint32
|       | |    | +--rw max-threshold-type?   ipi-qos-types:qos_threshold_t
|       | |    +--ro state
|       | |      +--ro max-threshold?        uint32
|       | |      +--ro max-threshold-type?   ipi-qos-types:qos_threshold_t
|       | +--rw shapes
|       |    +--rw shape* [rate-value rate-unit]
|       |      +--rw rate-value    -> ../config/rate-value
|       |      +--rw rate-unit     -> ../config/rate-unit
|       |      +--rw config
|       |      | +--rw rate-value?   uint32
|       |      | +--rw rate-unit?    ipi-qos-types:qos_shape_rate_unit_extended_t
|       |      +--ro state
|       |        +--ro rate-value?   uint32
|       |        +--ro rate-unit?    ipi-qos-types:qos_shape_rate_unit_extended_t
|       +--rw qos-mode
|       | +--rw config
|       | | +--rw priority?                uint16
|       | | +--rw color-value-remark?      ipi-qos-types:qos_color_action_t {feature-list:HAVE_CUSTOM3_QOS}?
|       | | +--rw (set-option)?
|       | |    +--:(port-action)
|       | |    +--:(precedence)
|       | |    | +--rw precedence-remark?   string
|       | |    +--:(bridge-precedence)
|       | |    +--:(cos)
|       | |    | +--rw cos-value?          uint8
|       | |    +--:(bridge-cos)
|       | |    +--:(dscp)
|       | |    | +--rw dscp-value-remark?   string
|       | |    +--:(bridge-dscp)
```

```
|       | |    +--:(queue)
|       | |    | +--rw queue-id?          uint8
|       | |    +--:(bridge-queue)
|       | |    +--:(qos-group)
|       | +--ro state
|       | | +--ro priority?               uint16
|       | | +--ro color-value-remark?     ipi-qos-types:qos_color_action_t {feature-list:HAVE_CUSTOM3_QOS}?
|       | | +--ro (set-option)?
|       | |    +--:(port-action)
|       | |    +--:(precedence)
|       | |    | +--ro precedence-remark?  string
|       | |    +--:(bridge-precedence)
|       | |    +--:(cos)
|       | |    | +--ro cos-value?          uint8
|       | |    +--:(bridge-cos)
|       | |    +--:(dscp)
|       | |    | +--ro dscp-value-remark?  string
|       | |    +--:(bridge-dscp)
|       | |    +--:(queue)
|       | |    | +--ro queue-id?          uint8
|       | |    +--:(bridge-queue)
|       | |    +--:(qos-group)
|       | +--rw police
|       |    +--rw config
|       |    | +--rw police-type?   ipi-qos-types:qos_police_t
|       |    | +--rw cir?           uint64
|       |    | +--rw cir-unit?      ipi-qos-types:qos_rate_unit_t
|       |    | +--rw bc?            uint64
|       |    | +--rw bc-unit?       ipi-qos-types:qos_burst_rate_unit_t
|       |    | +--rw eir?           uint64 {feature-list:HAVE_CUSTOM2_QOS}?
|       |    | +--rw eir-unit?      ipi-qos-types:qos_rate_unit_t {feature-list:HAVE_CUSTOM2_QOS}?
|       |    | +--rw be?            uint32
|       |    | +--rw be-unit?       ipi-qos-types:qos_burst_rate_unit_t
|       |    +--ro state
|       |      +--ro police-type?   ipi-qos-types:qos_police_t
|       |      +--ro cir?           uint64
```


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```
|          |       +--ro cir-unit?      ipi-qos-types:qos_rate_unit_t
|          |       +--ro bc?            uint64
|          |       +--ro bc-unit?       ipi-qos-types:qos_burst_rate_unit_t
|          |       +--ro eir?           uint64 {feature-list:HAVE_CUSTOM2_QOS}?
|          |       +--ro eir-unit?      ipi-qos-types:qos_rate_unit_t {feature-list:HAVE_CUSTOM2_QOS}?
|          |       +--ro be?            uint32
|          |       +--ro be-unit?       ipi-qos-types:qos_burst_rate_unit_t
|          +--rw copp-mode {feature-list:HAVE_COPP_FILTER}?
|             +--rw police
|                +--rw config
|                | +--rw copp-police-type?   ipi-qos-types:qos_police_t
|                | +--rw copp-cir?           uint64
|                | +--rw copp-cir-unit?      ipi-qos-types:qos_shape_rate_unit_t
|                +--ro state
|                   +--ro copp-police-type?   ipi-qos-types:qos_police_t
|                   +--ro copp-cir?           uint64
|                   +--ro copp-cir-unit?      ipi-qos-types:qos_shape_rate_unit_t
+--rw statistics
| +--rw config
| | +--rw enabled?   empty
| +--ro state
|    +--ro enabled?   empty
+--rw red-drop
| +--rw config
| | +--rw disabled?   empty {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
| +--ro state
|    +--ro disabled?   empty {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
+--rw vlan-queuing
| +--rw config
| +--ro state
+--rw copp-service-policy {feature-list:HAVE_COPP_FILTER}?
   +--rw config
   | +--rw policy-map-name?   -> /qos/global/policy-maps/policy-map/policy-map-name
   +--ro state
      +--ro policy-map-name?   -> /qos/global/policy-maps/policy-map/policy-map-name
```

```
rpcs:
  +---x qos-clear-statistics {feature-list:HAVE_QOS}?
    +---w input
      +---w interface-name?   string
      +---w type?             ipi-qos-types:qos_clear_stats_t
```

ipi-radius

```
+--rw radius
  +--rw vrfs
  |  +--rw vrf* [vrf-name] {feature-list:HAVE_AAA}?
  |    +--rw vrf-name          -> ../config/vrf-name
  |    +--rw config
  |    |  +--rw vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |    |  +--rw key-type?           ipi-radius-types:radius_hostp_key_type_t
  |    |  +--rw secret-key-string?   string
  |    |  +--rw timeout?            uint8
  |    +--ro state
  |    |  +--ro vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |    |  +--ro key-type?           ipi-radius-types:radius_hostp_key_type_t
  |    |  +--ro secret-key-string?   string
  |    |  +--ro timeout?            uint8
  |    +--rw remote-servers
  |       +--rw server* [host-address] {feature-list:HAVE_AAA}?
  |          +--rw host-address    -> ../config/host-address
  |          +--rw config
  |          |  +--rw host-address?          cml-data-types:cml_hostname_t
  |          |  +--rw sequence-number        uint8
  |          |  +--rw key-type?              ipi-radius-types:radius_hostp_key_type_t
  |          |  +--rw secret-key-string?     string
  |          |  +--rw accounting-port?       uint16
  |          |  +--rw authentication-port?   uint16
  |          |  +--rw timeout?               uint8
  |          +--ro state
  |             +--ro host-address?                    cml-data-types:cml_hostname_t
```


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```
  |            +--ro sequence-number                    uint8
  |            +--ro key-type?                          ipi-radius-types:radius_hostp_key_type_t
  |            +--ro secret-key-string?                 string
  |            +--ro accounting-port?                   uint16
  |            +--ro authentication-port?               uint16
  |            +--ro timeout?                           uint8
  |            +--ro last-successful-authentication-time?   yang:date-and-time
  |            +--ro counters
  |               +--ro successful-authentications?   yang:counter64
  |               +--ro authentication-failures?      yang:counter64
  |               +--ro connection-failures?          yang:counter64
  +--rw debug
     +--rw config
     |  +--rw enable?   empty
     +--ro state
        +--ro enable?                 empty
        +--ro terminal-debug-status?   cml-data-types:cml_on_off_t

rpcs:
  +---x radius-clear-all-server-counters {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?
  |  +---w input
  |     +---w vrf-name    string
  +---x radius-clear-server-counters {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?
  |  +---w input
  |     +---w hostname    cml-data-types:cml_hostpname_t
  |     +---w vrf-name    string
  +---x radius-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?
  +---x radius-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_RADIUS_CLIENT}?
```

ipi-ras

```
rpcs:
  +---x platform-clear-hsl-ipc-stat-values {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
  |  +---w input
  |     +---w start-value    uint16
```

```
|    +---w end-value      uint16
+---x platform-clear-hsl-ipc-stat {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
+---x platform-clear-hsl-mlag-mac-sync {feature-list:HAVE_MLAG}?
+---x platform-clear-hardware-discard-counters {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
+---x platform-clear-hsl-fdb-debug-counters {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
+---x platform-clear-hsl-system-cpu-stats {feature-list:HAVE_HAL,feature-list:HAVE_PLATFORM_RAS}?
```

ipi-rib-vrf

```
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:
  +--rw global
     +--rw config
     |  +--rw ipv4-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
     |  +--rw ipv6-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
     +--ro state
        +--ro ipv4-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
        +--ro ipv6-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:
  +--rw static-routes
     +--rw ipv4
     |  +--rw multicast-routes
     |     +--rw multicast-route* [source-prefix protocol-type]
     |        +--rw source-prefix    -> ../config/source-prefix
     |        +--rw protocol-type    -> ../config/protocol-type
     |        +--rw config
     |        |  +--rw source-prefix?     cml-data-types:cml_ipv4_prefix_t
     |        |  +--rw protocol-type?     ipi-rib-types:rib_mroute_route_type_t
     |        |  +--rw gateway-address    inet:ipv4-address
     |        |  +--rw distance?          uint32
     |        +--ro state
     |           +--ro source-prefix?     cml-data-types:cml_ipv4_prefix_t
     |           +--ro protocol-type?     ipi-rib-types:rib_mroute_route_type_t
     |           +--ro gateway-address    inet:ipv4-address
```


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```
|          +--ro distance?          uint32
+--rw ipv6 {feature-list:HAVE_IPV6}?
  +--rw multicast-routes
    +--rw multicast-route* [source-prefix protocol-type]
      +--rw source-prefix    -> ../config/source-prefix
      +--rw protocol-type    -> ../config/protocol-type
      +--rw config
      | +--rw source-prefix?   cml-data-types:cml_ipv6_prefix_t
      | +--rw protocol-type?   ipi-rib-types:rib_mroute_ipv6_route_type_t
      +--ro state
      | +--ro source-prefix?   cml-data-types:cml_ipv6_prefix_t
      | +--ro protocol-type?   ipi-rib-types:rib_mroute_ipv6_route_type_t
      +--rw nexthop
        +--rw config!
        | +--rw gateway-mroute    inet:ipv6-address
        | +--rw distance?         uint32
        +--ro state
          +--ro gateway-mroute    inet:ipv6-address
          +--ro distance?         uint32
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:
 +--ro ribs
   +--ro ipv4
   | +--ro ecmp-path-summary* [path-count]
   | | +--ro path-count    -> ../state/path-count
   | | +--ro state
   | |   +--ro counters
   | |   | +--ro number-of-routes?   yang:counter32
   | |   +--ro path-count?   uint32
   | +--ro protocol-rib-summary* [protocol-type]
   | | +--ro protocol-type    -> ../state/protocol-type
   | | +--ro state
   | |   +--ro counters
   | |   | +--ro number-of-routes?   yang:counter32
   | |   +--ro protocol-type?   ipi-rib-types:rib_route_type_t
   | +--ro protocol-rib-mpls-summary* [protocol-type] {feature-list:HAVE_MPLS_AWARE_RIB}?
   | | +--ro protocol-type    -> ../state/protocol-type
```

```
      | | +--ro state
      | |    +--ro counters
      | |    | +--ro number-of-routes?   yang:counter32
      | |    +--ro protocol-type?   ipi-rib-types:rib_route_type_t
      | +--ro routes
      | | +--ro route* [destination-prefix protocol-type]
      | | | +--ro destination-prefix    -> ../state/destination-prefix
      | | | +--ro protocol-type         -> ../state/protocol-type
      | | | +--ro next-hop* [gateway-address]
      | | | | +--ro gateway-address    -> ../state/gateway-address
      | | | | +--ro state
      | | | |    +--ro gateway-address?               string
      | | | |    +--ro recursive-hop*                 string
      | | | |    +--ro interface-name?                string
      | | | |    +--ro active?                        empty
      | | | |    +--ro fib-installed?                 empty
      | | | |    +--ro object-tracking-reachability?   ipi-rib-types:rib_object_tracking_reachability_status_t {feature-
list:HAVE_OBJ_TRACKING}?
      | | | |    +--ro recursive-mpls-active?         empty {feature-list:HAVE_MPLS_AWARE_RIB}?
      | | | |    +--ro recursive-mpls-ftn-id?         uint32 {feature-list:HAVE_MPLS_AWARE_RIB}?
      | | | |    +--ro recursive-mpls-nhlfe-ix?       uint32 {feature-list:HAVE_MPLS_AWARE_RIB}?
      | | | |    +--ro recursive-mpls-fib-installed?   empty {feature-list:HAVE_MPLS_AWARE_RIB}?
      | | | +--ro state
      | | |    +--ro destination-prefix?   cml-data-types:cml_ipv4_prefix_t
      | | |    +--ro protocol-type?        ipi-rib-types:rib_route_type_t
      | | |    +--ro sub-type?             ipi-rib-types:rib_route_sub_type_t
      | | |    +--ro distance?             uint8
      | | |    +--ro metric?               uint32
      | | |    +--ro black-hole?           empty
      | | |    +--ro up-time?              string
      | | |    +--ro selected?             empty
      | | |    +--ro stale?                empty
      | | +--ro state
      | |    +--ro gateway-last-resort?   string
      | +--ro state
      |    +--ro counters
      |       +--ro total-routes?             yang:counter32
```


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```
|       +--ro total-paths?                yang:counter32
|       +--ro total-routes-in-fib?        yang:counter32
|       +--ro ecmp-routes?                yang:counter32
|       +--ro ecmp-paths?                 yang:counter32
|       +--ro total-routes-mpls?          yang:counter32 {feature-list:HAVE_MPLS_AWARE_RIB}?
|       +--ro total-routes-nhlfe-mpls?    yang:counter32 {feature-list:HAVE_MPLS_AWARE_RIB}?
|       +--ro total-routes-in-fib-mpls?   yang:counter32 {feature-list:HAVE_MPLS_AWARE_RIB}?
+--ro ipv6 {feature-list:HAVE_IPV6}?
   +--ro ecmp-path-summary* [path-count]
   |  +--ro path-count    -> ../state/path-count
   |  +--ro state
   |     +--ro counters
   |     |  +--ro number-of-routes?   yang:counter32
   |     +--ro path-count?   uint32
   +--ro protocol-rib-summary* [protocol-type]
   |  +--ro protocol-type    -> ../state/protocol-type
   |  +--ro state
   |     +--ro counters
   |     |  +--ro number-of-routes?   yang:counter32
   |     +--ro protocol-type?   ipi-rib-types:rib_route_type_t
   +--ro routes
   |  +--ro route* [destination-prefix protocol-type]
   |     +--ro destination-prefix    -> ../state/destination-prefix
   |     +--ro protocol-type         -> ../state/protocol-type
   |     +--ro next-hop* [gateway-address]
   |     |  +--ro gateway-address    -> ../state/gateway-address
   |     |  +--ro state
   |     |     +--ro gateway-address?               string
   |     |     +--ro recursive-hop*                 string
   |     |     +--ro interface-name?                string
   |     |     +--ro active?                        empty
   |     |     +--ro fib-installed?                 empty
   |     |     +--ro object-tracking-reachability?   ipi-rib-types:rib_object_tracking_reachability_status_t {feature-
list:HAVE_OBJ_TRACKING}?
   |     +--ro state
   |        +--ro destination-prefix?   cml-data-types:cml_ipv6_prefix_t
   |        +--ro protocol-type?        ipi-rib-types:rib_route_type_t
```

```
      |       +--ro sub-type?            ipi-rib-types:rib_route_sub_type_t
      |       +--ro distance?            uint8
      |       +--ro metric?              uint32
      |       +--ro black-hole?          empty
      |       +--ro up-time?             string
      |       +--ro selected?            empty
      |       +--ro stale?               empty
      +--ro state
        +--ro counters
          +--ro total-routes?          yang:counter32
          +--ro total-paths?           yang:counter32
          +--ro total-routes-in-fib?   yang:counter32
          +--ro ecmp-routes?           yang:counter32
          +--ro ecmp-paths?            yang:counter32
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-vrf:vrf:
  +--rw maximum-fib-routes
    +--rw ipv4
    |  +--rw config!
    |  |  +--rw max-limit           uint32
    |  |  +--rw limit-action        ipi-rib-types:rib_max_route_action_t
    |  |  +--rw warning-threshold?  uint8
    |  +--ro state
    |     +--ro max-limit               uint32
    |     +--ro limit-action            ipi-rib-types:rib_max_route_action_t
    |     +--ro warning-threshold?      uint8
    |     +--ro threshold-exceeded?     boolean
    |     +--ro utilization-percentage? uint32
    +--rw ipv6 {feature-list:HAVE_IPV6}?
      +--rw config!
      |  +--rw max-limit           uint32
      |  +--rw limit-action        ipi-rib-types:rib_max_route_action_t
      |  +--rw warning-threshold?  uint8
      +--ro state
        +--ro max-limit               uint32
        +--ro limit-action            ipi-rib-types:rib_max_route_action_t
        +--ro warning-threshold?      uint8
```


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```
        +--ro threshold-exceeded?       boolean
        +--ro utilization-percentage?   uint32

rpcs:
  +---x clear-ip-vrf-route-all {feature-list:HAVE_VRF}?
  |  +---w input
  |     +---w vrf-name    string
  +---x clear-ip-vrf-route {feature-list:HAVE_VRF}?
  |  +---w input
  |     +---w vrf-name          string
  |     +---w prefix-address    cml-data-types:cml_ipv4_prefix_t
  +---x clear-ipv6-vrf-route-all {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w vrf-name    string
  +---x clear-ipv6-vrf-route {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
     +---w input
        +---w vrf-name              string
        +---w prefix-ipv6-address    cml-data-types:cml_ipv6_prefix_t

notifications:
  +---n vrf-ipv4-fib-routes-above-threshold {feature-list:HAVE_VRF}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro instance-type?        ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?        string
  |  +--ro max-limit?            uint32
  |  +--ro warning-threshold?    uint8
  |  +--ro threshold-exceeded?   boolean
  |  +--ro total-routes?         yang:counter32
  +---n vrf-ipv4-fib-routes-below-threshold {feature-list:HAVE_VRF}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro instance-type?        ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?        string
  |  +--ro max-limit?            uint32
  |  +--ro warning-threshold?    uint8
```

```
  |  +--ro threshold-exceeded?   boolean
  |  +--ro total-routes?         yang:counter32
  +---n vrf-ipv6-fib-routes-above-threshold {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro instance-type?        ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?        string
  |  +--ro max-limit?            uint32
  |  +--ro warning-threshold?    uint8
  |  +--ro threshold-exceeded?   boolean
  |  +--ro total-routes?         yang:counter32
  +---n vrf-ipv6-fib-routes-below-threshold {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro instance-type?        ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?        string
  |  +--ro max-limit?            uint32
  |  +--ro warning-threshold?    uint8
  |  +--ro threshold-exceeded?   boolean
  |  +--ro total-routes?         yang:counter32
  +---n vrf-ipv4-max-fib-routes-limit-reached {feature-list:HAVE_VRF}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro instance-type?    ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?    string
  |  +--ro max-limit?        uint32
  |  +--ro limit-action?     ipi-rib-types:rib_max_route_action_t
  |  +--ro total-routes?     yang:counter32
  +---n vrf-ipv4-max-fib-routes-below-route-limit {feature-list:HAVE_VRF}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro instance-type?    ipi-network-instance-types:net_inst_type_t
  |  +--ro instance-name?    string
  |  +--ro max-limit?        uint32
  |  +--ro limit-action?     ipi-rib-types:rib_max_route_action_t
  |  +--ro total-routes?     yang:counter32
```


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```
+---n vrf-ipv6-max-fib-routes-limit-reached {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
|  +--ro severity?        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?      cml-data-types:cml_notif_class_t
|  +--ro instance-type?   ipi-network-instance-types:net_inst_type_t
|  +--ro instance-name?   string
|  +--ro max-limit?       uint32
|  +--ro limit-action?    ipi-rib-types:rib_max_route_action_t
|  +--ro total-routes?    yang:counter32
+---n vrf-ipv6-max-fib-routes-below-route-limit {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
|  +--ro severity?        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?      cml-data-types:cml_notif_class_t
|  +--ro instance-type?   ipi-network-instance-types:net_inst_type_t
|  +--ro instance-name?   string
|  +--ro max-limit?       uint32
|  +--ro limit-action?    ipi-rib-types:rib_max_route_action_t
|  +--ro total-routes?    yang:counter32
+---n ipv4-hw-fib-full {feature-list:HAVE_VRF}?
|  +--ro severity?        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?      cml-data-types:cml_notif_class_t
|  +--ro instance-type?   ipi-network-instance-types:net_inst_type_t
|  +--ro instance-name?   string
|  +--ro total-routes?    yang:counter32
+---n ipv4-hw-fib-full-cleared {feature-list:HAVE_VRF}?
|  +--ro severity?        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?      cml-data-types:cml_notif_class_t
|  +--ro instance-type?   ipi-network-instance-types:net_inst_type_t
|  +--ro instance-name?   string
|  +--ro total-routes?    yang:counter32
+---n ipv6-hw-fib-full {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
|  +--ro severity?        cml-data-types:cml_notif_severity_t
|  +--ro eventClass?      cml-data-types:cml_notif_class_t
|  +--ro instance-type?   ipi-network-instance-types:net_inst_type_t
|  +--ro instance-name?   string
|  +--ro total-routes?    yang:counter32
+---n ipv6-hw-fib-full-cleared {feature-list:HAVE_VRF,feature-list:HAVE_IPV6}?
   +--ro severity?        cml-data-types:cml_notif_severity_t
```

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```
    +--ro eventClass?      cml-data-types:cml_notif_class_t
    +--ro instance-type?   ipi-network-instance-types:net_inst_type_t
    +--ro instance-name?   string
    +--ro total-routes?    yang:counter32
```

ipi-rib

```
+--rw routing
  +--rw global
  |  +--rw config
  |  |  +--rw fib-retain?                    ipi-rib-types:rib_fib_retain_t {feature-list:HAVE_L3}?
  |  |  +--rw max-ecmp-paths?                uint8 {feature-list:HAVE_MULTIPATH}?
  |  |  +--rw max-static-routes?             uint32
  |  |  +--rw max-fib-routes?                uint32
  |  |  +--rw ipv4-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
  |  |  +--rw ipv6-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
  |  +--ro state
  |  |  +--ro fib-retain?                    ipi-rib-types:rib_fib_retain_t {feature-list:HAVE_L3}?
  |  |  +--ro max-ecmp-paths?                uint8 {feature-list:HAVE_MULTIPATH}?
  |  |  +--ro max-static-routes?             uint32
  |  |  +--ro max-fib-routes?                uint32
  |  |  +--ro ipv4-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD}?
  |  |  +--ro ipv6-enable-bfd-all-interfaces?   empty {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
  |  +--ro counters
  |     +--ro total-routes-ipv4-vrf?   yang:counter32
  |     +--ro total-routes-ipv6-vrf?   yang:counter32
  +--rw debug
  |  +--rw config
  |  |  +--rw rib-options?           ipi-rib-types:rib_conf_debug_t
  |  |  +--rw ipv4-routing-options?   ipi-rib-types:rib_debug_routing_t
  |  |  +--rw ipv6-routing-options?   ipi-rib-types:rib_debug_routing_t
  |  +--ro state
  |     +--ro terminal-debug-status
  |     |  +--ro rib-options?           ipi-rib-types:rib_debug_t
  |     |  +--ro ip-routing-options?     ipi-rib-types:rib_debug_routing_t
  |     |  +--ro ipv6-routing-options?   ipi-rib-types:rib_debug_routing_t
```


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```
|    +--ro rib-options?             ipi-rib-types:rib_conf_debug_t
|    +--ro ipv4-routing-options?    ipi-rib-types:rib_debug_routing_t
|    +--ro ipv6-routing-options?    ipi-rib-types:rib_debug_routing_t
+--rw static-routes
| +--rw ipv4
| | +--rw multicast-routes
| |    +--rw multicast-route* [source-prefix protocol-type]
| |       +--rw source-prefix    -> ../config/source-prefix
| |       +--rw protocol-type    -> ../config/protocol-type
| |       +--rw config
| |       | +--rw source-prefix?     cml-data-types:cml_ipv4_prefix_t
| |       | +--rw protocol-type?     ipi-rib-types:rib_mroute_route_type_t
| |       | +--rw gateway-address    inet:ipv4-address
| |       | +--rw distance?          uint32
| |       +--ro state
| |          +--ro source-prefix?     cml-data-types:cml_ipv4_prefix_t
| |          +--ro protocol-type?     ipi-rib-types:rib_mroute_route_type_t
| |          +--ro gateway-address    inet:ipv4-address
| |          +--ro distance?          uint32
| +--rw ipv6 {feature-list:HAVE_IPV6}?
|    +--rw multicast-routes
|       +--rw multicast-route* [source-prefix protocol-type]
|          +--rw source-prefix    -> ../config/source-prefix
|          +--rw protocol-type    -> ../config/protocol-type
|          +--rw config
|          | +--rw source-prefix?   cml-data-types:cml_ipv6_prefix_t
|          | +--rw protocol-type?   ipi-rib-types:rib_mroute_ipv6_route_type_t
|          +--ro state
|          | +--ro source-prefix?   cml-data-types:cml_ipv6_prefix_t
|          | +--ro protocol-type?   ipi-rib-types:rib_mroute_ipv6_route_type_t
|          +--rw nexthop
|             +--rw config!
|             | +--rw gateway-mroute    inet:ipv6-address
|             | +--rw distance?         uint32
|             +--ro state
|                +--ro gateway-mroute    inet:ipv6-address
```

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```
  |               +--ro distance?         uint32
  +--ro srv6-sid-entries {feature-list:HAVE_SRV6}?
  |  +--ro srv6-sid-entry* [sid]
  |     +--ro sid      -> ../state/sid
  |     +--ro state
  |        +--ro sid?            inet:ipv6-address
  |        +--ro action?         string
  |        +--ro ipv6-nexthop?   inet:ipv6-address
  |        +--ro originator?     string
  |        +--ro type?           string
  |        +--ro uptime?         string
  +--rw interfaces
     +--rw interface* [name] {feature-list:HAVE_BFD}?
        +--rw name      -> ../config/name
        +--rw config
        |  +--rw name?   -> /ipi-interface:interfaces/interface/name
        +--rw state
        |  +--rw name?   -> /ipi-interface:interfaces/interface/name
        +--rw bfd {feature-list:HAVE_BFD}?
           +--rw config
           |  +--rw ipv4-enable-bfd?   ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD}?
           |  +--rw ipv6-enable-bfd?   ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?
           +--ro state
              +--ro ipv4-enable-bfd?   ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD}?
              +--ro ipv6-enable-bfd?   ipi-rib-types:rib_bfd_state {feature-list:HAVE_BFD,feature-list:HAVE_IPV6}?

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:
  +--rw static-routing
     +--rw ipv4
     |  +--rw static-route* [prefix]
     |     +--rw prefix                -> ../config/prefix
     |     +--rw config
     |     |  +--rw prefix?   cml-data-types:cml_ipv4_prefix_t
     |     +--ro state
     |     |  +--ro prefix?   cml-data-types:cml_ipv4_prefix_t
     |     +--rw next-hops-gateway
```


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```
|    | +--rw next-hop-gateway* [gateway]
|    |    +--rw gateway    -> ../config/gateway
|    |    +--rw config
|    |    | +--rw gateway?                  inet:ipv4-address
|    |    | +--rw interface?                string
|    |    | +--rw tag?                      uint32
|    |    | +--rw recursive?                empty
|    |    | +--rw distance?                 uint32
|    |    | +--rw track-id?                 uint16 {feature-list:HAVE_OBJ_TRACKING}?
|    |    | +--rw description?              cml-data-types:cml_line_t
|    |    | +--rw enable-global-table-lookup?   empty
|    |    | +--rw bfd-state?                ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
|    |    +--ro state
|    |      +--ro gateway?                  inet:ipv4-address
|    |      +--ro interface?                string
|    |      +--ro tag?                      uint32
|    |      +--ro recursive?                empty
|    |      +--ro distance?                 uint32
|    |      +--ro track-id?                 uint16 {feature-list:HAVE_OBJ_TRACKING}?
|    |      +--ro description?              cml-data-types:cml_line_t
|    |      +--ro enable-global-table-lookup?   empty
|    |      +--ro bfd-state?                ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
|    +--rw next-hops-interface
|      +--rw next-hop-interface* [interface]
|        +--rw interface    -> ../config/interface
|        +--rw config
|        | +--rw interface?                string
|        | +--rw tag?                      uint32
|        | +--rw distance?                 uint32
|        | +--rw track-id?                 uint16 {feature-list:HAVE_OBJ_TRACKING}?
|        | +--rw description?              cml-data-types:cml_line_t
|        | +--rw enable-global-table-lookup?   empty
|        +--ro state
|          +--ro interface?                string
|          +--ro tag?                      uint32
|          +--ro distance?                 uint32
```

```
|            +--ro track-id?                  uint16 {feature-list:HAVE_OBJ_TRACKING}?
|            +--ro description?               cml-data-types:cml_line_t
|            +--ro enable-global-table-lookup?   empty
+--rw ipv6 {feature-list:HAVE_IPV6}?
  +--rw static-route* [prefix]
    +--rw prefix               -> ../config/prefix
    +--rw config
    | +--rw prefix?   cml-data-types:cml_ipv6_prefix_t
    +--ro state
    | +--ro prefix?   cml-data-types:cml_ipv6_prefix_t
    +--rw next-hops-gateway
    | +--rw next-hop-gateway* [gateway]
    |    +--rw gateway    -> ../config/gateway
    |    +--rw config
    |    | +--rw gateway?                 inet:ipv6-address
    |    | +--rw interface?               string
    |    | +--rw recursive?               empty
    |    | +--rw distance?                uint32
    |    | +--rw track-id?                uint16 {feature-list:HAVE_OBJ_TRACKING}?
    |    | +--rw description?             cml-data-types:cml_line_t
    |    | +--rw enable-global-table-lookup?   empty
    |    | +--rw bfd-state?               ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
    |    +--ro state
    |      +--ro gateway?                 inet:ipv6-address
    |      +--ro interface?               string
    |      +--ro recursive?               empty
    |      +--ro distance?                uint32
    |      +--ro track-id?                uint16 {feature-list:HAVE_OBJ_TRACKING}?
    |      +--ro description?             cml-data-types:cml_line_t
    |      +--ro enable-global-table-lookup?   empty
    |      +--ro bfd-state?               ipi-rib-types:rib_static_bfd_enable_disable_t {feature-list:HAVE_BFD}?
    +--rw next-hops-interface
      +--rw next-hop-interface* [interface]
        +--rw interface    -> ../config/interface
        +--rw config
        | +--rw interface?               string
```


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```
          |  +--rw distance?                  uint32
          |  +--rw track-id?                  uint16 {feature-list:HAVE_OBJ_TRACKING}?
          |  +--rw description?               cml-data-types:cml_line_t
          |  +--rw enable-global-table-lookup?   empty
          +--ro state
             +--ro interface?                 string
             +--ro distance?                  uint32
             +--ro track-id?                  uint16 {feature-list:HAVE_OBJ_TRACKING}?
             +--ro description?               cml-data-types:cml_line_t
             +--ro enable-global-table-lookup?   empty

rpcs:
  +---x rib-snmp-restart {feature-list:HAVE_SNMP}?
  +---x clear-ip-stale-kernel-routes {feature-list:HAVE_RIBD}?
  +---x clear-ipv6-stale-kernel-routes {feature-list:HAVE_IPV6}?
  +---x clear-ip-route-all {feature-list:HAVE_RIBD}?
  +---x clear-ip-route {feature-list:HAVE_RIBD}?
  |  +---w input
  |     +---w prefix-address    cml-data-types:cml_ipv4_prefix_t
  +---x clear-ipv6-route-all {feature-list:HAVE_IPV6}?
  +---x clear-ipv6-route {feature-list:HAVE_IPV6}?
  |  +---w input
  |     +---w prefix-ipv6-address    cml-data-types:cml_ipv6_prefix_t
  +---x rib-terminal-debug-on {feature-list:HAVE_RIBD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-rib-types:rib_debug_t
  +---x rib-terminal-debug-off {feature-list:HAVE_RIBD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-rib-types:rib_debug_t
  +---x rib-terminal-debug-ipv4-routing-on {feature-list:HAVE_RIBD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-rib-types:rib_debug_routing_t
  +---x rib-terminal-debug-ipv4-routing-off {feature-list:HAVE_RIBD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-rib-types:rib_debug_routing_t
  +---x rib-terminal-debug-ipv6-routing-on {feature-list:HAVE_IPV6}?
```

```
  |  +---w input
  |     +---w terminal-debug-options    ipi-rib-types:rib_debug_routing_t
  +---x rib-terminal-debug-ipv6-routing-off {feature-list:HAVE_IPV6}?
     +---w input
        +---w terminal-debug-options    ipi-rib-types:rib_debug_routing_t
```

ipi-rip

```
+--rw rip
   +--rw global
   |  +--rw config
   |  +--ro state
   +--rw debug
   |  +--rw config
   |  |  +--rw options?   ipi-rip-types:rip_debug_t
   |  +--ro state
   |     +--ro options?                ipi-rip-types:rip_debug_t
   |     +--ro terminal-debug-status?   ipi-rip-types:rip_debug_t
   +--rw interfaces
   |  +--rw interface* [name]
   |     +--rw name      -> ../config/name
   |     +--rw config
   |     |  +--rw name?                   -> /ipi-interface:interfaces/interface/name
   |     |  +--rw disable-receive-packet?   empty
   |     |  +--rw disable-send-packet?      empty
   |     |  +--rw receive-version?          ipi-rip-types:rip_version_t
   |     |  +--rw send-version?             ipi-rip-types:rip_version_t
   |     |  +--rw auth-mode?                ipi-rip-types:rip_auth_mode_t
   |     |  +--rw auth-string?              cml-data-types:cml_line_t
   |     |  +--rw auth-keychain?            string
   |     |  +--rw split-horizon?            boolean
   |     +--ro state
   |        +--ro name?                   -> /ipi-interface:interfaces/interface/name
```


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```
|       +--ro disable-receive-packet?   empty
|       +--ro disable-send-packet?      empty
|       +--ro receive-version?          ipi-rip-types:rip_version_t
|       +--ro send-version?             ipi-rip-types:rip_version_t
|       +--ro auth-mode?                ipi-rip-types:rip_auth_mode_t
|       +--ro auth-string?              cml-data-types:cml_line_t
|       +--ro auth-keychain?            string
|       +--ro split-horizon?            boolean
|       +--ro statistics
|          +--ro sent-mcast-updates?          yang:counter32
|          +--ro sent-mcast-requests?         yang:counter32
|          +--ro sent-unicast-updates?        yang:counter32
|          +--ro sent-unicast-requests?       yang:counter32
|          +--ro received-mcast-updates?      yang:counter32
|          +--ro received-mcast-requests?     yang:counter32
|          +--ro received-unicast-updates?    yang:counter32
|          +--ro received-unicast-requests?   yang:counter32
|          +--ro received-bad-packets?        yang:counter32
|          +--ro received-bad-routes?         yang:counter32
+--rw instance
   +--rw config!
   |  +--rw rip-enabled                   empty
   |  +--rw bfd-enable?                   empty {feature-list:HAVE_BFD}?
   |  +--rw receive-buffer-size?          uint32
   |  +--rw passive-interfaces*           -> /ipi-interface:interfaces/interface/name
   |  +--rw static-routes*                cml-data-types:cml_ipv4_prefix_t
   |  +--rw neighbors*                    inet:ipv4-address
   |  +--rw neighbor-fall-over-bfd*       inet:ipv4-address {feature-list:HAVE_BFD}?
   |  +--rw enable-cisco-metric-behavior?   cml-data-types:cml_enable_disable_t
   |  +--rw default-metric?               uint8
   |  +--rw version?                      uint8
   |  +--rw distance?                     uint8
   |  +--rw network-interfaces*           -> /ipi-interface:interfaces/interface/name
   |  +--rw network-routes*               cml-data-types:cml_ipv4_prefix_t
   +--ro state
   |  +--ro rip-enabled                   empty
```

```
|  +--ro bfd-enable?                    empty {feature-list:HAVE_BFD}?
|  +--ro receive-buffer-size?           uint32
|  +--ro passive-interfaces*            -> /ipi-interface:interfaces/interface/name
|  +--ro static-routes*                 cml-data-types:cml_ipv4_prefix_t
|  +--ro neighbors*                     inet:ipv4-address
|  +--ro neighbor-fall-over-bfd*        inet:ipv4-address {feature-list:HAVE_BFD}?
|  +--ro enable-cisco-metric-behavior?  cml-data-types:cml_enable_disable_t
|  +--ro default-metric?                uint8
|  +--ro version?                       uint8
|  +--ro distance?                      uint8
|  +--ro network-interfaces*            -> /ipi-interface:interfaces/interface/name
|  +--ro network-routes*                cml-data-types:cml_ipv4_prefix_t
+--rw distances
|  +--rw distance* [source-prefix]
|     +--rw source-prefix    -> ../config/source-prefix
|     +--rw config
|     |  +--rw source-prefix?      cml-data-types:cml_ipv4_prefix_t
|     |  +--rw distance            uint8
|     |  +--rw access-list-name?   string
|     +--ro state
|        +--ro source-prefix?      cml-data-types:cml_ipv4_prefix_t
|        +--ro distance            uint8
|        +--ro access-list-name?   string
+--rw timers
|  +--rw config!
|  |  +--rw route-table-update-interval    uint32
|  |  +--rw route-info-timeout-interval    uint32
|  |  +--rw garbage-collection-interval    uint32
|  +--ro state
|     +--ro route-table-update-interval    uint32
|     +--ro route-info-timeout-interval    uint32
|     +--ro garbage-collection-interval    uint32
+--rw maximum-prefix
|  +--rw config!
|  |  +--rw max-routes                     uint32
|  |  +--rw warning-threshold-percentage?  uint32
```


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```
|  +--ro state
|     +--ro max-routes                    uint32
|     +--ro warning-threshold-percentage?   uint32
+--rw redistribute-policies
|  +--rw redistribute-policy* [route-type]
|     +--rw route-type    -> ../config/route-type
|     +--rw config
|     |  +--rw route-type?   ipi-rip-types:rip_redistribute_proto_t
|     |  +--rw metric?       uint8
|     |  +--rw route-map?    string
|     +--ro state
|        +--ro route-type?   ipi-rip-types:rip_redistribute_proto_t
|        +--ro metric?       uint8
|        +--ro route-map?    string
+--rw default-information
|  +--rw config!
|  |  +--rw originate          empty
|  |  +--rw always-advertise?   empty
|  |  +--rw route-map?          string
|  +--ro state
|     +--ro originate          empty
|     +--ro always-advertise?   empty
|     +--ro route-map?          string
+--rw offset-lists
|  +--rw offset-list* [direction]
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?          ipi-rip-types:rip_direction_t
|     |  +--rw access-list-name    string
|     |  +--rw metric              uint8
|     +--ro state
|        +--ro direction?          ipi-rip-types:rip_direction_t
|        +--ro access-list-name    string
|        +--ro metric              uint8
+--rw distribute-filter-lists
|  +--rw distribute-filter-list* [direction]
```

```
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?          ipi-rip-types:rip_direction_t
|     |  +--rw access-list-name    string
|     +--ro state
|        +--ro direction?          ipi-rip-types:rip_direction_t
|        +--ro access-list-name    string
+--rw distribute-prefix-lists
|  +--rw distribute-prefix-list* [direction]
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?          ipi-rip-types:rip_direction_t
|     |  +--rw access-list-name    string
|     +--ro state
|        +--ro direction?          ipi-rip-types:rip_direction_t
|        +--ro access-list-name    string
+--rw interfaces
|  +--rw interface* [name]
|     +--rw name                     -> ../config/name
|     +--rw config
|     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
|     +--ro state
|     |  +--ro name?   -> /ipi-interface:interfaces/interface/name
|     +--rw offset-lists
|     |  +--rw offset-list* [direction]
|     |     +--rw direction    -> ../config/direction
|     |     +--rw config
|     |     |  +--rw direction?          ipi-rip-types:rip_direction_t
|     |     |  +--rw access-list-name    string
|     |     |  +--rw metric              uint8
|     |     +--ro state
|     |        +--ro direction?          ipi-rip-types:rip_direction_t
|     |        +--ro access-list-name    string
|     |        +--ro metric              uint8
|     +--rw distribute-filter-lists
|     |  +--rw distribute-filter-list* [direction]
```


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```
|    |    +--rw direction    -> ../config/direction
|    |    +--rw config
|    |    | +--rw direction?         ipi-rip-types:rip_direction_t
|    |    | +--rw access-list-name    string
|    |    +--ro state
|    |      +--ro direction?         ipi-rip-types:rip_direction_t
|    |      +--ro access-list-name    string
|    +--rw distribute-prefix-lists
|      +--rw distribute-prefix-list* [direction]
|        +--rw direction    -> ../config/direction
|        +--rw config
|        | +--rw direction?         ipi-rip-types:rip_direction_t
|        | +--rw access-list-name    string
|        +--ro state
|          +--ro direction?         ipi-rip-types:rip_direction_t
|          +--ro access-list-name    string
+--ro routes
| +--ro route* [prefix]
|    +--ro prefix      -> ../state/prefix
|    +--ro state
|    | +--ro prefix?        cml-data-types:cml_ipv4_prefix_t
|    | +--ro type?          ipi-rip-types:rip_route_type_t
|    | +--ro rip-sub-type?  ipi-rip-types:rip_route_subtype_t
|    | +--ro tag?           uint16
|    +--ro nexthops
|      +--ro nexthop* [address]
|        +--ro address    -> ../state/address
|        +--ro state
|          +--ro address?   inet:ipv4-address
|          +--ro if-name?   string
|          +--ro metric?    uint8
|          +--ro up-time?   string
+--rw vrfs
  +--rw vrf* [vrf-name]
    +--rw vrf-name                -> ../config/vrf-name
    +--rw config
```

```
        | +--rw vrf-name?                    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
        | +--rw enable-cisco-metric-behavior?   cml-data-types:cml_enable_disable_t
        | +--rw default-metric?                 uint8
        | +--rw version?                       uint8
        | +--rw distance?                      uint8
        | +--rw network-interfaces*            -> /ipi-interface:interfaces/interface/name
        | +--rw network-routes*                cml-data-types:cml_ipv4_prefix_t
        +--ro state
        | +--ro vrf-name?                    -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
        | +--ro enable-cisco-metric-behavior?   cml-data-types:cml_enable_disable_t
        | +--ro default-metric?                 uint8
        | +--ro version?                       uint8
        | +--ro distance?                      uint8
        | +--ro network-interfaces*            -> /ipi-interface:interfaces/interface/name
        | +--ro network-routes*                cml-data-types:cml_ipv4_prefix_t
        +--rw distances
        | +--rw distance* [source-prefix]
        |    +--rw source-prefix    -> ../config/source-prefix
        |    +--rw config
        |    | +--rw source-prefix?      cml-data-types:cml_ipv4_prefix_t
        |    | +--rw distance            uint8
        |    | +--rw access-list-name?   string
        |    +--ro state
        |       +--ro source-prefix?      cml-data-types:cml_ipv4_prefix_t
        |       +--ro distance            uint8
        |       +--ro access-list-name?   string
        +--rw redistribute-policies
        | +--rw redistribute-policy* [route-type]
        |    +--rw route-type    -> ../config/route-type
        |    +--rw config
        |    | +--rw route-type?   ipi-rip-types:rip_vrf_redistribute_proto_t
        |    | +--rw metric?       uint8
        |    | +--rw route-map?    string
        |    +--ro state
        |       +--ro route-type?   ipi-rip-types:rip_vrf_redistribute_proto_t
```


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```
|       +--ro metric?       uint8
|       +--ro route-map?    string
+--rw default-information
|  +--rw config!
|  |  +--rw originate           empty
|  |  +--rw always-advertise?   empty
|  |  +--rw route-map?          string
|  +--ro state
|     +--ro originate           empty
|     +--ro always-advertise?   empty
|     +--ro route-map?          string
+--rw offset-lists
|  +--rw offset-list* [direction]
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?          ipi-rip-types:rip_direction_t
|     |  +--rw access-list-name    string
|     |  +--rw metric              uint8
|     +--ro state
|        +--ro direction?          ipi-rip-types:rip_direction_t
|        +--ro access-list-name    string
|        +--ro metric              uint8
+--rw distribute-filter-lists
|  +--rw distribute-filter-list* [direction]
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?          ipi-rip-types:rip_direction_t
|     |  +--rw access-list-name    string
|     +--ro state
|        +--ro direction?          ipi-rip-types:rip_direction_t
|        +--ro access-list-name    string
+--rw distribute-prefix-lists
|  +--rw distribute-prefix-list* [direction]
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?          ipi-rip-types:rip_direction_t
```

```
|    | +--rw access-list-name    string
|    +--ro state
|      +--ro direction?         ipi-rip-types:rip_direction_t
|      +--ro access-list-name    string
+--rw interfaces
| +--rw interface* [name]
|    +--rw name                    -> ../config/name
|    +--rw config
|    | +--rw name?   -> /ipi-interface:interfaces/interface/name
|    +--ro state
|    | +--ro name?   -> /ipi-interface:interfaces/interface/name
|    +--rw offset-lists
|    | +--rw offset-list* [direction]
|    |    +--rw direction    -> ../config/direction
|    |    +--rw config
|    |    | +--rw direction?         ipi-rip-types:rip_direction_t
|    |    | +--rw access-list-name    string
|    |    | +--rw metric              uint8
|    |    +--ro state
|    |      +--ro direction?         ipi-rip-types:rip_direction_t
|    |      +--ro access-list-name    string
|    |      +--ro metric              uint8
|    +--rw distribute-filter-lists
|    | +--rw distribute-filter-list* [direction]
|    |    +--rw direction    -> ../config/direction
|    |    +--rw config
|    |    | +--rw direction?         ipi-rip-types:rip_direction_t
|    |    | +--rw access-list-name    string
|    |    +--ro state
|    |      +--ro direction?         ipi-rip-types:rip_direction_t
|    |      +--ro access-list-name    string
|    +--rw distribute-prefix-lists
|      +--rw distribute-prefix-list* [direction]
|        +--rw direction    -> ../config/direction
|        +--rw config
|        | +--rw direction?         ipi-rip-types:rip_direction_t
```


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```
|          | +--rw access-list-name    string
|          +--ro state
|            +--ro direction?          ipi-rip-types:rip_direction_t
|            +--ro access-list-name    string
+--ro routes
  +--ro route* [prefix]
    +--ro prefix      -> ../state/prefix
    +--ro state
    | +--ro prefix?         cml-data-types:cml_ipv4_prefix_t
    | +--ro type?           ipi-rip-types:rip_route_type_t
    | +--ro rip-sub-type?   ipi-rip-types:rip_route_subtype_t
    | +--ro tag?            uint16
    +--ro nexthops
      +--ro nexthop* [address]
        +--ro address    -> ../state/address
        +--ro state
          +--ro address?   inet:ipv4-address
          +--ro if-name?   string
          +--ro metric?    uint8
          +--ro up-time?   string

rpcs:
  +---x rip-vrf-clear-route {feature-list:HAVE_VRF_RIP,feature-list:HAVE_RIPD}?
  | +---w input
  |    +---w vrf-name    string
  |    +---w prefix      cml-data-types:cml_ipv4_prefix_t
  +---x rip-vrf-clear-route-all {feature-list:HAVE_VRF_RIP,feature-list:HAVE_RIPD}?
  | +---w input
  |    +---w vrf-name    string
  +---x rip-clear-route {feature-list:HAVE_RIPD}?
  | +---w input
  |    +---w route-type    ipi-rip-types:rip_redistribute_proto_clear_t
  +---x rip-clear-route-prefix {feature-list:HAVE_RIPD}?
  | +---w input
  |    +---w prefix-address    cml-data-types:cml_ipv4_prefix_t
  +---x rip-clear-statistics {feature-list:HAVE_RIPD}?
```

```
  |  +---w input
  |     +---w name    string
  +---x rip-snmp-restart {feature-list:HAVE_SNMP}?
  +---x rip-terminal-debugging-on {feature-list:HAVE_RIPD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-rip-types:rip_debug_t
  +---x rip-terminal-debugging-off {feature-list:HAVE_RIPD}?
     +---w input
        +---w terminal-debug-options    ipi-rip-types:rip_debug_t
```

ipi-ripng

```
 +--rw ripng
    +--rw debug
    |  +--rw config
    |  |  +--rw options?   ipi-ripng-types:ripng_debug_t
    |  +--ro state
    |     +--ro options?                 ipi-ripng-types:ripng_debug_t
    |     +--ro terminal-debug-status?   ipi-ripng-types:ripng_debug_t
    +--rw interfaces
    |  +--rw interface* [name]
    |     +--rw name      -> ../config/name
    |     +--rw config
    |     |  +--rw name?            -> /ipi-interface:interfaces/interface/name
    |     |  +--rw enabled?         empty
    |     |  +--rw split-horizon?   boolean
    |     |  +--rw metric-offset?   uint8
    |     +--ro state
    |        +--ro name?            -> /ipi-interface:interfaces/interface/name
    |        +--ro enabled?         empty
    |        +--ro split-horizon?   boolean
    |        +--ro metric-offset?   uint8
    +--rw instance
```


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```
+--rw config!
|  +--rw ripng-enabled                 empty
|  +--rw passive-interfaces*           -> /ipi-interface:interfaces/interface/name
|  +--rw distance?                     uint8
|  +--rw static-routes*                cml-data-types:cml_ipv6_prefix_t
|  +--rw aggregate-prefixes*           cml-data-types:cml_ipv6_prefix_t
|  +--rw default-metric?               uint8
|  +--rw originate-default-route?      empty
|  +--rw enable-cisco-metric-behavior?   boolean
|  +--rw receive-buffer-size?          uint32
+--ro state
|  +--ro ripng-enabled                 empty
|  +--ro passive-interfaces*           -> /ipi-interface:interfaces/interface/name
|  +--ro distance?                     uint8
|  +--ro static-routes*                cml-data-types:cml_ipv6_prefix_t
|  +--ro aggregate-prefixes*           cml-data-types:cml_ipv6_prefix_t
|  +--ro default-metric?               uint8
|  +--ro originate-default-route?      empty
|  +--ro enable-cisco-metric-behavior?   boolean
|  +--ro receive-buffer-size?          uint32
+--rw redistribute-policies
|  +--rw redistribute-policy* [route-type]
|     +--rw route-type    -> ../config/route-type
|     +--rw config
|     |  +--rw route-type?   ipi-ripng-types:ripng_redistribute_proto_t
|     |  +--rw metric?       uint8
|     |  +--rw route-map?    string
|     +--ro state
|        +--ro route-type?   ipi-ripng-types:ripng_redistribute_proto_t
|        +--ro metric?       uint8
|        +--ro route-map?    string
+--rw timers
|  +--rw config!
|  |  +--rw route-table-update-interval    uint32
|  |  +--rw route-info-timeout-interval    uint32
|  |  +--rw garbage-collection-interval    uint32
```

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```
|  +--ro state
|     +--ro route-table-update-interval    uint32
|     +--ro route-info-timeout-interval    uint32
|     +--ro garbage-collection-interval    uint32
+--rw neighbors
|  +--rw neighbor* [address]
|     +--rw address    -> ../config/address
|     +--rw config
|     |  +--rw address?   inet:ipv6-address
|     |  +--rw if-name    -> /ipi-interface:interfaces/interface/name
|     +--ro state
|        +--ro address?   inet:ipv6-address
|        +--ro if-name    -> /ipi-interface:interfaces/interface/name
+--rw interfaces
|  +--rw interface* [name]
|     +--rw name                    -> ../config/name
|     +--rw config
|     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
|     +--ro state
|     |  +--ro name?   -> /ipi-interface:interfaces/interface/name
|     +--rw filtering-route-maps
|     |  +--rw filtering-route-map* [type]
|     |     +--rw type      -> ../config/type
|     |     +--rw config
|     |     |  +--rw type?             ipi-ripng-types:ripng_direction_t
|     |     |  +--rw route-map-name    string
|     |     +--ro state
|     |        +--ro type?             ipi-ripng-types:ripng_direction_t
|     |        +--ro route-map-name    string
|     +--rw offset-lists
|     |  +--rw offset-list* [direction]
|     |     +--rw direction    -> ../config/direction
|     |     +--rw config
|     |     |  +--rw direction?          ipi-ripng-types:ripng_direction_t
|     |     |  +--rw access-list-name    string
|     |     |  +--rw metric              uint8
```


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```
|    |    +--ro state
|    |       +--ro direction?          ipi-ripng-types:ripng_direction_t
|    |       +--ro access-list-name    string
|    |       +--ro metric              uint8
|    +--rw distribute-lists
|    |  +--rw distribute-list* [direction]
|    |    +--rw direction    -> ../config/direction
|    |    +--rw config
|    |    |  +--rw direction?          ipi-ripng-types:ripng_direction_t
|    |    |  +--rw access-list-name    string
|    |    +--ro state
|    |       +--ro direction?          ipi-ripng-types:ripng_direction_t
|    |       +--ro access-list-name    string
|    +--rw distribute-prefix-lists
|       +--rw distribute-prefix-list* [direction]
|          +--rw direction    -> ../config/direction
|          +--rw config
|          |  +--rw direction?   ipi-ripng-types:ripng_direction_t
|          |  +--rw list-name    string
|          +--ro state
|             +--ro direction?   ipi-ripng-types:ripng_direction_t
|             +--ro list-name    string
+--rw offset-lists
|  +--rw offset-list* [direction]
|    +--rw direction    -> ../config/direction
|    +--rw config
|    |  +--rw direction?          ipi-ripng-types:ripng_direction_t
|    |  +--rw access-list-name    string
|    |  +--rw metric              uint8
|    +--ro state
|       +--ro direction?          ipi-ripng-types:ripng_direction_t
|       +--ro access-list-name    string
|       +--ro metric              uint8
+--rw distribute-lists
|  +--rw distribute-list* [direction]
|    +--rw direction    -> ../config/direction
```

```
|    +--rw config
|    |  +--rw direction?          ipi-ripng-types:ripng_direction_t
|    |  +--rw access-list-name    string
|    +--ro state
|       +--ro direction?          ipi-ripng-types:ripng_direction_t
|       +--ro access-list-name    string
+--rw distribute-prefix-lists
|  +--rw distribute-prefix-list* [direction]
|    +--rw direction    -> ../config/direction
|    +--rw config
|    |  +--rw direction?   ipi-ripng-types:ripng_direction_t
|    |  +--rw list-name    string
|    +--ro state
|       +--ro direction?   ipi-ripng-types:ripng_direction_t
|       +--ro list-name    string
+--ro routes
|  +--ro route* [prefix]
|    +--ro prefix             -> ../state/prefix
|    +--ro state
|    |  +--ro prefix?     cml-data-types:cml_ipv6_prefix_t
|    |  +--ro type?       ipi-ripng-types:ripng_route_type_t
|    |  +--ro sub-type?   ipi-ripng-types:ripng_route_sub_type_t
|    |  +--ro tag?        uint16
|    +--ro next-hops
|    |  +--ro next-hop* [address]
|    |     +--ro address    -> ../state/address
|    |     +--ro state
|    |        +--ro address?   inet:ipv6-address
|    |        +--ro if-name?   string
|    |        +--ro metric?    uint8
|    |        +--ro up-time?   string
|    +--ro aggregate-route
|       +--ro state
|          +--ro count?    uint32
|          +--ro metric?   uint8
|          +--ro tag?      uint16
```


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```
      +--rw vrfs
        +--rw vrf* [vrf-name]
          +--rw vrf-name                -> ../config/vrf-name
          +--rw config
          | +--rw vrf-name?                 -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
          | +--rw passive-interfaces*          -> /ipi-interface:interfaces/interface/name
          | +--rw distance?                   uint8
          | +--rw static-routes*             cml-data-types:cml_ipv6_prefix_t
          | +--rw aggregate-prefixes*          cml-data-types:cml_ipv6_prefix_t
          | +--rw default-metric?              uint8
          | +--rw originate-default-route?      empty
          | +--rw enable-cisco-metric-behavior?   boolean
          | +--rw receive-buffer-size?         uint32
          +--ro state
          | +--ro vrf-name?                   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/
vrf-name
          | +--ro passive-interfaces*          -> /ipi-interface:interfaces/interface/name
          | +--ro distance?                   uint8
          | +--ro static-routes*             cml-data-types:cml_ipv6_prefix_t
          | +--ro aggregate-prefixes*          cml-data-types:cml_ipv6_prefix_t
          | +--ro default-metric?              uint8
          | +--ro originate-default-route?      empty
          | +--ro enable-cisco-metric-behavior?   boolean
          | +--ro receive-buffer-size?         uint32
          +--rw redistribute-policies
          | +--rw redistribute-policy* [route-type]
          |    +--rw route-type    -> ../config/route-type
          |    +--rw config
          |    | +--rw route-type?   ipi-ripng-types:ripng_vrf_redistribute_proto_t
          |    | +--rw metric?       uint8
          |    | +--rw route-map?    string
          |    +--ro state
          |       +--ro route-type?   ipi-ripng-types:ripng_vrf_redistribute_proto_t
          |       +--ro metric?       uint8
          |       +--ro route-map?    string
          +--rw timers
```

```
|  +--rw config!
|  |  +--rw route-table-update-interval    uint32
|  |  +--rw route-info-timeout-interval    uint32
|  |  +--rw garbage-collection-interval    uint32
|  +--ro state
|     +--ro route-table-update-interval    uint32
|     +--ro route-info-timeout-interval    uint32
|     +--ro garbage-collection-interval    uint32
+--rw neighbors
|  +--rw neighbor* [address]
|     +--rw address    -> ../config/address
|     +--rw config
|     |  +--rw address?   inet:ipv6-address
|     |  +--rw if-name    -> /ipi-interface:interfaces/interface/name
|     +--ro state
|        +--ro address?   inet:ipv6-address
|        +--ro if-name    -> /ipi-interface:interfaces/interface/name
+--rw interfaces
|  +--rw interface* [name]
|     +--rw name                    -> ../config/name
|     +--rw config
|     |  +--rw name?   -> /ipi-interface:interfaces/interface/name
|     +--ro state
|     |  +--ro name?   -> /ipi-interface:interfaces/interface/name
|     +--rw filtering-route-maps
|     |  +--rw filtering-route-map* [type]
|     |     +--rw type      -> ../config/type
|     |     +--rw config
|     |     |  +--rw type?            ipi-ripng-types:ripng_direction_t
|     |     |  +--rw route-map-name    string
|     |     +--ro state
|     |        +--ro type?            ipi-ripng-types:ripng_direction_t
|     |        +--ro route-map-name    string
|     +--rw offset-lists
|     |  +--rw offset-list* [direction]
|     |     +--rw direction    -> ../config/direction
```


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```
|    |    +--rw config
|    |    | +--rw direction?          ipi-ripng-types:ripng_direction_t
|    |    | +--rw access-list-name    string
|    |    | +--rw metric              uint8
|    |    +--ro state
|    |      +--ro direction?          ipi-ripng-types:ripng_direction_t
|    |      +--ro access-list-name    string
|    |      +--ro metric              uint8
|    +--rw distribute-lists
|    | +--rw distribute-list* [direction]
|    |    +--rw direction    -> ../config/direction
|    |    +--rw config
|    |    | +--rw direction?          ipi-ripng-types:ripng_direction_t
|    |    | +--rw access-list-name    string
|    |    +--ro state
|    |      +--ro direction?          ipi-ripng-types:ripng_direction_t
|    |      +--ro access-list-name    string
|    +--rw distribute-prefix-lists
|      +--rw distribute-prefix-list* [direction]
|        +--rw direction    -> ../config/direction
|        +--rw config
|        | +--rw direction?   ipi-ripng-types:ripng_direction_t
|        | +--rw list-name    string
|        +--ro state
|          +--ro direction?   ipi-ripng-types:ripng_direction_t
|          +--ro list-name    string
+--rw offset-lists
| +--rw offset-list* [direction]
|    +--rw direction    -> ../config/direction
|    +--rw config
|    | +--rw direction?          ipi-ripng-types:ripng_direction_t
|    | +--rw access-list-name    string
|    | +--rw metric              uint8
|    +--ro state
|      +--ro direction?          ipi-ripng-types:ripng_direction_t
|      +--ro access-list-name    string
```

```
|       +--ro metric              uint8
+--rw distribute-lists
|  +--rw distribute-list* [direction]
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?          ipi-ripng-types:ripng_direction_t
|     |  +--rw access-list-name    string
|     +--ro state
|        +--ro direction?          ipi-ripng-types:ripng_direction_t
|        +--ro access-list-name    string
+--rw distribute-prefix-lists
|  +--rw distribute-prefix-list* [direction]
|     +--rw direction    -> ../config/direction
|     +--rw config
|     |  +--rw direction?   ipi-ripng-types:ripng_direction_t
|     |  +--rw list-name    string
|     +--ro state
|        +--ro direction?   ipi-ripng-types:ripng_direction_t
|        +--ro list-name    string
+--ro routes
   +--ro route* [prefix]
      +--ro prefix             -> ../state/prefix
      +--ro state
      |  +--ro prefix?     cml-data-types:cml_ipv6_prefix_t
      |  +--ro type?       ipi-ripng-types:ripng_route_type_t
      |  +--ro sub-type?   ipi-ripng-types:ripng_route_sub_type_t
      |  +--ro tag?        uint16
      +--ro next-hops
      |  +--ro next-hop* [address]
      |     +--ro address    -> ../state/address
      |     +--ro state
      |        +--ro address?   inet:ipv6-address
      |        +--ro if-name?   string
      |        +--ro metric?    uint8
      |        +--ro up-time?   string
      +--ro aggregate-route
```


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```
                +--ro state
                  +--ro count?    uint32
                  +--ro metric?   uint8
                  +--ro tag?      uint16

rpcs:
  +---x ripng-terminal-debug-on {feature-list:HAVE_RIPNGD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-ripng-types:ripng_debug_t
  +---x ripng-terminal-debug-off {feature-list:HAVE_RIPNGD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-ripng-types:ripng_debug_t
  +---x ripng-clear-route {feature-list:HAVE_RIPNGD}?
  |  +---w input
  |     +---w type    ipi-ripng-types:ripng_clear_route_type_t
  +---x ripng-clear-route-prefix {feature-list:HAVE_RIPNGD}?
     +---w input
        +---w prefix    cml-data-types:cml_ipv6_prefix_t
```

ipi-role-based-access-control

```
+--rw role-based-access-control
   +--rw config
   |  +--rw enable?   empty
   +--ro state
   |  +--ro enable?   empty
   +--rw policies
   |  +--rw policy* [policy-name]
   |     +--rw policy-name    -> ../config/policy-name
   |     +--rw config
   |     |  +--rw policy-name?   string
   |     +--ro state
   |     |  +--ro policy-name?   string
   |     +--rw rules
   |        +--rw rule* [rule-name]
```

```
|          +--rw rule-name    -> ../config/rule-name
|          +--rw config
|          |  +--rw rule-name?      cml-data-types:cml_line_t
|          |  +--rw rule-type       ipi-role-based-access-control-types:rbac_rule_type_t
|          |  +--rw command-mode*   string
|          +--ro state
|             +--ro rule-name?      cml-data-types:cml_line_t
|             +--ro rule-type       ipi-role-based-access-control-types:rbac_rule_type_t
|             +--ro command-mode*   string
+--rw roles
   +--rw role* [role-name]
      +--rw role-name    -> ../config/role-name
      +--rw config
      |  +--rw role-name?        string
      |  +--rw default-policy?   ipi-role-based-access-control-types:rbac_default_rule_type_t
      +--ro state
      |  +--ro role-name?        string
      |  +--ro default-policy?   ipi-role-based-access-control-types:rbac_default_rule_type_t
      +--rw policies
         +--rw policy* [policy-name]
            +--rw policy-name    -> ../config/policy-name
            +--rw config
            |  +--rw policy-name?   -> /role-based-access-control/policies/policy/policy-name
            +--ro state
               +--ro policy-name?   -> /role-based-access-control/policies/policy/policy-name
```

ipi-routemap

```
+--rw routemaps
   +--rw routemap* [routemap-name sequence-id]
      +--rw routemap-name        -> ../config/routemap-name
      +--rw sequence-id          -> ../config/sequence-id
      +--rw config
      |  +--rw routemap-name?   string
      |  +--rw action           ipi-routemap-types:rmap_action_type_t
```


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```
  | +--rw sequence-id?     uint32
  +--ro state
  | +--ro routemap-name?   string
  | +--ro action           ipi-routemap-types:rmap_action_type_t
  | +--ro sequence-id?     uint32
  +--rw continue-on-match
  | +--rw config
  | | +--rw continue-to-next-sequence?   empty
  | | +--rw next-sequence-number?        uint32
  | +--ro state
  |   +--ro continue-to-next-sequence?   empty
  |   +--ro next-sequence-number?        uint32
  +--rw match-condition
  | +--rw config
  | | +--rw interface-name?         -> /ipi-interface:interfaces/interface/name
  | | +--rw metric?                 uint32
  | | +--rw vlan-id?                cml-data-types:cml_range_t {feature-list:HAVE_VLAN,feature-list:HAVE_PBR}?
  | | +--rw mac-access-list-name?   string {feature-list:HAVE_PBR}?
  | | +--rw tag?                    uint32
  | | +--rw route-type?             ipi-routemap-types:rmap_route_type_t
  | | +--rw as-path-name?           string
  | | +--rw route-origin?           ipi-routemap-types:rmap_origin_type_t
  | | +--rw rpki-state?             ipi-routemap-types:rmap_rpki_state_type_t {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
  | | +--rw evpn-route-type?        ipi-routemap-types:rmap_evpn_route_type_t
  | | +--rw route-map*              -> /routemaps/routemap/routemap-name
  | +--ro state
  | | +--ro interface-name?         -> /ipi-interface:interfaces/interface/name
  | | +--ro metric?                 uint32
  | | +--ro vlan-id?                cml-data-types:cml_range_t {feature-list:HAVE_VLAN,feature-list:HAVE_PBR}?
  | | +--ro mac-access-list-name?   string {feature-list:HAVE_PBR}?
  | | +--ro tag?                    uint32
  | | +--ro route-type?             ipi-routemap-types:rmap_route_type_t
  | | +--ro as-path-name?           string
  | | +--ro route-origin?           ipi-routemap-types:rmap_origin_type_t
  | | +--ro rpki-state?             ipi-routemap-types:rmap_rpki_state_type_t {feature-
list:HAVE_BGP_RPKI_ORIGIN_VALIDATION}?
```

```
| | +--ro evpn-route-type?        ipi-routemap-types:rmap_evpn_route_type_t
| | +--ro route-map*              -> /routemaps/routemap/routemap-name
| +--rw route-filter {feature-list:HAVE_PBR}?
| | +--rw packet-length-constraints* [packet-min-length packet-max-length] {feature-list:HAVE_PBR}?
| |   +--rw packet-min-length    -> ../config/packet-min-length
| |   +--rw packet-max-length    -> ../config/packet-max-length
| |   +--rw config
| |   | +--rw packet-min-length?   uint16
| |   | +--rw packet-max-length?   uint16
| |   +--ro state
| |     +--ro packet-min-length?   uint16
| |     +--ro packet-max-length?   uint16
| +--rw communities
| | +--rw community* [community-identifier]
| |   +--rw community-identifier    -> ../config/community-identifier
| |   +--rw config
| |   | +--rw community-identifier?   ipi-routemap-types:rmap_community_string_t
| |   | +--rw match-type              ipi-routemap-types:rmap_community_type_t
| |   +--ro state
| |     +--ro community-identifier?   ipi-routemap-types:rmap_community_string_t
| |     +--ro match-type              ipi-routemap-types:rmap_community_type_t
| +--rw extended-communities
| | +--rw extended-community* [extended-community-identifier]
| |   +--rw extended-community-identifier    -> ../config/extended-community-identifier
| |   +--rw config
| |   | +--rw extended-community-identifier?   ipi-routemap-types:rmap_extcommunity_string_t
| |   | +--rw match-type                       ipi-routemap-types:rmap_extcommunity_type_t
| |   +--ro state
| |     +--ro extended-community-identifier?   ipi-routemap-types:rmap_extcommunity_string_t
| |     +--ro match-type                       ipi-routemap-types:rmap_extcommunity_type_t
| +--rw match-communities
| | +--rw match-community* [large-community-list-identifier]
| |   +--rw large-community-list-identifier    -> ../config/large-community-list-identifier
| |   +--rw config
| |   | +--rw large-community-list-identifier?   ipi-routemap-types:rmap_large_community_string_t
| |   | +--rw match-type                         ipi-routemap-types:rmap_community_type_t
```


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```
| |    +--ro state
| |       +--ro large-community-list-identifier?   ipi-routemap-types:rmap_large_community_string_t
| |       +--ro match-type                         ipi-routemap-types:rmap_community_type_t
| +--rw ipv4
| | +--rw config
| | | +--rw ip-access-list-name?         string
| | | +--rw ip-prefix-list-name?         string
| | | +--rw peer-access-list-name?       string
| | | +--rw next-hop-prefix-list-name?   string
| | | +--rw next-hop-access-list-name?   string
| | +--ro state
| | |  +--ro ip-access-list-name?         string
| | |  +--ro ip-prefix-list-name?         string
| | |  +--ro peer-access-list-name?       string
| | |  +--ro next-hop-prefix-list-name?   string
| | |  +--ro next-hop-access-list-name?   string
| +--rw ipv6 {feature-list:HAVE_IPV6}?
| | +--rw config {feature-list:HAVE_IPV6}?
| | | +--rw ipv6-address-access-list-name?   string
| | | +--rw ipv6-prefix-list-name?           string
| | | +--rw peer-access-list-name?           string
| | | +--rw next-hop-prefix-list-name?       string
| | | +--rw next-hop-match-string?           ipi-routemap-types:rmap_ipv6_nexthop_t
| | +--ro state
| | |  +--ro ipv6-address-access-list-name?   string
| | |  +--ro ipv6-prefix-list-name?           string
| | |  +--ro peer-access-list-name?           string
| | |  +--ro next-hop-prefix-list-name?       string
| | |  +--ro next-hop-match-string?           ipi-routemap-types:rmap_ipv6_nexthop_t
| +--rw mac
|    +--rw config
|    | +--rw mac-list-name?   string
|    +--ro state
|       +--ro mac-list-name?   string
+--rw set-action
  +--rw config
```

```
|  +--rw forward-interface-type?         ipi-routemap-types:rmap_forward_interface_type_t
|  +--rw metric-value?                   string
|  +--rw route-tag?                      uint32
|  +--rw weight?                         uint32
|  +--rw local-preference?               uint32
|  +--rw route-origin-type?              ipi-routemap-types:rmap_origin_type_t
|  +--rw metric-type?                    ipi-routemap-types:rmap_metric_type_t
|  +--rw aigp-metric?                    ipi-routemap-types:aigp_metric_type_t {feature-list:HAVE_BGP_AIGP}?
|  +--rw level-type?                     ipi-routemap-types:rmap_level_type_t
|  +--rw enable-as-path-tag?             empty
|  +--rw atomic-aggregate?               empty
|  +--rw delete-community-value?         ipi-routemap-types:rmap_community_string_t
|  +--rw delete-large-community-value?   ipi-routemap-types:rmap_community_string_t
|  +--rw bgp-originator-id?              inet:ipv4-address
|  +--rw as-path-prepend?                cml-data-types:cml_line_t
|  +--rw ext-community-site-of-origin?   cml-data-types:cml_line_t
|  +--rw ext-community-color?            uint32
+--ro state
|  +--ro forward-interface-type?         ipi-routemap-types:rmap_forward_interface_type_t
|  +--ro metric-value?                   string
|  +--ro route-tag?                      uint32
|  +--ro weight?                         uint32
|  +--ro local-preference?               uint32
|  +--ro route-origin-type?              ipi-routemap-types:rmap_origin_type_t
|  +--ro metric-type?                    ipi-routemap-types:rmap_metric_type_t
|  +--ro aigp-metric?                    ipi-routemap-types:aigp_metric_type_t {feature-list:HAVE_BGP_AIGP}?
|  +--ro level-type?                     ipi-routemap-types:rmap_level_type_t
|  +--ro enable-as-path-tag?             empty
|  +--ro atomic-aggregate?               empty
|  +--ro delete-community-value?         ipi-routemap-types:rmap_community_string_t
|  +--ro delete-large-community-value?   ipi-routemap-types:rmap_community_string_t
|  +--ro bgp-originator-id?              inet:ipv4-address
|  +--ro as-path-prepend?                cml-data-types:cml_line_t
|  +--ro ext-community-site-of-origin?   cml-data-types:cml_line_t
|  +--ro ext-community-color?            uint32
+--rw ipv4
```


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```
|  +--rw config
|  |  +--rw ip-nexthop-address?        inet:ipv4-address
|  |  +--rw use-peer-address?          empty
|  |  +--rw ip-nexthop-self?           empty
|  |  +--rw default-nexthop-address?   inet:ipv4-address {feature-list:HAVE_PBR}?
|  |  +--rw vpnv4-nexthop-address?     inet:ipv4-address {feature-list:HAVE_VRF}?
|  |  +--rw verify-availability?       empty {feature-list:HAVE_OBJ_TRACKING}?
|  |  +--rw track-id?                  uint16 {feature-list:HAVE_OBJ_TRACKING}?
|  +--ro state
|     +--ro ip-nexthop-address?        inet:ipv4-address
|     +--ro use-peer-address?          empty
|     +--ro ip-nexthop-self?           empty
|     +--ro default-nexthop-address?   inet:ipv4-address {feature-list:HAVE_PBR}?
|     +--ro vpnv4-nexthop-address?     inet:ipv4-address {feature-list:HAVE_VRF}?
|     +--ro verify-availability?       empty {feature-list:HAVE_OBJ_TRACKING}?
|     +--ro track-id?                  uint16 {feature-list:HAVE_OBJ_TRACKING}?
+--rw ipv6
|  +--rw config
|  |  +--rw ipv6-nexthop-address?           inet:ipv6-address {feature-list:HAVE_IPV6}?
|  |  +--rw default-ipv6-nexthop-address?   inet:ipv6-address {feature-list:HAVE_PBR,feature-list:HAVE_IPV6}?
|  |  +--rw local-ipv6-nexthop-address?     inet:ipv6-address {feature-list:HAVE_IPV6}?
|  |  +--rw verify-availability?            empty {feature-list:HAVE_OBJ_TRACKING}?
|  |  +--rw track-id?                       uint16 {feature-list:HAVE_OBJ_TRACKING}?
|  +--ro state
|     +--ro ipv6-nexthop-address?           inet:ipv6-address {feature-list:HAVE_IPV6}?
|     +--ro default-ipv6-nexthop-address?   inet:ipv6-address {feature-list:HAVE_PBR,feature-list:HAVE_IPV6}?
|     +--ro local-ipv6-nexthop-address?     inet:ipv6-address {feature-list:HAVE_IPV6}?
|     +--ro verify-availability?            empty {feature-list:HAVE_OBJ_TRACKING}?
|     +--ro track-id?                       uint16 {feature-list:HAVE_OBJ_TRACKING}?
+--rw bgp-aggregator-attributes
|  +--rw bgp-aggregator-attribute* [as-number aggregator-ip-address]
|     +--rw as-number                -> ../config/as-number
|     +--rw aggregator-ip-address    -> ../config/aggregator-ip-address
|     +--rw config
|     |  +--rw as-number?            uint32
|     |  +--rw aggregator-ip-address?   inet:ipv4-address
```

```
|    +--ro state
|       +--ro as-number?              uint32
|       +--ro aggregator-ip-address?   inet:ipv4-address
+--rw extended-community
| +--rw route-targets
| | +--rw route-target* [ext-community-rt]
| |    +--rw ext-community-rt    -> ../config/ext-community-rt
| |    +--rw config
| |    | +--rw ext-community-rt?   cml-data-types:cml_line_t
| |    | +--rw additive-type       ipi-routemap-types:rmap_additive_type_t
| |    +--ro state
| |       +--ro ext-community-rt?   cml-data-types:cml_line_t
| |       +--ro additive-type       ipi-routemap-types:rmap_additive_type_t
| +--rw costs
|    +--rw cost* [comparison-type community-id cost-value]
|       +--rw comparison-type    -> ../config/comparison-type
|       +--rw community-id       -> ../config/community-id
|       +--rw cost-value         -> ../config/cost-value
|       +--rw config
|       | +--rw comparison-type?   ipi-routemap-types:rmap_ext_cost_type_t
|       | +--rw community-id?      uint8
|       | +--rw cost-value?        uint32
|       +--ro state
|          +--ro comparison-type?   ipi-routemap-types:rmap_ext_cost_type_t
|          +--ro community-id?      uint8
|          +--ro cost-value?        uint32
+--rw dampening
| +--rw config!
| | +--rw enable-dampening                empty
| | +--rw reachability-half-life-time?    uint8
| | +--rw reuse-time-limit?               uint16
| | +--rw suppress-time-limit?            uint16
| | +--rw max-suppress-time-limit?        uint8
| | +--rw unreachability-half-life-time?  uint8
| +--ro state
|    +--ro enable-dampening                empty
```


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```
|    +--ro reachability-half-life-time?     uint8
|    +--ro reuse-time-limit?                uint16
|    +--ro suppress-time-limit?             uint16
|    +--ro max-suppress-time-limit?         uint8
|    +--ro unreachability-half-life-time?   uint8
+--rw communities
| +--rw config
| | +--rw enable-internet?            empty
| | +--rw enable-local-as?            empty
| | +--rw enable-blackhole?           empty
| | +--rw enable-no-advertise?        empty
| | +--rw enable-no-export?           empty
| | +--rw no-community-attribute?     empty
| | +--rw additive-set?               empty
| | +--rw community-number?           cml-data-types:cml_line_t
| | +--rw community-with-as-number?   cml-data-types:cml_line_t
| +--ro state
|    +--ro enable-internet?            empty
|    +--ro enable-local-as?            empty
|    +--ro enable-blackhole?           empty
|    +--ro enable-no-advertise?        empty
|    +--ro enable-no-export?           empty
|    +--ro no-community-attribute?     empty
|    +--ro additive-set?               empty
|    +--ro community-number?           cml-data-types:cml_line_t
|    +--ro community-with-as-number?   cml-data-types:cml_line_t
+--rw large-communities
  +--rw large-community* [large-community-number-set]
     +--rw large-community-number-set    -> ../config/large-community-number-set
     +--rw config
     | +--rw large-community-number-set?   cml-data-types:cml_line_t
     | +--rw additive-type                ipi-routemap-types:rmap_additive_type_t
     +--ro state
       +--ro large-community-number-set?   cml-data-types:cml_line_t
       +--ro additive-type                ipi-routemap-types:rmap_additive_type_t
```

ipi-rsvp

```
+--rw rsvp-te
   +--ro admin-group* [name]
   |  +--ro name     -> ../state/name
   |  +--ro state
   |     +--ro name?    string
   |     +--ro value?   uint32
   +--rw debug
   |  +--rw config
   |  |  +--rw options?   ipi-rsvp-types:rsvp_debug_t
   |  +--ro state
   |     +--ro options?                ipi-rsvp-types:rsvp_debug_t
   |     +--ro terminal-debug-status?   ipi-rsvp-types:rsvp_debug_t
   +--rw snmp-configuration
   |  +--rw config
   |  |  +--rw enable-rsvp-trap?   empty {feature-list:HAVE_SNMP}?
   |  +--ro state
   |     +--ro enable-rsvp-trap?   empty {feature-list:HAVE_SNMP}?
   +--ro dscp
   |  +--ro state
   |     +--ro class-exp-mapping*         uint32 {feature-list:NOT_HAVE_SWFWDR}?
   |     +--ro class-exp-mapping-value*   uint8 {feature-list:NOT_HAVE_SWFWDR}?
   +--rw rsvp-instance
   |  +--ro summary-refresh* [address epoch message-id]
   |  |  +--ro address       -> ../state/address
   |  |  +--ro epoch         -> ../state/epoch
   |  |  +--ro message-id    -> ../state/message-id
   |  |  +--ro state
   |  |     +--ro address?             inet:ip-address
   |  |     +--ro epoch?               uint32
   |  |     +--ro message-id?          uint32
```


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```
| |    +--ro trunk-id?             uint32
| |    +--ro direction?            string
| |    +--ro lsp-id?               uint16
| |    +--ro session-frr-type?     ipi-rsvp-types:rsvp_session_frr_type_t
| |    +--ro ingress?              inet:ip-address
| |    +--ro egress?               inet:ip-address
| |    +--ro trunk-session-type?   ipi-rsvp-types:rsvp_sess_type_t
| |    +--ro session-name?         string
| +--ro local-address-ipv4* [addr]
| | +--ro addr     -> ../state/addr
| | +--ro state
| |    +--ro if-name?   -> /ipi-interface:interfaces/interface/name
| |    +--ro family?    ipi-rsvp-types:rsvp_addr_family_t
| |    +--ro addr?      inet:ip-address
| +--ro local-address-ipv6* [addr]
| | +--ro addr     -> ../state/addr
| | +--ro state
| |    +--ro if-name?   -> /ipi-interface:interfaces/interface/name
| |    +--ro family?    ipi-rsvp-types:rsvp_addr_family_t
| |    +--ro addr?      inet:ip-address
| +--ro nexthop-cache* [prefix]
| | +--ro prefix    -> ../state/prefix
| | +--ro state
| |    +--ro prefix?              cml-data-types:cml_ip_prefix_addr_t
| |    +--ro number-of-sessions?   uint32
| |    +--ro ip-addr?             inet:ip-address
| |    +--ro if-name?              -> /ipi-interface:interfaces/interface/name
| +--rw config!
| | +--rw rsvp                          ipi-rsvp-types:rsvp_instance_t
| | +--rw enable-explicit-null?              empty
| | +--rw enable-php?                        empty
| | +--rw enable-entropy-label-capability?   empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--rw disable-refresh-resv-parsing?      empty
| | +--rw disable-refresh-path-parsing?      empty
| | +--rw disable-loop-detection?            empty
| | +--rw revert-timer?                      uint32
```

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```
  | | +--rw session-state-timeout?            uint32
  | | +--rw enable-bundle-send?               empty
  | | +--rw ingress?                          inet:ipv4-address
  | | +--rw on-boot-sample-interval?          uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
  | | +--rw on-boot-adjust-interval?          uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
  | | +--rw on-boot-adjust-multiplier?        uint8 {feature-list:HAVE_AUTO_BANDWIDTH}?
  | +--ro state
  | | +--ro counters
  | | | +--ro in-path-messages?                       uint32
  | | | +--ro in-path-error-messages?                 uint32
  | | | +--ro in-path-tear-messages?                  uint32
  | | | +--ro in-reservation-fixed-filter-messages?   uint32
  | | | +--ro in-reservation-wildcard-filter-messages? uint32
  | | | +--ro in-reservation-shared-explicit-messages? uint32
  | | | +--ro in-reservation-error-messages?          uint32
  | | | +--ro in-reservation-tear-messages?           uint32
  | | | +--ro in-reservation-conform-messages?        uint32
  | | | +--ro in-hello-messages?                      uint32
  | | | +--ro in-bundle-messages?                     uint32
  | | | +--ro in-acknowledge-messages?                uint32
  | | | +--ro in-srefresh-messages?                   uint32
  | | | +--ro in-notify-messages?                     uint32
  | | | +--ro out-path-messages?                      uint32
  | | | +--ro out-path-error-messages?                uint32
  | | | +--ro out-path-tear-messages?                 uint32
  | | | +--ro out-reservation-fixed-filter-messages?  uint32
  | | | +--ro out-reservation-wildcard-filter-messages? uint32
  | | | +--ro out-reservatoion-shared-explicit-messages? uint32
  | | | +--ro out-reservation-error-messages?         uint32
  | | | +--ro out-reservation-tear-messages?          uint32
  | | | +--ro out-reservation-conform-messages?       uint32
  | | | +--ro out-hello-messages?                     uint32
  | | | +--ro out-bundle-messages?                    uint32
  | | | +--ro out-acknowledge-messages?               uint32
  | | | +--ro out-srefresh-messages?                  uint32
  | | | +--ro out-notify-messages?                    uint32
```


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```
| | | +--ro total-number-of-sessions?                int32
| | | +--ro active-sessions?                         int32
| | | +--ro total-ingress-sessions?                  int32
| | | +--ro active-ingress-sessions?                 int32
| | | +--ro total-transit-sessions?                  int32
| | | +--ro active-transit-sessions?                 int32
| | | +--ro total-egress-sessions?                   int32
| | | +--ro active-egress-sessions?                  int32
| | +--ro rsvp                          ipi-rsvp-types:rsvp_instance_t
| | +--ro enable-explicit-null?           empty
| | +--ro enable-php?                     empty
| | +--ro enable-entropy-label-capability?   empty {feature-list:NOT_HAVE_CUSTOM1_MPLS}?
| | +--ro disable-refresh-resv-parsing?     empty
| | +--ro disable-refresh-path-parsing?     empty
| | +--ro disable-loop-detection?         empty
| | +--ro revert-timer?                   uint32
| | +--ro session-state-timeout?          uint32
| | +--ro enable-bundle-send?             empty
| | +--ro ingress?                        inet:ipv4-address
| | +--ro on-boot-sample-interval?        uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--ro on-boot-adjust-interval?        uint16 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--ro on-boot-adjust-multiplier?      uint8 {feature-list:HAVE_AUTO_BANDWIDTH}?
| | +--ro rsvp-version?                   uint16
| | +--ro rsvp-state?                     ipi-rsvp-types:rsvp_status_t
| | +--ro refresh-timer?                  uint32
| | +--ro keep-multiplier?                uint32
| | +--ro preemption-type?                ipi-rsvp-types:rsvp_preemption_type_t
| | +--ro selected-ingress-ipv4?          inet:ipv4-address
| | +--ro selected-ingress-ipv6?          inet:ipv6-address {feature-list:HAVE_IPV6}?
| +--rw route-refresh
| | +--rw config
| | | +--rw ack-send-timer?             uint16
| | | +--rw enable-message-ack?         empty
| | | +--rw disable-refresh-reduction?  empty
| | | +--rw ack-wait-timeout?           uint32
| | | +--rw refresh-time?               uint16
```

```
| | | +--rw keep-multiplier?            int32
| | +--ro state
| |    +--ro ack-send-timer?             uint16
| |    +--ro enable-message-ack?         empty
| |    +--ro disable-refresh-reduction?  empty
| |    +--ro ack-wait-timeout?           uint32
| |    +--ro refresh-time?               uint16
| |    +--ro keep-multiplier?            int32
| +--rw fast-reroute {feature-list:HAVE_MPLS_FRR}?
| | +--rw config
| | | +--rw default-frr-protection?             ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| | | +--rw preemption-type?                    ipi-rsvp-types:rsvp_preemp_t {feature-list:HAVE_MPLS_FRR}?
| | | +--rw bypass-lsp-addr-query-interval?     uint8 {feature-list:HAVE_MPLS_FRR}?
| | | +--rw detour-id?                          ipi-rsvp-types:rsvp_detour_iden_t {feature-list:HAVE_MPLS_FRR}?
| | | +--rw detour-allow-primary-upstream-path?  empty {feature-list:HAVE_MPLS_FRR}?
| | +--ro state
| | | +--ro default-frr-protection?             ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| | | +--ro preemption-type?                    ipi-rsvp-types:rsvp_preemp_t {feature-list:HAVE_MPLS_FRR}?
| | | +--ro bypass-lsp-addr-query-interval?     uint8 {feature-list:HAVE_MPLS_FRR}?
| | | +--ro detour-id?                          ipi-rsvp-types:rsvp_detour_iden_t {feature-list:HAVE_MPLS_FRR}?
| | | +--ro detour-allow-primary-upstream-path?  empty {feature-list:HAVE_MPLS_FRR}?
| | +--rw auto-bypass
| |    +--rw config!
| |    | +--rw auto-bypass        empty
| |    | +--rw enable?            empty
| |    | +--rw inactivity-timer?  uint32
| |    +--ro state
| |    | +--ro auto-bypass        empty
| |    | +--ro enable?            empty
| |    | +--ro inactivity-timer?  uint32
| |    +--rw attributes
| |       +--rw attribute* [type]
| |          +--rw type               -> ../config/type
| |          +--rw config
| |          | +--rw type?                  ipi-rsvp-types:rsvp_bypass_attr_type_t
| |          | +--rw protection-capability?  ipi-rsvp-types:rsvp_exclude_path_type_t
```


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```
| |       | +--rw bandwidth?              string
| |       | +--rw setup-priority?         uint8
| |       | +--rw hold-priority?          uint8
| |       | +--rw hop-limit?              uint16
| |       | +--rw reoptimize?             empty
| |       +--ro state
| |       | +--ro type?                   ipi-rsvp-types:rsvp_bypass_attr_type_t
| |       | +--ro protection-capability?  ipi-rsvp-types:rsvp_exclude_path_type_t
| |       | +--ro bandwidth?              string
| |       | +--ro setup-priority?         uint8
| |       | +--ro hold-priority?          uint8
| |       | +--ro hop-limit?              uint16
| |       | +--ro reoptimize?             empty
| |       +--rw exclude-addresses
| |         +--rw exclude-address* [address]
| |           +--rw address    -> ../config/address
| |           +--rw config
| |           | +--rw exclude-type    ipi-rsvp-types:rsvp_exclude_path_type_t
| |           | +--rw address?        inet:ipv4-address
| |           +--ro state
| |             +--ro exclude-type    ipi-rsvp-types:rsvp_exclude_path_type_t
| |             +--ro address?        inet:ipv4-address
| +--rw cspf {feature-list:HAVE_CSPF}?
| | +--rw config
| | | +--rw disable-cspf?                 empty
| | | +--rw cspf-lsp-reoptimization-time?  uint32
| | +--ro state
| |   +--ro disable-cspf?                 empty
| |   +--ro cspf-lsp-reoptimization-time?  uint32
| +--rw global
| | +--rw hellos
| | | +--rw config
| | | | +--rw enable-hello-receipt?  empty
| | | | +--rw hello-interval?        int32
| | | | +--rw hello-timeout?         int32
| | | +--ro state
```

```
| | |    +--ro enable-hello-receipt?   empty
| | |    +--ro hello-interval?         int32
| | |    +--ro hello-timeout?          int32
| | +--rw graceful-restart {feature-list:HAVE_RSVP_GRST}?
| |    +--rw config!
| |    | +--rw enable-graceful-restart    empty
| |    | +--rw restart-time?              uint32
| |    | +--rw recovery-time?             uint32
| |    +--ro state
| |       +--ro enable-graceful-restart    empty
| |       +--ro restart-time?              uint32
| |       +--ro recovery-time?             uint32
| +--rw srlg {feature-list:HAVE_SRLG}?
| | +--rw config
| | | +--rw srlg-disjoint?   ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| | +--ro state
| |    +--ro srlg-disjoint?   ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| +--rw diff-serv {feature-list:HAVE_DIFFSERV}?
| | +--rw config
| | +--ro state
| +--rw neighbors
|    +--rw neighbor* [address]
|    | +--rw address    -> ../config/address
|    | +--rw config
|    | | +--rw address?   inet:ip-address
|    | +--ro state
|    |    +--ro address?   inet:ip-address
|    +--ro protocol-neighbor* [neighbor-ip-address]
|       +--ro neighbor-ip-address    -> ../state/neighbor-ip-address
|       +--ro state
|          +--ro neighbor-ip-address?            inet:ip-address
|          +--ro session-count?                  uint32
|          +--ro refresh-reduction?              ipi-rsvp-types:rsvp_neighbor_refresh_reduction_status_t
|          +--ro upstream-lsp-count?             uint32
|          +--ro downstream-lsp-count?           uint32
|          +--ro neighbor-state?                 ipi-rsvp-types:rsvp_neighbor_hello_state_t
```


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```
|          +--ro srefresh-remaining-time?         uint32
|          +--ro neighbor-type?                   ipi-rsvp-types:rsvp_neighbor_type_t
|          +--ro max-acknowledge-packet?          uint16
|          +--ro used-acknowledge-packet?         uint16
|          +--ro max-bundle-packet?               uint16
|          +--ro used-bundle-packet?              uint16
|          +--ro lsp-id?                          uint16
|          +--ro session-frr-type?                ipi-rsvp-types:rsvp_session_frr_type_t
|          +--ro ingress?                         inet:ip-address
|          +--ro egress?                          inet:ip-address
|          +--ro trunk-session-type?              ipi-rsvp-types:rsvp_sess_type_t
|          +--ro session-name?                    string
|          +--ro trunk-id?                        uint32
|          +--ro direction?                       string
|          +--ro graceful-restart-state?          ipi-rsvp-types:rsvp_graceful_restart_status_t {feature-
list:HAVE_RSVP_GRST}?
|          +--ro graceful-restart-set-recovery?   ipi-rsvp-types:rsvp_graceful_restart_recovery_status_t {feature-
list:HAVE_RSVP_GRST}?
|          +--ro restart-time?                    uint32 {feature-list:HAVE_RSVP_GRST}?
|          +--ro recovery-time?                   uint32 {feature-list:HAVE_RSVP_GRST}?
|          +--ro remaining-restart-time?          uint32 {feature-list:HAVE_RSVP_GRST}?
|          +--ro remaining-recovery-time?         uint32 {feature-list:HAVE_RSVP_GRST}?
|       +--rw rsvp-paths {feature-list:NOT_HAVE_MPLS_TUNNEL}?
|       |  +--rw rsvp-path* [path-name]
|       |     +--rw path-name                -> ../config/path-name
|       |     +--rw config
|       |     |  +--rw path-name?     string
|       |     |  +--rw path-type      ipi-rsvp-types:rsvp_path_type_t
|       |     |  +--rw description?   cml-data-types:cml_line_t
|       |     +--ro state
|       |     |  +--ro path-name?         string
|       |     |  +--ro path-type          ipi-rsvp-types:rsvp_path_type_t
|       |     |  +--ro description?       cml-data-types:cml_line_t
|       |     |  +--ro path-identifier?   uint16
|       |     |  +--ro hop-count?         uint16
|       |     +--rw explicit-route-object
|       |        +--rw mpls-hops
```

```
|       | +--rw mpls-hop* [hop-address hop-type]
|       |    +--rw hop-address    -> ../config/hop-address
|       |    +--rw hop-type       -> ../config/hop-type
|       |    +--rw config
|       |    | +--rw hop-address?   inet:ipv4-address
|       |    | +--rw hop-type?      ipi-rsvp-types:rsvp_path_status_t
|       |    +--ro state
|       |       +--ro hop-address?   inet:ipv4-address
|       |       +--ro hop-type?      ipi-rsvp-types:rsvp_path_status_t
|       +--rw gmpls-strict-hops
+--rw multipaths {feature-list:HAVE_RSVP_MULTIPATH}?
| +--rw multipath* [multipath-name]
|    +--rw multipath-name    -> ../config/multipath-name
|    +--rw config
|    | +--rw description?      cml-data-types:cml_line_t
|    | +--rw destination?      inet:ipv4-address
|    | +--rw multipath-name?   string
|    +--ro state
|    | +--ro description?           cml-data-types:cml_line_t
|    | +--ro destination?           inet:ipv4-address
|    | +--ro multipath-name?        string
|    | +--ro multipath-identifier?   uint16
|    | +--ro member-trunk-count?     uint16
|    +--ro member-trunks
|       +--ro member-trunk* [trunk-name]
|          +--ro trunk-name    -> ../state/trunk-name
|          +--ro state
|             +--ro trunk-name?        string
|             +--ro trunk-identifier?   uint32
|             +--ro trunk-status?       ipi-rsvp-types:rsvp_trunk_status_t
+--rw trunks
| +--rw bypass-trunks
| | +--rw bypass-trunk* [bypass-name] {feature-list:HAVE_MPLS_FRR}?
| |    +--rw bypass-name    -> ../config/bypass-name
| |    +--rw config
| |    | +--rw ingress?               inet:ipv4-address
```


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```
| |    | +--rw egress?                inet:ipv4-address
| |    | +--rw ext-tunnel-id?         inet:ipv4-address
| |    | +--rw update-type?           ipi-rsvp-types:rsvp_update_type_t
| |    | +--rw description?           cml-data-types:cml_line_t
| |    | +--rw enable-reoptimize?     empty
| |    | +--rw shutdown?              empty
| |    | +--rw bypass-name?           string
| |    | +--rw backup-bandwidth-type? ipi-rsvp-types:rsvp_backup_bandwidth_type
| |    +--ro state
| |    | +--ro ingress?               inet:ipv4-address
| |    | +--ro egress?                inet:ipv4-address
| |    | +--ro ext-tunnel-id?         inet:ipv4-address
| |    | +--ro update-type?           ipi-rsvp-types:rsvp_update_type_t
| |    | +--ro description?           cml-data-types:cml_line_t
| |    | +--ro enable-reoptimize?     empty
| |    | +--ro shutdown?              empty
| |    | +--ro bypass-name?           string
| |    | +--ro backup-bandwidth-type? ipi-rsvp-types:rsvp_backup_bandwidth_type
| |    +--rw session
| |      +--rw config
| |      | +--rw traffic-type?              ipi-rsvp-types:rsvp_traffic_type_t
| |      | +--rw retry-count?               uint16
| |      | +--rw retry-interval?            uint16
| |      | +--rw disable-route-record?      empty
| |      | +--rw enable-reuse-route-record? empty
| |      | +--rw cspf-retry-count?          uint16 {feature-list:HAVE_CSPF}?
| |      | +--rw cspf-retry-interval?       uint16 {feature-list:HAVE_CSPF}?
| |      +--ro state
| |      | +--ro traffic-type?              ipi-rsvp-types:rsvp_traffic_type_t
| |      | +--ro retry-count?               uint16
| |      | +--ro retry-interval?            uint16
| |      | +--ro disable-route-record?      empty
| |      | +--ro enable-reuse-route-record? empty
| |      | +--ro cspf-retry-count?          uint16 {feature-list:HAVE_CSPF}?
| |      | +--ro cspf-retry-interval?       uint16 {feature-list:HAVE_CSPF}?
| |      +--rw exclude-path {feature-list:HAVE_MPLS_FRR}?
```

```
| |       | +--rw config!
| |       | | +--rw exclude-type    ipi-rsvp-types:rsvp_exclude_path_type_t
| |       | | +--rw exclude-addr    inet:ipv4-address
| |       | +--ro state
| |       |    +--ro exclude-type    ipi-rsvp-types:rsvp_exclude_path_type_t
| |       |    +--ro exclude-addr    inet:ipv4-address
| |       +--rw path-state-block
| |       | +--rw config
| |       | | +--rw path-name?   string
| |       | +--ro state
| |       | | +--ro path-name?   string
| |       | +--rw session-attributes
| |       |    +--rw config
| |       |    | +--rw hold-priority?         uint8
| |       |    | +--rw setup-priority?        uint8
| |       |    | +--rw enable-label-record?   empty
| |       |    | +--rw hop-limit?             uint16
| |       |    | +--rw filter-type?           ipi-rsvp-types:rsvp_filter_type_t
| |       |    | +--rw bandwidth?             string
| |       |    +--ro state
| |       |       +--ro hold-priority?         uint8
| |       |       +--ro setup-priority?        uint8
| |       |       +--ro enable-label-record?   empty
| |       |       +--ro hop-limit?             uint16
| |       |       +--ro filter-type?           ipi-rsvp-types:rsvp_filter_type_t
| |       |       +--ro bandwidth?             string
| |       +--rw diff-serv-info {feature-list:HAVE_MPLS_FRR,feature-list:HAVE_DIFFSERV}?
| |          +--rw config
| |          +--ro state
| |          +--rw dscp-exp-maps
| |             +--rw dscp-exp-map* [dscp-exp-map-exp-val]
| |                +--rw dscp-exp-map-exp-val    -> ../config/dscp-exp-map-exp-val
| |                +--rw config
| |                | +--rw dscp-exp-map-exp-val?      int32
| |                | +--rw dscp-exp-map-class-name    string
| |                +--ro state
```


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```
    | |                +--ro dscp-exp-map-exp-val?      int32
    | |                +--ro dscp-exp-map-class-name    string
    | +--rw ingress-trunks
    | | +--rw ingress-trunk* [trunk-name]
    | |    +--rw trunk-name                -> ../config/trunk-name
    | |    +--rw config
    | |    | +--rw ingress?            inet:ipv4-address
    | |    | +--rw egress?             inet:ipv4-address
    | |    | +--rw ext-tunnel-id?      inet:ipv4-address
    | |    | +--rw update-type?        ipi-rsvp-types:rsvp_update_type_t
    | |    | +--rw description?        cml-data-types:cml_line_t
    | |    | +--rw enable-reoptimize?  empty
    | |    | +--rw shutdown?           empty
    | |    | +--rw multipath-group?    -> /rsvp-te/multipaths/multipath/config/multipath-name {feature-
list:HAVE_RSVP_MULTIPATH}?
    | |    | +--rw trunk-name?         string
    | |    | +--rw trunk-family        ipi-rsvp-types:rsvp_trunk_family_t
    | |    | +--rw absolute-metric?    uint32
    | |    | +--rw relative-metric?    int32
    | |    | +--rw revert-timer?       uint32
    | |    | +--rw auto-bandwidth?     -> /rsvp-te/rsvp-auto-bandwidths/rsvp-auto-bandwidth/config/profile-name {feature-
list:HAVE_AUTO_BANDWIDTH}?
    | |    | +--rw ldp-tunneling?      empty {feature-list:HAVE_LDP_TUNNELING}?
    | |    | +--rw trunk-color?        uint32 {feature-list:HAVE_SERVICE_MAPPING}?
    | |    | +--rw bsid-value?         uint32
    | |    +--ro state
    | |    | +--ro ingress?            inet:ipv4-address
    | |    | +--ro egress?             inet:ipv4-address
    | |    | +--ro ext-tunnel-id?      inet:ipv4-address
    | |    | +--ro update-type?        ipi-rsvp-types:rsvp_update_type_t
    | |    | +--ro description?        cml-data-types:cml_line_t
    | |    | +--ro enable-reoptimize?  empty
    | |    | +--ro shutdown?           empty
    | |    | +--ro multipath-group?    -> /rsvp-te/multipaths/multipath/config/multipath-name {feature-
list:HAVE_RSVP_MULTIPATH}?
    | |    | +--ro trunk-name?         string
    | |    | +--ro trunk-family        ipi-rsvp-types:rsvp_trunk_family_t
```

```
    | |    | +--ro absolute-metric?     uint32
    | |    | +--ro relative-metric?     int32
    | |    | +--ro revert-timer?        uint32
    | |    | +--ro auto-bandwidth?      -> /rsvp-te/rsvp-auto-bandwidths/rsvp-auto-bandwidth/config/profile-name {feature-list:HAVE_AUTO_BANDWIDTH}?
    | |    | +--ro ldp-tunneling?       empty {feature-list:HAVE_LDP_TUNNELING}?
    | |    | +--ro trunk-color?         uint32 {feature-list:HAVE_SERVICE_MAPPING}?
    | |    | +--ro bsid-value?          uint32
    | |    +--rw path-computation-element {feature-list:HAVE_PCEP_RSVP}?
    | |    | +--rw config
    | |    | | +--rw path-option-dynamic?     cml-data-types:cml_pcep_path_dyn_t {feature-list:HAVE_PCEP_RSVP}?
    | |    | | +--rw pce-entity-identifier?   uint8 {feature-list:HAVE_PCEP_RSVP}?
    | |    | | +--rw pce-state-report?        empty {feature-list:HAVE_PCEP_RSVP}?
    | |    | | +--rw pce-lsp-delegate?        empty {feature-list:HAVE_PCEP_RSVP}?
    | |    | +--ro state
    | |    |    +--ro path-option-dynamic?     cml-data-types:cml_pcep_path_dyn_t {feature-list:HAVE_PCEP_RSVP}?
    | |    |    +--ro pce-entity-identifier?   uint8 {feature-list:HAVE_PCEP_RSVP}?
    | |    |    +--ro pce-state-report?        empty {feature-list:HAVE_PCEP_RSVP}?
    | |    |    +--ro pce-lsp-delegate?        empty {feature-list:HAVE_PCEP_RSVP}?
    | |    +--rw mapped-ip-routes
    | |    | +--rw mapped-ip-route* [address]
    | |    |    +--rw address    -> ../config/address
    | |    |    +--rw config
    | |    |    | +--rw address?   cml-data-types:cml_ipv4_prefix_t
    | |    |    +--ro state
    | |    |      +--ro address?   cml-data-types:cml_ipv4_prefix_t
    | |    +--rw secondary-priorities
    | |    | +--rw secondary-priority* [priority-value]
    | |    |    +--rw priority-value    -> ../config/priority-value
    | |    |    +--rw config
    | |    |    | +--rw priority-value?                   int32
    | |    |    | +--rw priority-path?                    string
    | |    |    | +--rw secondary-priority-srlg-disjoint?   ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
    | |    |    | +--rw hold-priority?                    uint8
    | |    |    | +--rw setup-priority?                   uint8
    | |    |    | +--rw enable-label-record?              empty
```


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```
    | |    |    | +--rw hop-limit?                      uint16
    | |    |    | +--rw bandwidth?                      string
    | |    |    +--ro state
    | |    |       +--ro priority-value?                int32
    | |    |       +--ro priority-path?                 string
    | |    |       +--ro secondary-priority-srlg-disjoint?   ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-
list:HAVE_SRLG}?
    | |    |       +--ro hold-priority?                 uint8
    | |    |       +--ro setup-priority?                uint8
    | |    |       +--ro enable-label-record?           empty
    | |    |       +--ro hop-limit?                     uint16
    | |    |       +--ro bandwidth?                     string
    | |    +--rw sessions
    | |       +--rw session* [trunk-session-type]
    | |          +--rw trunk-session-type    -> ../config/trunk-session-type
    | |          +--rw config
    | |          | +--rw trunk-session-type?         ipi-rsvp-types:rsvp_sess_type_t
    | |          | +--rw disable-cspf?               empty {feature-list:HAVE_CSPF}?
    | |          | +--rw disable-affinity?           empty {feature-list:HAVE_TE}?
    | |          | +--rw traffic-type?               ipi-rsvp-types:rsvp_traffic_type_t
    | |          | +--rw retry-count?                uint16
    | |          | +--rw retry-interval?             uint16
    | |          | +--rw disable-route-record?       empty
    | |          | +--rw enable-reuse-route-record?  empty
    | |          | +--rw cspf-retry-count?           uint16 {feature-list:HAVE_CSPF}?
    | |          | +--rw cspf-retry-interval?        uint16 {feature-list:HAVE_CSPF}?
    | |          | +--rw srlg-disjoint-secondary?    ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
    | |          +--ro state
    | |          | +--ro trunk-session-type?         ipi-rsvp-types:rsvp_sess_type_t
    | |          | +--ro disable-cspf?               empty {feature-list:HAVE_CSPF}?
    | |          | +--ro disable-affinity?           empty {feature-list:HAVE_TE}?
    | |          | +--ro traffic-type?               ipi-rsvp-types:rsvp_traffic_type_t
    | |          | +--ro retry-count?                uint16
    | |          | +--ro retry-interval?             uint16
    | |          | +--ro disable-route-record?       empty
    | |          | +--ro enable-reuse-route-record?  empty
    | |          | +--ro cspf-retry-count?           uint16 {feature-list:HAVE_CSPF}?
```

```
| |       | +--ro cspf-retry-interval?        uint16 {feature-list:HAVE_CSPF}?
| |       | +--ro srlg-disjoint-secondary?    ipi-rsvp-types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| |       +--rw fast-reroute {feature-list:HAVE_MPLS_FRR}?
| |       | +--rw config
| |       | | +--rw protection?              ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| |       | | +--rw enable-node-protection?  empty {feature-list:HAVE_MPLS_FRR}?
| |       | | +--rw frr-hold-priority?       uint32
| |       | | +--rw frr-setup-priority?      uint32
| |       | | +--rw frr-hop-limit?           uint32
| |       | | +--rw fast-reroute-bandwidth?  string
| |       | +--ro state
| |       | | +--ro protection?              ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
| |       | | +--ro enable-node-protection?  empty {feature-list:HAVE_MPLS_FRR}?
| |       | | +--ro frr-hold-priority?       uint32
| |       | | +--ro frr-setup-priority?      uint32
| |       | | +--ro frr-hop-limit?           uint32
| |       | | +--ro fast-reroute-bandwidth?  string
| |       | +--rw frr-admin-groups
| |       |   +--rw frr-admin-group* [admin-group-name] {feature-list:HAVE_MPLS_FRR}?
| |       |     +--rw admin-group-name    -> ../config/admin-group-name
| |       |     +--rw config
| |       |     | +--rw admin-group-name?   string
| |       |     | +--rw admin-group-type?   ipi-rsvp-types:rsvp_frr_admin_type_t
| |       |     +--ro state
| |       |       +--ro admin-group-name?   string
| |       |       +--ro admin-group-type?   ipi-rsvp-types:rsvp_frr_admin_type_t
| |       +--rw admin-groups
| |       | +--rw admin-group* [name] {feature-list:HAVE_TE}?
| |       |   +--rw name      -> ../config/name
| |       |   +--rw config
| |       |   | +--rw name?   string
| |       |   | +--rw type?   ipi-rsvp-types:rsvp_admin_type_t
| |       |   +--ro state
| |       |     +--ro name?   string
| |       |     +--ro type?   ipi-rsvp-types:rsvp_admin_type_t
| |       +--rw path-state-block
```


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```
| |       | +--rw config
| |       | | +--rw path-name?   -> /rsvp-te/rsvp-paths/rsvp-path/config/path-name
| |       | +--ro state
| |       | | +--ro path-name?   -> /rsvp-te/rsvp-paths/rsvp-path/config/path-name
| |       | +--rw session-attributes
| |       |    +--rw config
| |       |    | +--rw hold-priority?         uint8
| |       |    | +--rw setup-priority?        uint8
| |       |    | +--rw enable-label-record?   empty
| |       |    | +--rw hop-limit?             uint16
| |       |    | +--rw filter-type?           ipi-rsvp-types:rsvp_filter_type_t
| |       |    | +--rw bandwidth?             string
| |       |    +--ro state
| |       |       +--ro hold-priority?        uint8
| |       |       +--ro setup-priority?       uint8
| |       |       +--ro enable-label-record?   empty
| |       |       +--ro hop-limit?            uint16
| |       |       +--ro filter-type?          ipi-rsvp-types:rsvp_filter_type_t
| |       |       +--ro bandwidth?            string
| |       +--rw diff-serv-info {feature-list:HAVE_DIFFSERV}?
| |          +--rw config
| |          +--ro state
| |          +--rw dscp-exp-maps
| |          | +--rw dscp-exp-map* [dscp-exp-map-exp-val]
| |          |    +--rw dscp-exp-map-exp-val    -> ../config/dscp-exp-map-exp-val
| |          |    +--rw config
| |          |    | +--rw dscp-exp-map-exp-val?      int32
| |          |    | +--rw dscp-exp-map-class-name    string
| |          |    +--ro state
| |          |       +--ro dscp-exp-map-exp-val?      int32
| |          |       +--ro dscp-exp-map-class-name    string
| |          +--rw elsp-class
| |             +--rw config
| |             | +--rw elsp-signal?         empty
| |             | +--rw elsp-signal-class1?   string
| |             | +--rw elsp-signal-class2?   string
```

```
| |              | +--rw elsp-signal-class3?   string
| |              | +--rw elsp-signal-class4?   string
| |              | +--rw elsp-signal-class5?   string
| |              | +--rw elsp-signal-class6?   string
| |              | +--rw elsp-signal-class7?   string
| |              +--ro state
| |                +--ro elsp-signal?          empty
| |                +--ro elsp-signal-class1?   string
| |                +--ro elsp-signal-class2?   string
| |                +--ro elsp-signal-class3?   string
| |                +--ro elsp-signal-class4?   string
| |                +--ro elsp-signal-class5?   string
| |                +--ro elsp-signal-class6?   string
| |                +--ro elsp-signal-class7?   string
| +--ro trunk* [trunk-id extended-tunnel-id egress]
|    +--ro trunk-id             -> ../state/trunk-id
|    +--ro extended-tunnel-id   -> ../state/extended-tunnel-id
|    +--ro egress               -> ../state/egress
|    +--ro sessions
|    | +--ro session* [session-name]
|    |    +--ro session-name    -> ../state/session-name
|    |    +--ro state
|    |       +--ro received-explicit-route-object* [link-address]
|    |       | +--ro link-address    -> ../state/link-address
|    |       | +--ro state
|    |       |    +--ro link-address?   inet:ip-address
|    |       |    +--ro link-type?      ipi-rsvp-types:rsvp_path_status_t
|    |       +--ro explicit-route-object* [link-address]
|    |       | +--ro link-address    -> ../state/link-address
|    |       | +--ro state
|    |       |    +--ro link-address?   inet:ip-address
|    |       |    +--ro link-type?      ipi-rsvp-types:rsvp_path_status_t
|    |       +--ro constrained-shortest-path
|    |       | +--ro state
|    |       |    +--ro cspf-state?                ipi-rsvp-types:rsvp_status_t
|    |       |    +--ro lsp-reoptimization-state?   ipi-rsvp-types:rsvp_status_t
```


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```
|   |       |   +--ro lsp-reoptimization-timer?   uint32
|   |       |   +--ro cspf-client?                ipi-rsvp-types:rsvp_cspf_client_t
|   |       +--ro fast-reroute {feature-list:HAVE_MPLS_FRR}?
|   |       | +--ro state
|   |       |   +--ro lsp-protection?       ipi-rsvp-types:rsvp_frr_protection_t {feature-list:HAVE_MPLS_FRR}?
|   |       |   +--ro bypass-trunk-name?    string {feature-list:HAVE_MPLS_FRR}?
|   |       |   +--ro merge-point-address?  inet:ipv4-address {feature-list:HAVE_MPLS_FRR}?
|   |       |   +--ro merge-point-label?    uint32 {feature-list:HAVE_MPLS_FRR}?
|   |       +--ro upstream-downstream-state
|   |       | +--ro state
|   |       |   +--ro upstream-ip-address?        inet:ip-address
|   |       |   +--ro upstream-interface-name?    string
|   |       |   +--ro downstream-ip-address?      inet:ip-address
|   |       |   +--ro downstream-interface-name?  string
|   |       +--ro traffic-flow-specification
|   |       | +--ro state
|   |       |   +--ro traffic-specification-rate?  uint32
|   |       |   +--ro filter-specification-rate?   uint32
|   |       +--ro session-priority
|   |       | +--ro state
|   |       |   +--ro setup-priority?  uint8
|   |       |   +--ro hold-priority?   uint8
|   |       |   +--ro hop-limit?       uint8
|   |       |   +--ro bandwidth?       string
|   |       +--ro path-refresh-timers
|   |       | +--ro state
|   |       |   +--ro path-refresh-time?            uint32
|   |       |   +--ro remaining-path-refresh-time?  uint32
|   |       |   +--ro path-lifetime?                uint32
|   |       |   +--ro remaining-path-lifetime?      uint32
|   |       +--ro reserve-refresh-timers
|   |       | +--ro state
|   |       |   +--ro reserve-refresh-time?            uint32
|   |       |   +--ro remaining-reserve-refresh-time?  uint32
|   |       |   +--ro reserve-lifetime?                uint32
|   |       |   +--ro remaining-reserve-lifetime?      uint32
```

```
|    |       +--ro retry-timers
|    |       | +--ro state
|    |       |    +--ro remaining-retry-time?   uint32
|    |       |    +--ro next-retry-time?        uint32
|    |       +--ro upstream-route-record-object
|    |       | +--ro state
|    |       |    +--ro address*   inet:ip-address
|    |       +--ro downstream-route-record-object
|    |       | +--ro state
|    |       |    +--ro address*   inet:ip-address
|    |       +--ro session-name?                  string
|    |       +--ro lsp-id?                       uint16
|    |       +--ro session-frr-type?              ipi-rsvp-types:rsvp_session_frr_type_t
|    |       +--ro ingress?                       inet:ip-address
|    |       +--ro trunk-session-type?            ipi-rsvp-types:rsvp_sess_type_t
|    |       +--ro session-role?                  ipi-rsvp-types:rsvp_session_role_t
|    |       +--ro is-pseudo-primary?             ipi-rsvp-types:rsvp_yes_no_t
|    |       +--ro lsp-state?                     string
|    |       +--ro fsm-state?                     string
|    |       +--ro transit-downstream-fsm-state?  string
|    |       +--ro establishment-time?            cml-data-types:cml_line_t
|    |       +--ro revert-hold-timer?             ipi-rsvp-types:rsvp_yes_no_t
|    |       +--ro remaining-revert-time?         uint32
|    |       +--ro session-filter-style?          ipi-rsvp-types:rsvp_filter_state_type_t
|    |       +--ro in-label?                      uint32
|    |       +--ro out-label?                     uint32
|    |       +--ro bypass-out-label?              uint32
|    |       +--ro bypass-out-interface?          string
|    |       +--ro gmpls-label-type?              ipi-rsvp-types:rsvp_gmpls_label_type_t
|    |       +--ro qos-traffic-type?              ipi-rsvp-types:rsvp_traffic_type_state_t
|    |       +--ro minimum-path-mtu?              uint32
|    +--ro state
|    | +--ro trunk-id?                 uint32
|    | +--ro extended-tunnel-id?       inet:ip-address
|    | +--ro egress?                   inet:ip-address
|    | +--ro trunk-name?               string
```


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```
|    | +--ro multipath-group-name?         string {feature-list:HAVE_RSVP_MULTIPATH}?
|    | +--ro multipath-group-identifier?   uint16 {feature-list:HAVE_RSVP_MULTIPATH}?
|    +--ro auto-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
|      +--ro state
|        +--ro last-bandwidth?                string
|        +--ro requested-bandwidth?           string
|        +--ro signaled-bandwidth?            string
|        +--ro current-bandwidth?             string
|        +--ro highest-watermark-bandwidth?   string
|        +--ro last-adjusted-bandwidth?       string
|        +--ro total-bandwidth-adjustments?   uint32
|        +--ro successful-adjustments?        uint32
|        +--ro failed-adjustments?            uint32
|        +--ro minimum-average-bandwidth?     string
|        +--ro maximum-average-bandwidth?     string
|        +--ro overflow-sample-count?         uint16
|        +--ro underflow-sample-count?        uint16
|        +--ro maxbw-exceed-sample-count?     uint16
|        +--ro teardown-count?                uint32
|        +--ro sample-request-due-time?       uint32
|        +--ro next-adjustment-due-time?      uint32
|        +--ro last-bandwidth-request-time?   cml-data-types:cml_line_t
|        +--ro last-bandwidth-signal-time?    cml-data-types:cml_line_t
|        +--ro last-adjustment-time?          cml-data-types:cml_line_t
|        +--ro highest-watermark-time?        cml-data-types:cml_line_t
|        +--ro total-force-adjustments?       uint32
|        +--ro successful-force-adjustments?  uint32
|        +--ro failed-force-adjustments?      uint32
+--rw rsvp-auto-bandwidths {feature-list:HAVE_AUTO_BANDWIDTH}?
|  +--rw rsvp-auto-bandwidth* [profile-name]
|    +--rw profile-name    -> ../config/profile-name
|    +--rw config
|    | +--rw profile-name?                    string
|    | +--rw sample-interval?                 uint16
|    | +--rw adjust-interval?                 uint16
|    | +--rw minimum-bandwidth?               string
```

```
|   | +--rw maximum-bandwidth?                    string
|   | +--rw overflow-threshold-percent?           uint8
|   | +--rw underflow-threshold-percent?          uint8
|   | +--rw overflow-threshold-bandwidth?         string
|   | +--rw underflow-threshold-bandwidth?        string
|   | +--rw underflow-threshold-activate-bandwidth?   string
|   | +--rw overflow-threshold-activate-bandwidth?    string
|   | +--rw overflow-limit?                       uint16
|   | +--rw underflow-limit?                      uint16
|   | +--rw initial-bandwidth?                    string
|   | +--rw maximum-bandwidth-exceed-limit?       uint16
|   | +--rw maximum-bandwidth-exceed-action?      ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
|   | +--rw resignal-failure-action?              ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
|   | +--rw sync-bandwidth?                       empty
|   | +--rw monitor-bandwidth?                    empty
|   | +--rw minimum-samples-percent?              uint8
|   | +--rw minimum-samples-absolute?             uint16
|   +--ro state
|     +--ro profile-name?                         string
|     +--ro sample-interval?                      uint16
|     +--ro adjust-interval?                      uint16
|     +--ro minimum-bandwidth?                    string
|     +--ro maximum-bandwidth?                    string
|     +--ro overflow-threshold-percent?           uint8
|     +--ro underflow-threshold-percent?          uint8
|     +--ro overflow-threshold-bandwidth?         string
|     +--ro underflow-threshold-bandwidth?        string
|     +--ro underflow-threshold-activate-bandwidth?   string
|     +--ro overflow-threshold-activate-bandwidth?    string
|     +--ro overflow-limit?                       uint16
|     +--ro underflow-limit?                      uint16
|     +--ro initial-bandwidth?                    string
|     +--ro maximum-bandwidth-exceed-limit?       uint16
|     +--ro maximum-bandwidth-exceed-action?      ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
|     +--ro resignal-failure-action?              ipi-rsvp-types:rsvp_auto_bandwidth_action_type_t
|     +--ro sync-bandwidth?                       empty
```


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```
|       +--ro monitor-bandwidth?                    empty
|       +--ro minimum-samples-percent?              uint8
|       +--ro minimum-samples-absolute?             uint16
+--rw interfaces
  +--rw interface* [name]
    +--rw name               -> ../config/name
    +--rw config
    | +--rw name?                   -> /ipi-interface:interfaces/interface/name
    | +--rw enable-rsvp?              empty
    | +--rw enable-iana-hello-config?   empty
    +--ro state
    | +--ro name?                   -> /ipi-interface:interfaces/interface/name
    | +--ro enable-rsvp?              empty
    | +--ro enable-iana-hello-config?    empty
    | +--ro selected-ipv4-address?       inet:ipv4-address
    | +--ro selected-ipv6-address?       inet:ipv6-address
    | +--ro interface-type?              ipi-rsvp-types:rsvp_interface_type_t
    | +--ro interface-index?             uint32
    | +--ro rsvp-status?                 ipi-rsvp-types:rsvp_status_t
    | +--ro administrative-group-name*   string
    | +--ro bundle-buffer-size?          uint16
    | +--ro epoch?                       uint32
    +--rw refresh-reduction
    | +--rw config
    | | +--rw enable-message-ack?          empty
    | | +--rw disable-refresh-reduction?   empty
    | | +--rw ack-wait-timeout?            uint32
    | | +--rw refresh-time?                uint16
    | | +--rw keep-multiplier?             int32
    | +--ro state
    |    +--ro enable-message-ack?          empty
    |    +--ro disable-refresh-reduction?   empty
    |    +--ro ack-wait-timeout?            uint32
    |    +--ro refresh-time?                uint16
    |    +--ro keep-multiplier?             int32
    +--rw hellos
```

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```
        +--rw config
        |  +--rw enable-hello-receipt?   empty
        |  +--rw hello-interval?         int32
        |  +--rw hello-timeout?          int32
        +--ro state
           +--ro enable-hello-receipt?   empty
           +--ro hello-interval?         int32
           +--ro hello-timeout?          int32

rpcs:
  +---x clear-rsvp-session {feature-list:HAVE_RSVPD}?
  +---x clear-rsvp-trunk {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w trunk-name    string
  +---x clear-rsvp-primary-trunk {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w trunk-name    string
  +---x clear-rsvp-secondary-trunk {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w trunk-name    string
  +---x clear-rsvp-ingress-trunk {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w trunk-name    string
  +---x clear-rsvp-non-ingress-trunk {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w trunk-name    string
  +---x rsvp-trunk-force-reoptimize-on {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w session-name    string
  +---x rsvp-trunk-force-switchover-secondary {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w trunk-name    string
  |     +---w action        ipi-rsvp-types:rsvp_force_secondary_t
  +---x rsvp-trunk-restart {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w trunk-name    string
```


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```
  +---x rsvp-session-reset {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w tunnel-id    uint32
  |     +---w lsp-id       uint32
  |     +---w ingress      inet:ipv4-address
  |     +---w egress       inet:ipv4-address
  +---x rsvp-trunk-force-auto-bandwidth-adjustment {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +---w input
  |     +---w trunk-name                      string
  |     +---w force-auto-bandwidth-adjustment    boolean
  |     +---w bandwidth                       string
  +---x rsvp-clear-auto-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +---w input
  |     +---w autobw-profile    string
  +---x clear-rsvp-trunk-auto-bandwidth-statistics {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +---w input
  |     +---w trunk-name    string
  +---x clear-rsvp-neighbor {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w address    inet:ip-address
  +---x clear-rsvp-statistics {feature-list:HAVE_RSVPD}?
  +---x rsvp-snmp-restart {feature-list:HAVE_SNMP}?
  +---x rsvp-terminal-debug-on {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-rsvp-types:rsvp_debug_t
  +---x rsvp-terminal-debug-off {feature-list:HAVE_RSVPD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-rsvp-types:rsvp_debug_t
  +---x restart-rsvp-graceful {feature-list:HAVE_RSVP_GRST}?

notifications:
  +---n rsvp-session-up
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro session-name?         string
  |  +--ro trunk-id?             uint32
```

```
  |  +--ro extended-tunnel-id?   inet:ip-address
  |  +--ro egress?               inet:ip-address
  |  +--ro lsp-id?               uint16
  |  +--ro ingress?              inet:ip-address
  |  +--ro trunk-session-type?   ipi-rsvp-types:rsvp_sess_type_t
  +---n rsvp-session-down
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro session-name?         string
  |  +--ro trunk-id?             uint32
  |  +--ro extended-tunnel-id?   inet:ip-address
  |  +--ro egress?               inet:ip-address
  |  +--ro lsp-id?               uint16
  |  +--ro ingress?              inet:ip-address
  |  +--ro trunk-session-type?   ipi-rsvp-types:rsvp_sess_type_t
  +---n rsvp-session-force-switchover
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro session-name?         string
  |  +--ro trunk-id?             uint32
  |  +--ro extended-tunnel-id?   inet:ip-address
  |  +--ro egress?               inet:ip-address
  |  +--ro lsp-id?               uint16
  |  +--ro ingress?              inet:ip-address
  |  +--ro trunk-session-type?   ipi-rsvp-types:rsvp_sess_type_t
  +---n rsvp-tunnel-reoptimized
  |  +--ro severity?             cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?           cml-data-types:cml_notif_class_t
  |  +--ro session-name?         string
  |  +--ro trunk-id?             uint32
  |  +--ro extended-tunnel-id?   inet:ip-address
  |  +--ro egress?               inet:ip-address
  |  +--ro lsp-id?               uint16
  |  +--ro ingress?              inet:ip-address
  |  +--ro trunk-session-type?   ipi-rsvp-types:rsvp_sess_type_t
  +---n rsvp-auto-bw-subceed-minimum-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
```


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```
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n rsvp-auto-bw-exceed-maximum-bandwidth {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n rsvp-auto-bw-adjust-time-expiry {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n rsvp-auto-bw-overflow {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n rsvp-auto-bw-underflow {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n rsvp-auto-bw-exceed-limit {feature-list:HAVE_AUTO_BANDWIDTH}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n rsvp-auto-bw-teardown {feature-list:HAVE_AUTO_BANDWIDTH}?
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro message?      string
```

ipi-sat

```
  +--rw sat
     +--rw rate-profiles
     |  +--rw rate-profile* [rate-pname]
     |     +--rw rate-pname                -> ../config/rate-pname
     |     +--rw config
```

```
|    | +--rw rate-pname?    string
|    | +--rw two-way?       empty
|    | +--rw color-aware?   empty
|    | +--rw load-step?     uint8
|    | +--rw mode?          ipi-sat-types:sat_mode_t
|    +--ro state
|    | +--ro rate-pname?    string
|    | +--ro two-way?       empty
|    | +--ro color-aware?   empty
|    | +--ro load-step?     uint8
|    | +--ro mode?          ipi-sat-types:sat_mode_t
|    +--rw commited-information-rate
|    | +--rw config!
|    | | +--rw cir          uint64
|    | | +--rw cir-unit     ipi-sat-types:sat_rate_unit_t
|    | | +--rw cir-cos      uint8
|    | | +--rw cir-dei      uint8
|    | +--ro state
|    |    +--ro cir         uint64
|    |    +--ro cir-unit    ipi-sat-types:sat_rate_unit_t
|    |    +--ro cir-cos     uint8
|    |    +--ro cir-dei     uint8
|    +--rw excess-information-rate
|    | +--rw config!
|    | | +--rw eir          uint64
|    | | +--rw eir-unit     ipi-sat-types:sat_rate_unit_t
|    | | +--rw eir-cos      uint8
|    | | +--rw eir-dei      uint8
|    | +--ro state
|    |    +--ro eir         uint64
|    |    +--ro eir-unit    ipi-sat-types:sat_rate_unit_t
|    |    +--ro eir-cos     uint8
|    |    +--ro eir-dei     uint8
|    +--rw delay-bins
|       +--rw config!
|       | +--rw min-rate     ipi-sat-types:sat_delay_rate_t
```


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```
|       | +--rw min-range    uint16
|       | +--rw max-rate     ipi-sat-types:sat_delay_rate_t
|       | +--rw max-range    uint16
|       +--ro state
|         +--ro min-rate     ipi-sat-types:sat_delay_rate_t
|         +--ro min-range    uint16
|         +--ro max-rate     ipi-sat-types:sat_delay_rate_t
|         +--ro max-range    uint16
+--rw acceptance-profiles
| +--rw acceptance-profile* [acceptance-pname]
|    +--rw acceptance-pname    -> ../config/acceptance-pname
|    +--rw config
|    | +--rw acceptance-pname?                string
|    | +--rw cir-frame-loss-ratio?            string
|    | +--rw cir-frame-loss-ratio-policing?   string
|    | +--rw cir-frame-delay-variation?       ipi-sat-types:sat_delay_rate_t
|    | +--rw cir-frame-delay-variation-range? uint16
|    | +--rw cir-frame-delay?                 ipi-sat-types:sat_delay_rate_t
|    | +--rw cir-frame-delay-range?           uint16
|    +--ro state
|      +--ro acceptance-pname?                string
|      +--ro cir-frame-loss-ratio?            string
|      +--ro cir-frame-loss-ratio-policing?   string
|      +--ro cir-frame-delay-variation?       ipi-sat-types:sat_delay_rate_t
|      +--ro cir-frame-delay-variation-range? uint16
|      +--ro cir-frame-delay?                 ipi-sat-types:sat_delay_rate_t
|      +--ro cir-frame-delay-range?           uint16
+--rw frame-size-profiles
| +--rw frame-size-profile* [size-pname]
|    +--rw size-pname    -> ../config/size-pname
|    +--rw config
|    | +--rw size-pname?   string
|    | +--rw size-a?       empty
|    | +--rw size-b?       empty
|    | +--rw size-c?       empty
|    | +--rw size-d?       empty
```

```
|    | +--rw size-e?       empty
|    | +--rw size-f?       empty
|    | +--rw size-g?       empty
|    | +--rw size-h?       uint16
|    | +--rw size-u?       uint16
|    +--ro state
|      +--ro size-pname?   string
|      +--ro size-a?       empty
|      +--ro size-b?       empty
|      +--ro size-c?       empty
|      +--ro size-d?       empty
|      +--ro size-e?       empty
|      +--ro size-f?       empty
|      +--ro size-g?       empty
|      +--ro size-h?       uint16
|      +--ro size-u?       uint16
+--rw tests
| +--rw test* [test-name]
|    +--rw test-name        -> ../config/test-name
|    +--rw config
|    | +--rw test-name?     string
|    | +--rw description?   cml-data-types:cml_line_t
|    | +--rw direction?     ipi-sat-types:sat_direction_t
|    | +--rw stream-run?    ipi-sat-types:sat_stream_run_t
|    +--ro state
|    | +--ro test-name?     string
|    | +--ro description?   cml-data-types:cml_line_t
|    | +--ro direction?     ipi-sat-types:sat_direction_t
|    | +--ro stream-run?    ipi-sat-types:sat_stream_run_t
|    +--rw service-tests
|    | +--rw service-test* [test-type]
|    |    +--rw test-type    -> ../config/test-type
|    |    +--rw config
|    |    | +--rw test-type?   ipi-sat-types:sat_service_t
|    |    | +--rw duration?    empty
|    |    | +--rw hours?       uint8
```


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```
|    |    | +--rw minutes?     uint8
|    |    | +--rw seconds?     uint8
|    |    +--ro state
|    |       +--ro test-type?   ipi-sat-types:sat_service_t
|    |       +--ro duration?    empty
|    |       +--ro hours?       uint8
|    |       +--ro minutes?     uint8
|    |       +--ro seconds?     uint8
|    +--rw streams
|    | +--rw stream* [stream-name]
|    |    +--rw stream-name      -> ../config/stream-name
|    |    +--rw config
|    |    | +--rw stream-name?           string
|    |    | +--rw description?           cml-data-types:cml_line_t
|    |    | +--rw rate-profile?          -> /sat/rate-profiles/rate-profile/config/rate-pname
|    |    | +--rw acceptance-profile?    -> /sat/acceptance-profiles/acceptance-profile/config/acceptance-pname
|    |    | +--rw frame-size-profile?    -> /sat/frame-size-profiles/frame-size-profile/config/size-pname
|    |    | +--rw frame-sequence?        string
|    |    | +--rw frame-data-pattern?    ipi-sat-types:sat_data_pattern_t
|    |    | +--rw frame-delay-disable?   empty
|    |    +--ro state
|    |    | +--ro stream-name?           string
|    |    | +--ro description?           cml-data-types:cml_line_t
|    |    | +--ro rate-profile?          -> /sat/rate-profiles/rate-profile/config/rate-pname
|    |    | +--ro acceptance-profile?    -> /sat/acceptance-profiles/acceptance-profile/config/acceptance-pname
|    |    | +--ro frame-size-profile?    -> /sat/frame-size-profiles/frame-size-profile/config/size-pname
|    |    | +--ro frame-sequence?        string
|    |    | +--ro frame-data-pattern?    ipi-sat-types:sat_data_pattern_t
|    |    | +--ro frame-delay-disable?   empty
|    |    +--rw frame-payload
|    |       +--rw config!
|    |       | +--rw frame-payload       empty
|    |       | +--rw dst-mac?            ipi-sat-types:sat_mac_addr_t
|    |       | +--rw source-interface?   -> /ipi-interface:interfaces/interface/name
|    |       | +--rw tag-type?           ipi-sat-types:sat_tag_type_t
|    |       | +--rw vlan-id?            uint16
```

```
|    |       | +--rw inner-vlan-id?      uint16
|    |       +--ro state
|    |       | +--ro frame-payload       empty
|    |       | +--ro dst-mac?            ipi-sat-types:sat_mac_addr_t
|    |       | +--ro source-interface?   -> /ipi-interface:interfaces/interface/name
|    |       | +--ro tag-type?           ipi-sat-types:sat_tag_type_t
|    |       | +--ro vlan-id?            uint16
|    |       | +--ro inner-vlan-id?      uint16
|    |       +--rw cfm
|    |         +--rw config!
|    |         | +--rw domain-name    string
|    |         | +--rw ma-name        string
|    |         | +--rw mep-id         uint16
|    |         +--ro state
|    |           +--ro domain-name    string
|    |           +--ro ma-name        string
|    |           +--ro mep-id         uint16
|    +--ro runs
|    | +--ro run* [run-id]
|    |   +--ro run-id            -> ../state/run-id
|    |   +--ro state
|    |   | +--ro run-id?        uint8
|    |   | +--ro description?   string
|    |   | +--ro oper-state?    ipi-sat-types:sat_oper_status
|    |   | +--ro start-time?    string
|    |   | +--ro end-time?      string
|    |   | +--ro direction?     ipi-sat-types:sat_direction_t
|    |   | +--ro stream-run?    ipi-sat-types:sat_stream_run_t
|    |   +--ro service-streams
|    |     +--ro service-stream* [stream-name]
|    |       +--ro stream-name    -> ../state/stream-name
|    |       +--ro state
|    |       | +--ro stream-name?          string
|    |       | +--ro cir?                  string
|    |       | +--ro cir-range?            uint32
|    |       | +--ro cir-unit?             ipi-sat-types:sat_rate_unit_t
```


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```
|   |       | +--ro cir-cos?             uint8
|   |       | +--ro cir-dei?             uint8
|   |       | +--ro eir?                 string
|   |       | +--ro eir-range?           uint32
|   |       | +--ro eir-unit?            ipi-sat-types:sat_rate_unit_t
|   |       | +--ro eir-cos?             uint8
|   |       | +--ro eir-dei?             uint8
|   |       | +--ro color-mthod?         string
|   |       | +--ro color-aware?         ipi-sat-types:sat_color_aware_type
|   |       | +--ro test-mtu?            string
|   |       | +--ro frame-info?          string
|   |       | +--ro cir-flr?             string
|   |       | +--ro cir-ftd-delay?       uint16
|   |       | +--ro cir-ftd-delay-unit?  ipi-sat-types:sat_delay_rate_t
|   |       | +--ro cir-fdv-delay?       uint16
|   |       | +--ro cir-fdv-delay-unit?  ipi-sat-types:sat_delay_rate_t
|   |       | +--ro interface-name?      string
|   |       | +--ro destination-mac?     string
|   |       | +--ro encap-tag?           ipi-sat-types:sat_tag_type_t
|   |       | +--ro outer-vid?           uint8
|   |       | +--ro inner-vlan-id?       uint8
|   |       | +--ro cfm-details?         string
|   |       +--ro s-tests
|   |         +--ro s-test* [stest-name]
|   |           +--ro stest-name    -> ../state/stest-name
|   |           +--ro state
|   |           | +--ro stest-name?            string
|   |           | +--ro load?                  string
|   |           | +--ro opera-status?          ipi-sat-types:sat_oper_status
|   |           | +--ro test-duration?         string
|   |           | +--ro start-time?            string
|   |           | +--ro end-time?              string
|   |           | +--ro tx-packets?            uint64
|   |           | +--ro tx-bytes?              uint64
|   |           | +--ro rx-packets?            uint64
|   |           | +--ro rx-bytes?              uint64
```

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```
|    |              | +--ro frame-loss?              uint64
|    |              | +--ro frame-loss-ratio?        string
|    |              | +--ro frame-delay?             string
|    |              | +--ro frame-delay-variation?   string
|    |              | +--ro frame-delay-min?         string
|    |              | +--ro frame-delay-max?         string
|    |              | +--ro frame-delay-exceed?      string
|    |              | +--ro out-of-order-packets?    uint64
|    |              | +--ro error-packets?           uint64
|    |              +--ro results
|    |                +--ro result* [result-name]
|    |                   +--ro result-name    -> ../state/result-name
|    |                   +--ro state
|    |                      +--ro result-name?             string
|    |                      +--ro tx-packets?              uint64
|    |                      +--ro tx-bytes?                uint64
|    |                      +--ro rx-packets?              uint64
|    |                      +--ro rx-bytes?                uint64
|    |                      +--ro frame-loss?              uint64
|    |                      +--ro frame-loss-ratio?        string
|    |                      +--ro frame-delay?             string
|    |                      +--ro frame-delay-variation?   string
|    |                      +--ro frame-delay-min?         string
|    |                      +--ro frame-delay-max?         string
|    |                      +--ro frame-delay-exceed?      string
|    |                      +--ro out-of-order-packets?    uint64
|    |                      +--ro error-packets?           uint64
|    +--ro summaries
|       +--ro summary* [run]
|          +--ro run      -> ../state/run
|          +--ro state
|             +--ro run?          uint8
|             +--ro status?       ipi-sat-types:sat_summary_status
|             +--ro start-time?   string
|             +--ro end-time?     string
+--rw interfaces
```


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```
      +--rw interface* [interface-name]
         +--rw interface-name    -> ../config/interface-name
         +--rw config
         |  +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
         |  +--rw data-loopback?    ipi-sat-types:sat_direction_t
         +--ro state
            +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
            +--ro data-loopback?    ipi-sat-types:sat_direction_t

rpcs:
  +---x service-activation-test-start {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
  |  +---w input
  |     +---w test-name               string
  |     +---w sat-unit?               ipi-sat-types:sat_service_t
  |     +---w service-stream?         string
  |     +---w repeat-last-fail-test?   ipi-sat-types:sat_repeat_last_fail_test_t
  +---x service-activation-test-abort {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
  |  +---w input
  |     +---w test-name         string
  |     +---w sat-unit?         ipi-sat-types:sat_service_t
  |     +---w service-stream?   string
  +---x service-activation-test-clear {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
  |  +---w input
  |     +---w test-name         string
  |     +---w sat-unit?         ipi-sat-types:sat_service_t
  |     +---w service-stream?   string
  +---x data-loopback-start {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
  |  +---w input
  |     +---w interface-name    string
  |     +---w timeout           uint16
  +---x data-loopback-abort {feature-list:HAVE_CFM,feature-list:HAVE_ONMD,feature-list:HAVE_ETH_SAT}?
     +---w input
        +---w interface-name    string
        +---w timeout           uint16

notifications:
```

```
  +---n sat-tests-results-completed
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro run?          uint8
     +--ro test-name?    string
     +--ro status?       ipi-sat-types:sat_summary_status
```

ipi-seamless-bfd

```
  +--rw seamless-bfd
     +--ro state
     |  +--ro remote-discriminator*   string
     +--rw sr-policies
     |  +--rw sr-policy* [lsp-type sr-policy-name]
     |     +--rw lsp-type              -> ../config/lsp-type
     |     +--rw sr-policy-name        -> ../config/sr-policy-name
     |     +--rw config
     |     |  +--rw lsp-type?         ipi-sbfd-types:sbfd_sr_type_t
     |     |  +--rw sr-policy-name?   string
     |     +--ro state
     |     |  +--ro lsp-type?         ipi-sbfd-types:sbfd_sr_type_t
     |     |  +--ro sr-policy-name?   string
     |     +--rw session-attributes
     |        +--rw config
     |        |  +--rw admin-down?   empty
     |        +--ro state
     |        |  +--ro admin-down?   empty
     |        +--rw intervals
     |           +--rw interval* [minimum-tx detection-multiplier]
     |              +--rw minimum-tx              -> ../config/minimum-tx
     |              +--rw detection-multiplier    -> ../config/detection-multiplier
     |              +--rw config
     |              |  +--rw minimum-tx?            uint32
     |              |  +--rw detection-multiplier?   uint8
     |              +--ro state
```


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```
|              +--ro minimum-tx?             uint32
|              +--ro detection-multiplier?   uint8
+--rw local-discriminators
  +--rw local-discriminator* [discriminator]
    +--rw discriminator    -> ../config/discriminator
    +--rw config
    | +--rw discriminator?              string
    | +--rw required-min-rx-interval?   uint32
    +--ro state
      +--ro discriminator?              string
      +--ro required-min-rx-interval?   uint32
```

ipi-segment-routing

```
+--rw segment-routing {feature-list:HAVE_SRV6_OR_HAVE_SR_MPLS}?
  +--rw config!
  | +--rw enable              empty
  | +--rw flex-algo-enable?   empty
  +--ro state
  | +--ro enable              empty
  | +--ro flex-algo-enable?   empty
  +--rw interfaces {feature-list:HAVE_SR_MPLS}?
  | +--rw interface* [name]
  |    +--rw name                       -> ../config/name
  |    +--rw config
  |    | +--rw name?   -> /ipi-interface:interfaces/interface/name
  |    +--rw adjacency-segments {feature-list:HAVE_SR_MPLS}?
  |    | +--rw adjacency-segment* [adj-sid-proto]
  |    |    +--rw adj-sid-proto    -> ../config/adj-sid-proto
  |    |    +--rw config
  |    |    | +--rw adj-sid-proto?      ipi-sr-types:sr_adj_proto_type
```

```
|    |    | +--rw adj-sid-absolute?   uint32
|    |    | +--rw adj-sid-index?      uint32
|    |    +--ro state
|    |      +--ro adj-sid-proto?      ipi-sr-types:sr_adj_proto_type
|    |      +--ro adj-sid-absolute?   uint32
|    |      +--ro adj-sid-index?      uint32
|    +--rw prefix-segment-algorithms {feature-list:HAVE_SR_MPLS}?
|      +--rw prefix-segment-algorithm* [algorithm-num]
|        +--rw algorithm-num    -> ../config/algorithm-num
|        +--rw config
|        | +--rw algorithm-num?   ipi-sr-types:sr_algo_choice_t
|        | +--rw sid-absolute?    uint32
|        | +--rw sid-index?       uint32
|        | +--rw exp-null?        ipi-sr-types:if_sr_prefix_flag_t
|        | +--rw n-flag-clear?    ipi-sr-types:if_sr_n_flag_clear_t
|        +--ro state
|          +--ro algorithm-num?   ipi-sr-types:sr_algo_choice_t
|          +--ro sid-absolute?    uint32
|          +--ro sid-index?       uint32
|          +--ro exp-null?        ipi-sr-types:if_sr_prefix_flag_t
|          +--ro n-flag-clear?    ipi-sr-types:if_sr_n_flag_clear_t
+--rw sr-mpls {feature-list:HAVE_SR_MPLS}?
| +--rw sr-prefer-over-ldp
| | +--rw config
| | | +--rw enable-preference?   empty
| | +--ro state
| |   +--ro enable-preference?   empty
| +--rw bindings
| | +--rw mapping-server
| |   +--rw config!
| |   | +--rw enable    empty
| |   +--ro state
| |   | +--ro enable    empty
| |   +--rw srms-preferenece
| |   | +--rw config
| |   | | +--rw preference?   uint8
```


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```
| |    | +--ro state
| |    |    +--ro preference?   uint8
| |    +--rw prefix-sid-map-ipv4
| |       +--rw config!
| |       | +--rw enable    empty
| |       +--ro state
| |       | +--ro enable    empty
| |       +--rw mapping-entries
| |          +--rw mapping-entry* [start-address start-sid]
| |             +--rw start-address    -> ../config/start-address
| |             +--rw start-sid        -> ../config/start-sid
| |             +--rw config
| |             | +--rw start-address?   cml-data-types:cml_ipv4_prefix_t
| |             | +--rw start-sid?       uint32
| |             | +--rw range?           uint32
| |             | +--rw attached?        boolean
| |             | +--rw algorithm-num?   uint32
| |             +--ro state
| |             | +--ro start-address?   cml-data-types:cml_ipv4_prefix_t
| |             | +--ro start-sid?       uint32
| |             | +--ro range?           uint32
| |             | +--ro attached?        boolean
| |             | +--ro algorithm-num?   uint32
| |             +--ro ipv4-table
| |                +--ro state
| |                   +--ro start-prefix?      cml-data-types:cml_ip_prefix_addr_t
| |                   +--ro algorithm-num?     uint8
| |                   +--ro start-sid-index?   uint16
| |                   +--ro range?             uint16
| |                   +--ro end-prefix?        cml-data-types:cml_ip_prefix_addr_t
| |                   +--ro end-sid-index?     uint16
| |                   +--ro attached?          empty
| |                   +--ro preference?        uint8
| +--rw global-block {feature-list:HAVE_SR_MPLS}?
| | +--rw config!
| | | +--rw start    uint32
```

```
| | |  +--rw end      uint32
| |  +--ro state
| |     +--ro start    uint32
| |     +--ro end      uint32
|  +--rw local-block {feature-list:HAVE_SR_MPLS}?
|     +--rw config!
|     |  +--rw start    uint32
|     |  +--rw end      uint32
|     +--ro state
|        +--ro start    uint32
|        +--ro end      uint32
+--rw traffic-engineering {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
|  +--rw config!
| |  +--rw enable                 empty
| |  +--rw fast-reroute-enable?   empty {feature-list:HAVE_SR_POLICY}?
|  +--ro state
| |  +--ro enable                 empty
| |  +--ro fast-reroute-enable?   empty {feature-list:HAVE_SR_POLICY}?
|  +--rw attributes
| |  +--rw segment-lists {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
| |     +--rw segment-list* [list-name]
| |        +--rw list-name    -> ../config/list-name
| |        +--rw config
| |        |  +--rw list-name?   string
| |        +--ro state
| |        |  +--ro list-name?   string
| |        +--rw segments
| |           +--rw segment* [segment-index type]
| |           |  +--rw segment-index     -> ../config/segment-index
| |           |  +--rw type              -> ../config/type
| |           |  +--rw config
| |           |  |  +--rw segment-index?   uint32
| |           |  |  +--rw type?            ipi-sr-types:srte_segment_type_mpls_t
| |           |  +--ro state
| |           |  |  +--ro segment-index?   uint32
| |           |  |  +--ro type?            ipi-sr-types:srte_segment_type_mpls_t
```


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```
| |       | +--rw segment-type-1 {feature-list:HAVE_SR_MPLS}?
| |       |    +--rw config
| |       |    | +--rw sid-value?   uint32
| |       |    +--ro state
| |       |      +--ro sid-value?   uint32
| |       +--rw segment-v6* [segment-index type]
| |         +--rw segment-index     -> ../config/segment-index
| |         +--rw type              -> ../config/type
| |         +--rw config
| |         | +--rw segment-index?   uint32
| |         | +--rw type?           ipi-sr-types:srte_segment_type_2_t
| |         +--ro state
| |         | +--ro segment-index?   uint32
| |         | +--ro type?           ipi-sr-types:srte_segment_type_2_t
| |         +--rw segment-type-2 {feature-list:HAVE_SRV6}?
| |           +--rw config
| |           | +--rw prefix?   inet:ipv6-address
| |           +--ro state
| |             +--ro prefix?   inet:ipv6-address
| +--rw policies {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
| | +--rw policy* [name]
| |   +--rw name              -> ../config/name
| |   +--rw policy-keys
| |   | +--rw policy-key* [color end-point]
| |   |   +--rw color       -> ../config/color
| |   |   +--rw end-point   -> ../config/end-point
| |   |   +--rw config
| |   |   | +--rw color?       uint32
| |   |   | +--rw end-point?   inet:ip-address
| |   |   +--ro state
| |   |     +--ro color?       uint32
| |   |     +--ro end-point?   inet:ip-address
| |   +--rw config
| |   | +--rw name?                string
| |   | +--rw admin-state?         empty
| |   | +--rw explicit-null?       ipi-sr-types:srte_explicite_null_type_t {feature-list:HAVE_SR_POLICY}?
```

```
| |    | +--rw cspf-retry-limit?      uint32 {feature-list:HAVE_SR_POLICY}?
| |    | +--rw cspf-retry-interval?   uint32 {feature-list:HAVE_SR_POLICY}?
| |    | +--rw entropy-erld?          uint8 {feature-list:HAVE_SR_POLICY}?
| |    | +--rw bsid-value?            uint32 {feature-list:HAVE_SR_POLICY}?
| |    +--rw candidate-paths
| |    | +--rw candidate-path* [discriminator protocol-origin originator]
| |    |    +--rw discriminator       -> ../config/discriminator
| |    |    +--rw protocol-origin     -> ../config/protocol-origin
| |    |    +--rw originator          -> ../config/originator
| |    |    +--rw config
| |    |    | +--rw discriminator?     uint32
| |    |    | +--rw protocol-origin?   ipi-sr-types:srte_protocol_origin_type_type_t
| |    |    | +--rw originator?        string
| |    |    | +--rw preference?        uint32
| |    |    +--ro state
| |    |    | +--ro discriminator?           uint32
| |    |    | +--ro protocol-origin?         ipi-sr-types:srte_protocol_origin_type_type_t
| |    |    | +--ro originator?              string
| |    |    | +--ro preference?              uint32
| |    |    | +--ro is-valid?                boolean
| |    |    | +--ro non-selection-reason?    cml-data-types:cml_line_t
| |    |    | +--ro is-best-candidate-path?  boolean
| |    |    +--ro forwarding-paths
| |    |    | +--ro forwarding-path
| |    |    |    +--ro state
| |    |    |    | +--ro path-id?             uint8
| |    |    |    | +--ro next-hop-address?    inet:ip-address
| |    |    |    | +--ro outgoing-interface?  string
| |    |    |    | +--ro path-type?           string
| |    |    |    +--ro label-stack
| |    |    |       +--ro labels
| |    |    |          +--ro state
| |    |    |             +--ro label?  string
| |    |    +--rw dynamic {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| |    |    | +--rw config
| |    |    | | +--rw pcep?        empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
```


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```
| |    |    | | +--rw isis?         string
| |    |    | | +--rw ospf?         int32
| |    |    | | +--rw ospf-empty?   empty
| |    |    | +--ro state
| |    |    | | +--ro pcep?         empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |    |    | | +--ro isis?         string
| |    |    | | +--ro ospf?         int32
| |    |    | | +--ro ospf-empty?   empty
| |    |    | +--rw constraints
| |    |    |    +--rw config!
| |    |    |    | +--rw enable       empty
| |    |    |    | +--rw hop-limit?   uint8
| |    |    |    +--ro state
| |    |    |    | +--ro enable       empty
| |    |    |    | +--ro hop-limit?   uint8
| |    |    |    +--rw bounds
| |    |    |    | +--rw bound* [metric-type]
| |    |    |    |    +--rw metric-type    -> ../config/metric-type
| |    |    |    |    +--rw config
| |    |    |    |    | +--rw metric-type?     ipi-sr-types:srte_cp_metric_type_t
| |    |    |    |    | +--rw bound?           uint32
| |    |    |    |    | +--rw segment-bound?   uint32
| |    |    |    |    +--ro state
| |    |    |    |      +--ro metric-type?     ipi-sr-types:srte_cp_metric_type_t
| |    |    |    |      +--ro bound?           uint32
| |    |    |    |      +--ro segment-bound?   uint32
| |    |    |    +--rw admin-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| |    |    |    | +--rw admin-group* [admin-group-name] {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
| |    |    |    |    +--rw admin-group-name    -> ../config/admin-group-name
| |    |    |    |    +--rw config
| |    |    |    |    | +--rw affinity-type?      ipi-sr-types:sr_te_admin_group_type_t
| |    |    |    |    | +--rw admin-group-name?   string
| |    |    |    |    +--ro state
| |    |    |    |      +--ro affinity-type?      ipi-sr-types:sr_te_admin_group_type_t
| |    |    |    |      +--ro admin-group-name?   string
| |    |    |    +--rw extended-admin-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
```

```
   | |    |    |    | +--rw extended-admin-group* [extended-admin-group-name] {feature-
list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
   | |    |    |    |    +--rw extended-admin-group-name    -> ../config/extended-admin-group-name
   | |    |    |    |    +--rw config
   | |    |    |    |    | +--rw extended-admin-affinity-type?   ipi-sr-types:sr_te_extended_admin_group_type_t
   | |    |    |    |    | +--rw extended-admin-group-name?      string
   | |    |    |    |    +--ro state
   | |    |    |    |      +--ro extended-admin-affinity-type?   ipi-sr-types:sr_te_extended_admin_group_type_t
   | |    |    |    |      +--ro extended-admin-group-name?      string
   | |    |    |    +--rw srlg-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
   | |    |    |    | +--rw srlg-group* [srlg-group-name] {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
   | |    |    |    |    +--rw srlg-group-name    -> ../config/srlg-group-name
   | |    |    |    |    +--rw config
   | |    |    |    |    | +--rw srlg-affinity-type?   ipi-sr-types:sr_te_srlg_affinity_type_t
   | |    |    |    |    | +--rw srlg-group-name?      string
   | |    |    |    |    +--ro state
   | |    |    |    |      +--ro srlg-affinity-type?   ipi-sr-types:sr_te_srlg_affinity_type_t
   | |    |    |    |      +--ro srlg-group-name?      string
   | |    |    |    +--rw ip
   | |    |    |    | +--rw include-hop* [address]
   | |    |    |    |    +--rw address    -> ../config/address
   | |    |    |    |    +--rw config
   | |    |    |    |    | +--rw address?   inet:ip-address
   | |    |    |    |    | +--rw type?      ipi-sr-types:srte_ip_constraint_hop_type_t
   | |    |    |    |    +--ro state
   | |    |    |    |      +--ro address?   inet:ip-address
   | |    |    |    |      +--ro type?      ipi-sr-types:srte_ip_constraint_hop_type_t
   | |    |    |    +--rw ip-address-filters
   | |    |    |    | +--rw ip-address-filter* [ihaf-address]
   | |    |    |    |    +--rw ihaf-address    -> ../config/ihaf-address
   | |    |    |    |    +--rw config
   | |    |    |    |    | +--rw ihaf-affinity-type?   ipi-sr-types:srte_ip_constraint_hop_filter_type_t
   | |    |    |    |    | +--rw ihaf-address?         inet:ip-address
   | |    |    |    |    +--ro state
   | |    |    |    |      +--ro ihaf-affinity-type?   ipi-sr-types:srte_ip_constraint_hop_filter_type_t
   | |    |    |    |      +--ro ihaf-address?         inet:ip-address
   | |    |    |    +--rw segment-rule
```


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```
| |    |    |    | +--rw config!
| |    |    |    | | +--rw enable    empty
| |    |    |    | +--ro state
| |    |    |    | | +--ro enable    empty
| |    |    |    | +--rw property
| |    |    |    |    +--rw config!
| |    |    |    |    | +--rw dataplane-type?    ipi-sr-types:sr_dyn_cp_dataplane_type_t
| |    |    |    |    | +--rw sid-algorithm?     uint32
| |    |    |    |    | +--rw protection-type?   ipi-sr-types:sr_dyn_cp_protection_type_t
| |    |    |    |    +--ro state
| |    |    |    |      +--ro dataplane-type?    ipi-sr-types:sr_dyn_cp_dataplane_type_t
| |    |    |    |      +--ro sid-algorithm?     uint32
| |    |    |    |      +--ro protection-type?   ipi-sr-types:sr_dyn_cp_protection_type_t
| |    |    |    +--rw disjoint-paths
| |    |    |      +--rw disjoint-path* [group-id disjoint-type]
| |    |    |        +--rw group-id         -> ../config/group-id
| |    |    |        +--rw disjoint-type    -> ../config/disjoint-type
| |    |    |        +--rw config!
| |    |    |        | +--rw group-id?        uint32
| |    |    |        | +--rw disjoint-type?   ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
| |    |    |        | +--rw sub-id?          uint32
| |    |    |        +--ro state
| |    |    |          +--ro group-id?        uint32
| |    |    |          +--ro disjoint-type?   ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
| |    |    |          +--ro sub-id?          uint32
| |    |    +--rw explicit
| |    |      +--rw segment-lists {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
| |    |        +--rw segment-list* [list-name]
| |    |          +--rw list-name    -> ../config/list-name
| |    |          +--rw config
| |    |            +--rw list-name?   string
| |    +--ro state
| |    | +--ro statistics {feature-list:HAVE_SR_POLICY}?
| |    | | +--ro tx-bytes?     uint64
| |    | | +--ro rx-bytes?     uint64
| |    | | +--ro tx-packets?   uint64
```

```
| |    | |  +--ro rx-packets?   uint64
| |    |  +--ro name?                string
| |    |  +--ro admin-state?          empty
| |    |  +--ro explicit-null?        ipi-sr-types:srte_explicite_null_type_t {feature-list:HAVE_SR_POLICY}?
| |    |  +--ro cspf-retry-limit?     uint32 {feature-list:HAVE_SR_POLICY}?
| |    |  +--ro cspf-retry-interval?  uint32 {feature-list:HAVE_SR_POLICY}?
| |    |  +--ro entropy-erld?         uint8 {feature-list:HAVE_SR_POLICY}?
| |    |  +--ro bsid-value?           uint32 {feature-list:HAVE_SR_POLICY}?
| |    |  +--ro oper-state?           ipi-sr-types:srte_policy_oper_state_t
| |    |  +--ro transition-count?     uint32
| |    |  +--ro up-time?              string
| |    |  +--ro down-time?            string
| |    |  +--ro bsid-alloc-mode?      string
| |    |  +--ro bsid-oper-state?      ipi-sr-types:sr_policy_bsid_oper_state
| |    +--rw pce {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |       +--rw config
| |       |  +--rw pce-lsp-delegate?   empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |       |  +--rw pce-state-report?   empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |       |  +--rw pce-entity-id?      uint32 {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |       +--ro state
| |          +--ro pce-lsp-delegate?   empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |          +--ro pce-state-report?   empty {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| |          +--ro pce-entity-id?      uint32 {feature-list:HAVE_PCEP_SR_OR_HAVE_PCEP_SRV6}?
| +--rw on-demand-nexthops {feature-list:HAVE_SR_POLICY}?
|    +--rw on-demand-nexthop* [color]
|       +--rw color             -> ../config/color
|       +--rw config
|       |  +--rw color?               uint32
|       |  +--rw flex-algo?           uint8
|       |  +--rw cspf-retry-limit?    uint16
|       |  +--rw cspf-retry-interval? uint16
|       |  +--rw binding-sid-label?   uint16
|       |  +--rw fallback-native-sr?  empty
|       |  +--rw fallback-flex-algo?  uint8
|       +--ro state
|       |  +--ro color?               uint32
```


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```
|       | +--ro flex-algo?             uint8
|       | +--ro cspf-retry-limit?      uint16
|       | +--ro cspf-retry-interval?   uint16
|       | +--ro binding-sid-label?     uint16
|       | +--ro fallback-native-sr?    empty
|       | +--ro fallback-flex-algo?    uint8
|       +--rw candidate-paths
|       | +--rw candidate-path* [discriminator protocol-origin originator]
|       |    +--rw discriminator      -> ../config/discriminator
|       |    +--rw protocol-origin    -> ../config/protocol-origin
|       |    +--rw originator         -> ../config/originator
|       |    +--rw config
|       |    | +--rw discriminator?     uint32
|       |    | +--rw protocol-origin?   ipi-sr-types:srte_protocol_origin_type_type_t
|       |    | +--rw originator?        string
|       |    | +--rw preference?        uint16
|       |    +--ro state
|       |    | +--ro discriminator?     uint32
|       |    | +--ro protocol-origin?   ipi-sr-types:srte_protocol_origin_type_type_t
|       |    | +--ro originator?        string
|       |    | +--ro preference?        uint16
|       |    +--rw dynamic {feature-list:HAVE_SR_POLICY}?
|       |       +--rw config
|       |       | +--rw pcep?              empty {feature-list:HAVE_PCEP_SR}?
|       |       | +--rw isis-instance-id?  string
|       |       | +--rw ospf-process-id?   int32
|       |       | +--rw ospf-empty?        empty
|       |       +--ro state
|       |       | +--ro pcep?              empty {feature-list:HAVE_PCEP_SR}?
|       |       | +--ro isis-instance-id?  string
|       |       | +--ro ospf-process-id?   int32
|       |       | +--ro ospf-empty?        empty
|       |       +--rw constraints
|       |          +--rw config!
|       |          | +--rw enable      empty
|       |          | +--rw hop-limit?  uint8
```

```
|       |       +--ro state
|       |       |  +--ro enable       empty
|       |       |  +--ro hop-limit?   uint8
|       |       +--rw bounds
|       |       |  +--rw bound* [metric-type]
|       |       |     +--rw metric-type    -> ../config/metric-type
|       |       |     +--rw config
|       |       |     |  +--rw metric-type?   ipi-sr-types:srte_cp_metric_type_t
|       |       |     |  +--rw bound?         uint32
|       |       |     +--ro state
|       |       |        +--ro metric-type?   ipi-sr-types:srte_cp_metric_type_t
|       |       |        +--ro bound?         uint32
|       |       +--rw affinity-admin-groups
|       |       |  +--rw affinity-admin-group* [admin-group-name] {feature-list:HAVE_SR_POLICY}?
|       |       |     +--rw admin-group-name    -> ../config/admin-group-name
|       |       |     +--rw config
|       |       |     |  +--rw affinity-type?      ipi-sr-types:sr_te_admin_group_type_t
|       |       |     |  +--rw admin-group-name?   string
|       |       |     +--ro state
|       |       |        +--ro affinity-type?      ipi-sr-types:sr_te_admin_group_type_t
|       |       |        +--ro admin-group-name?   string
|       |       +--rw affinity-extended-admin-groups
|       |       |  +--rw affinity-extended-admin-group* [extended-admin-group-name] {feature-
list:HAVE_SR_POLICY}?
|       |       |     +--rw extended-admin-group-name    -> ../config/extended-admin-group-name
|       |       |     +--rw config
|       |       |     |  +--rw extended-admin-affinity-type?   ipi-sr-types:sr_te_extended_admin_group_type_t
|       |       |     |  +--rw extended-admin-group-name?      string
|       |       |     +--ro state
|       |       |        +--ro extended-admin-affinity-type?   ipi-sr-types:sr_te_extended_admin_group_type_t
|       |       |        +--ro extended-admin-group-name?      string
|       |       +--rw srlg-groups {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
|       |       |  +--rw srlg-group* [srlg-group-name] {feature-list:HAVE_SR_POLICY_OR_HAVE_PCEP_SRV6}?
|       |       |     +--rw srlg-group-name    -> ../config/srlg-group-name
|       |       |     +--rw config
|       |       |     |  +--rw srlg-affinity-type?   ipi-sr-types:sr_te_srlg_affinity_type_t
|       |       |     |  +--rw srlg-group-name?      string
```


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```
|       |       |    +--ro state
|       |       |       +--ro srlg-affinity-type?   ipi-sr-types:sr_te_srlg_affinity_type_t
|       |       |       +--ro srlg-group-name?      string
|       |       +--rw ip
|       |       | +--rw include-hops
|       |       |    +--rw include-hop* [address]
|       |       |       +--rw address    -> ../config/address
|       |       |       +--rw config
|       |       |       | +--rw address?   inet:ip-address
|       |       |       | +--rw type?      ipi-sr-types:srte_ip_constraint_hop_type_t
|       |       |       +--ro state
|       |       |          +--ro address?   inet:ip-address
|       |       |          +--ro type?      ipi-sr-types:srte_ip_constraint_hop_type_t
|       |       +--rw ip-address-filters
|       |       | +--rw ip-address-filter* [ihaf-address]
|       |       |    +--rw ihaf-address    -> ../config/ihaf-address
|       |       |    +--rw config
|       |       |    | +--rw ihaf-affinity-type?   ipi-sr-types:srte_ip_constraint_hop_filter_type_t
|       |       |    | +--rw ihaf-address?         inet:ip-address
|       |       |    +--ro state
|       |       |       +--ro ihaf-affinity-type?   ipi-sr-types:srte_ip_constraint_hop_filter_type_t
|       |       |       +--ro ihaf-address?         inet:ip-address
|       |       +--rw segment-rule
|       |       | +--rw config!
|       |       | | +--rw enable    empty
|       |       | +--ro state
|       |       | | +--ro enable    empty
|       |       | +--rw property
|       |       |    +--rw config!
|       |       |    | +--rw dataplane-type?    ipi-sr-types:sr_dyn_cp_dataplane_type_t
|       |       |    | +--rw sid-algorithm?     uint32
|       |       |    | +--rw protection-type?   ipi-sr-types:sr_dyn_cp_protection_type_t
|       |       |    +--ro state
|       |       |       +--ro dataplane-type?    ipi-sr-types:sr_dyn_cp_dataplane_type_t
|       |       |       +--ro sid-algorithm?     uint32
|       |       |       +--ro protection-type?   ipi-sr-types:sr_dyn_cp_protection_type_t
```

```
|       |          +--rw disjoint-paths
|       |            +--rw disjoint-path* [group-id disjoint-type]
|       |              +--rw group-id         -> ../config/group-id
|       |              +--rw disjoint-type    -> ../config/disjoint-type
|       |              +--rw config!
|       |              | +--rw group-id?        uint32
|       |              | +--rw disjoint-type?   ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
|       |              | +--rw sub-id?          uint32
|       |              +--ro state
|       |                +--ro group-id?        uint32
|       |                +--ro disjoint-type?   ipi-sr-types:sr_dyn_cp_disjoint_path_type_t
|       |                +--ro sub-id?          uint32
|       +--rw pce {feature-list:HAVE_PCEP_SR}?
|         +--rw config
|         | +--rw pce-state-report?   empty {feature-list:HAVE_PCEP_SR}?
|         | +--rw pce-entity-id?      uint8 {feature-list:HAVE_PCEP_SR}?
|         | +--rw pce-lsp-delegate?   empty {feature-list:HAVE_PCEP_SR}?
|         +--ro state
|           +--ro pce-state-report?   empty {feature-list:HAVE_PCEP_SR}?
|           +--ro pce-entity-id?      uint8 {feature-list:HAVE_PCEP_SR}?
|           +--ro pce-lsp-delegate?   empty {feature-list:HAVE_PCEP_SR}?
+--rw srv6 {feature-list:HAVE_SRV6}?
| +--rw config!
| | +--rw enable    empty
| +--ro state
| | +--ro enable    empty
| +--rw locators {feature-list:HAVE_SRV6}?
| | +--rw config!
| | | +--rw enable    empty
| | +--ro state
| | | +--ro enable    empty
| | +--rw locator* [locator-name]
| |   +--rw locator-name    -> ../config/locator-name
| |   +--rw config
| |   | +--rw locator-name?   string
| |   | +--rw prefix?         cml-data-types:cml_ipv6_prefix_t
```


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```
| |     +--ro state
| |        +--ro locator-name?   string
| |        +--ro prefix?         cml-data-types:cml_ipv6_prefix_t
| |        +--ro uptime?         string
| +--ro services-entries
| | +--ro services-entry* [fec-ipv4-prefix service-vrf-id]
| |    +--ro fec-ipv4-prefix    -> ../state/fec-ipv4-prefix
| |    +--ro service-vrf-id     -> ../state/service-vrf-id
| |    +--ro state
| |       +--ro fec-ipv4-prefix?       cml-data-types:cml_ipv4_prefix_t
| |       +--ro service-vrf-id?        uint32
| |       +--ro service-vrf-name?      string
| |       +--ro service-type?          string
| |       +--ro flags?                 string
| |       +--ro address-family?        uint32
| |       +--ro sid?                   inet:ipv6-address
| |       +--ro nexthop-ipv6-prefix?   inet:ipv6-address
| |       +--ro service-policy-name?   string
| +--ro transport-entries
| | +--ro transport-entry* [fec]
| |    +--ro fec            -> ../state/fec
| |    +--ro state
| |    | +--ro fec?              inet:ipv6-address
| |    | +--ro policy-name?      string
| |    | +--ro policy-id?        uint32
| |    | +--ro transport-color?  uint32
| |    | +--ro code?             string
| |    | +--ro is-primary?       boolean
| |    | +--ro out-sid?          inet:ipv6-address
| |    | +--ro out-interface?    string
| |    | +--ro nexthop?          inet:ipv6-address
| |    +--ro ftn-entries
| |       +--ro ftn-entry* [vrf-id fec-prefix]
| |          +--ro vrf-id       -> ../state/vrf-id
| |          +--ro fec-prefix   -> ../state/fec-prefix
| |          +--ro state
```

```
  | |          +--ro vrf-id?          uint32
  | |          +--ro fec-prefix?      cml-data-types:cml_ipv4_addr_prefix_t
  | |          +--ro vrf-name?        string
  | |          +--ro ftn-nexthop?     inet:ipv6-address
  | |          +--ro tunnel-policy?   string
  | |          +--ro ftn-color?       uint32
  | +--ro manager-entries {feature-list:HAVE_SRV6}?
  |    +--ro state
  |       +--ro protocol-state?                        ipi-sr-types:srv6_protocol_state_t
  |       +--ro srv6-locator-name?                     string
  |       +--ro platform-capabilities-end-function*    string
  |       +--ro platform-capabilities-ingress-function*    string
  |       +--ro platform-capabilities-ingress-sr-policy*   string
   +--rw debug {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
      +--rw config
      | +--rw options?   ipi-sr-types:sr_te_debug_t
      +--ro state
         +--ro options?                ipi-sr-types:sr_te_debug_t
         +--ro terminal-debug-status?   ipi-sr-types:sr_te_debug_t

rpcs:
  +---x sr-policy-terminal-debug-all-on {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6_OR_HAVE_SR_MPLS}?
  +---x sr-policy-terminal-debug-on {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6_OR_HAVE_SR_MPLS}?
  | +---w input
  |    +---w terminal-debug-options    ipi-sr-types:sr_te_debug_t
  +---x sr-policy-terminal-debug-off {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6_OR_HAVE_SR_MPLS}?
     +---w input
        +---w terminal-debug-options    ipi-sr-types:sr_te_debug_t

notifications:
  +---n sr-policy-oper-state-down
  | +--ro severity?     cml-data-types:cml_notif_severity_t
  | +--ro eventClass?   cml-data-types:cml_notif_class_t
  | +--ro name?         string
  | +--ro oper-state?   ipi-sr-types:srte_policy_oper_state_t
  +---n sr-policy-oper-state-up
```


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```
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro name?         string
  |  +--ro oper-state?   ipi-sr-types:srte_policy_oper_state_t
  +---n sr-policy-cp-active
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro discriminator?     uint32
  |  +--ro protocol-origin?   ipi-sr-types:srte_protocol_origin_type_type_t
  |  +--ro originator?        string
  |  +--ro name?              string
  |  +--ro is-valid?          boolean
  +---n sr-policy-cp-inactive
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro discriminator?     uint32
  |  +--ro protocol-origin?   ipi-sr-types:srte_protocol_origin_type_type_t
  |  +--ro originator?        string
  |  +--ro name?              string
  |  +--ro is-valid?          boolean
  +---n sr-policy-binding-sid-unavailable-event {feature-list:HAVE_SR_POLICY}?
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro name?         string
     +--ro bsid-value?   uint32
```

ipi-service-map

```
 +--rw service-map {feature-list:HAVE_SERVICE_MAPPING}?
    +--rw tunnel-policies
       +--rw tunnel-policy* [name]
          +--rw name      -> ../config/name
          +--rw config
          |  +--rw name?             string
          |  +--rw color-code*       uint32
```

```
        |  +--rw selection-mode?   ipi-service-map-types:tunnel_selection_mode_t
        |  +--rw tunnel-type?      ipi-service-map-types:tunnel_selection_type_t {feature-
list:HAVE_SRV6_OR_HAVE_SR_MPLS_OR_HAVE_MPLS}?
        +--ro state
           +--ro name?             string
           +--ro color-code*       uint32
           +--ro selection-mode?   ipi-service-map-types:tunnel_selection_mode_t
           +--ro tunnel-type?      ipi-service-map-types:tunnel_selection_type_t {feature-
list:HAVE_SRV6_OR_HAVE_SR_MPLS_OR_HAVE_MPLS}?
```

ipi-service-tracking

```
 +--rw services-tracking
    +--ro service-tracking* [service-type]
       +--ro service-type    -> ../state/service-type
       +--ro state
          +--ro service-type?               ipi-service-tracking-types:service_tracking_service_type_t
          +--ro operational-status-check?   ipi-service-tracking-types:cml_service_tracking_status_check_t
          +--ro status?                     ipi-service-tracking-types:cml_service_tracking_status_t

 rpcs:
   +---x start-service-tracking {feature-list:HAVE_ALL_PHOTONICS_CUSTOM}?
      +---w input
         +---w service-type                ipi-service-tracking-types:service_tracking_service_type_t
         +---w operational-status-check    ipi-service-tracking-types:cml_service_tracking_status_check_t
         +---w service-timeout             uint16

 notifications:
   +---n service-tracking-status
      +--ro severity?                   cml-data-types:cml_notif_severity_t
      +--ro eventClass?                 cml-data-types:cml_notif_class_t
      +--ro service-type?               ipi-service-tracking-types:service_tracking_service_type_t
      +--ro operational-status-check?   ipi-service-tracking-types:cml_service_tracking_status_check_t
      +--ro status?                     ipi-service-tracking-types:cml_service_tracking_status_t
```


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ipi-sflow-interface

```
augment /ipi-sflow:sampling/ipi-sflow:sflow:
  +--rw interfaces
    +--rw interface* [name]
      +--rw name         -> ../config/name
      +--rw config
      |  +--rw name?                  -> /ipi-interface:interfaces/interface/name
      |  +--rw enabled?                empty
      |  +--rw polling-interval?       uint8
      |  +--rw disable-collector-id*   uint8
      +--ro state
      |  +--ro name?                  -> /ipi-interface:interfaces/interface/name
      |  +--ro enabled?                empty
      |  +--ro polling-interval?       uint8
      |  +--ro disable-collector-id*   uint8
      |  +--ro polling-count?          yang:counter32
      +--rw samplings
        +--rw sampling* [sampling-direction]
          +--rw sampling-direction    -> ../config/sampling-direction
          +--rw config
          |  +--rw sampling-direction?   ipi-sflow-types:sflow_sampling_direction_t
          |  +--rw rate?                 uint32
          |  +--rw max-header-size?      uint16
          |  +--rw disabled?              empty
          +--ro state
            +--ro sampling-direction?     ipi-sflow-types:sflow_sampling_direction_t
            +--ro rate?                   uint32
            +--ro max-header-size?        uint16
            +--ro disabled?               empty
            +--ro sampling-status?        ipi-sflow-types:sflow_egress_ingress_t
            +--ro sampled-packet-count?   yang:counter32

rpcs:
  +---x sflow-clear-statistics {feature-list:HAVE_SFLOW}?
```

```
  |  +---w input
  |     +---w interface    string
  +---x clear-dynamic-load-balance-monitor-events {feature-list:HAVE_SFLOW}?
```

ipi-sflow-ipfix

```
 +--rw ipfix
    +--rw ip-flow-exporters
    |  +--rw ip-flow-exporter* [exporter-name]
    |     +--rw exporter-name    -> ../config/exporter-name
    |     +--rw config
    |     |  +--rw exporter-name?              string
    |     |  +--rw source-if?                  -> /ipi-interface:interfaces/interface/name
    |     |  +--rw collector-ip?               inet:ipv4-address
    |     |  +--rw collector-port?             inet:port-number
    |     |  +--rw collector-vrf?              -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name {feature-list:HAVE_VRF}?
    |     |  +--rw template-id?                uint32
    |     |  +--rw template-refresh-interval?  uint32
    |     |  +--rw samples-per-message?        ipi-sflow-types:sflow_samples_per_message_t
    |     +--ro state
    |        +--ro exporter-name?              string
    |        +--ro source-if?                  -> /ipi-interface:interfaces/interface/name
    |        +--ro collector-ip?               inet:ipv4-address
    |        +--ro collector-port?             inet:port-number
    |        +--ro collector-vrf?              -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name {feature-list:HAVE_VRF}?
    |        +--ro template-id?                uint32
    |        +--ro template-refresh-interval?  uint32
    |        +--ro samples-per-message?        ipi-sflow-types:sflow_samples_per_message_t
    +--rw ip-flow-monitors
    |  +--rw ip-flow-monitor* [monitor-name]
    |     +--rw monitor-name    -> ../config/monitor-name
    |     +--rw config
    |     |  +--rw monitor-name?           string
    |     |  +--rw flow-exporter?          -> /ipfix/ip-flow-exporters/ip-flow-exporter/exporter-name
```


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```
|    | +--rw sampling-rate?          uint32
|    | +--rw observation-domain-id?   uint32
|    +--ro state
|      +--ro monitor-name?           string
|      +--ro flow-exporter?          -> /ipfix/ip-flow-exporters/ip-flow-exporter/exporter-name
|      +--ro sampling-rate?          uint32
|      +--ro observation-domain-id?   uint32
+--rw interfaces
  +--rw interface* [interface-name]
    +--rw interface-name    -> ../config/interface-name
    +--rw config
    | +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
    | +--rw flow-monitor?     -> /ipfix/ip-flow-monitors/ip-flow-monitor/config/monitor-name
    +--ro state
      +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
      +--ro flow-monitor?     -> /ipfix/ip-flow-monitors/ip-flow-monitor/config/monitor-name
```

ipi-sflow

```
+--rw sampling
  +--rw sflow
    +--rw config!
    | +--rw enabled           empty
    | +--rw source-address?   inet:ipv4-address
    +--ro state
    | +--ro enabled             empty
    | +--ro source-address?     inet:ipv4-address
    | +--ro sflow-version?      string
    | +--ro datagram-version?   uint8
    +--rw collectors
    | +--rw collector* [address port collector-id]
    |    +--rw address         -> ../config/address
    |    +--rw port            -> ../config/port
    |    +--rw collector-id    -> ../config/collector-id
    |    +--rw config
```

```
      |     | +--rw address?             inet:ipv4-address
      |     | +--rw port?                inet:port-number
      |     | +--rw receiver-timeout?    uint32
      |     | +--rw max-datagram-size?   uint16
      |     | +--rw collector-id?        uint8
      |     | +--rw vrf-name             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
      |     +--ro state
      |       +--ro address?             inet:ipv4-address
      |       +--ro port?                inet:port-number
      |       +--ro receiver-timeout?    uint32
      |       +--ro max-datagram-size?   uint16
      |       +--ro collector-id?        uint8
      |       +--ro vrf-name             -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
      +--rw logging {feature-list:HAVE_CUSTOM1_ACL_OR_HAVE_COPP_FILTER}?
      | +--rw config
      | | +--rw max-entries?   uint16
      | +--ro state
      |   +--ro max-entries?   uint16
      +--rw debug
      | +--rw config
      | | +--rw options?   ipi-sflow-types:sflow_debug_t
      | +--ro state
      |   +--ro options?                ipi-sflow-types:sflow_debug_t
      |   +--ro terminal-debug-status?   ipi-sflow-types:sflow_debug_t
      +--rw global
        +--rw config
        | +--rw polling-interval?   uint8
        | +--rw update-port-pvid?   empty
        +--ro state
        | +--ro polling-interval?   uint8
        | +--ro update-port-pvid?   empty
        +--rw samplings
          +--rw sampling* [sampling-direction]
            +--rw sampling-direction    -> ../config/sampling-direction
            +--rw config
```


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```
          |  +--rw sampling-direction?   ipi-sflow-types:sflow_sampling_direction_t
          |  +--rw rate?                 uint32
          |  +--rw max-header-size?      uint16
          +--ro state
             +--ro sampling-direction?   ipi-sflow-types:sflow_sampling_direction_t
             +--ro rate?                 uint32
             +--ro max-header-size?      uint16

  rpcs:
    +---x sflow-clear-access-list-log-cache {feature-list:HAVE_SFLOW,feature-
list:HAVE_CUSTOM1_ACL_OR_HAVE_COPP_FILTER}?
    +---x sflow-terminal-debug-on {feature-list:HAVE_SFLOW}?
    |  +---w input
    |     +---w terminal-debug-options    ipi-sflow-types:sflow_debug_t
    +---x sflow-terminal-debug-off {feature-list:HAVE_SFLOW}?
       +---w input
          +---w terminal-debug-options    ipi-sflow-types:sflow_debug_t

  notifications:
    +---n sflow-receiver-timeout-alarm-message
       +--ro severity?     cml-data-types:cml_notif_severity_t
       +--ro eventClass?   cml-data-types:cml_notif_class_t
       +--ro message?      string
```

ipi-snmp-server-extended

```
  +--rw snmp-dir
     +--rw config
     |  +--rw include-directive?   empty
     +--ro state
        +--ro include-directive?   empty

  augment /ipi-snmp:snmp/ipi-snmp-server:servers:
    +--rw debug {feature-list:HAVE_SNMP_AGENT}?
       +--rw config
```

```
    |  +--rw enable?   empty
    +--ro state
       +--ro enable?                 empty
       +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
  +--rw snmp-views {feature-list:HAVE_SNMP_AGENT}?
     +--rw snmp-view* [view-name] {feature-list:HAVE_SNMP_AGENT}?
        +--rw view-name    -> ../config/view-name
        +--rw config
        |  +--rw view-name?   string
        +--ro state
        |  +--ro view-name?   string
        +--rw oid-trees
           +--rw oid-tree* [oid] {feature-list:HAVE_SNMP_AGENT}?
              +--rw oid       -> ../config/oid
              +--rw config!
              |  +--rw oid?           string
              |  +--rw filter-type    ipi-snmp-server-extended-types:snmp_server_oid_tree_t
              +--ro state
                 +--ro oid?           string
                 +--ro filter-type    ipi-snmp-server-extended-types:snmp_server_oid_tree_t
augment /ipi-snmp:snmp:
  +--rw engine-id {feature-list:HAVE_SNMP_V3,feature-list:HAVE_SNMP_AGENT}?
     +--rw config
     |  +--rw engine-id?   string
     +--ro state
        +--ro engine-id?   string
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
  +--rw smux-port {feature-list:HAVE_SNMP_AGENT}?
     +--rw config
     |  +--rw smux-port-enable?   empty
     +--ro state
        +--ro smux-port-enable?   empty
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
  +--rw hosts {feature-list:HAVE_SNMP_AGENT}?
     +--rw host* [host-vrf-name host-name] {feature-list:HAVE_SNMP_AGENT}?
```


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```
        +--rw host-vrf-name    -> ../config/host-vrf-name
        +--rw host-name        -> ../config/host-name
        +--rw config
        |  +--rw host-vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
        |  +--rw host-name?               string
        |  +--rw snmp-version?            ipi-snmp-server-extended-types:snmp_server_version_t
        |  +--rw notification-type?       ipi-snmp-server-extended-types:snmp_server_notification_t
        |  +--rw udp-port?                uint32
        |  +--rw (host-option)?
        |     +--:(use-community)
        |     |  +--rw community?         -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/communities/community/
community-name
        |     +--:(use-snmpv3-user)
        |     |  +--rw snmpv3-auth-type?   ipi-snmp-server-extended-types:snmp_server_version3_auth_type_t
        |     |  +--rw snmpv3-user?        -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/users/user/config/user-name
        |     +--:(use-host-user)
        |        +--rw host-user?          string
        +--ro state
           +--ro host-vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
           +--ro host-name?               string
           +--ro snmp-version?            ipi-snmp-server-extended-types:snmp_server_version_t
           +--ro notification-type?       ipi-snmp-server-extended-types:snmp_server_notification_t
           +--ro udp-port?                uint32
           +--ro (host-option)?
              +--:(use-community)
              |  +--ro community?         -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/communities/community/
community-name
              +--:(use-snmpv3-user)
              |  +--ro snmpv3-auth-type?   ipi-snmp-server-extended-types:snmp_server_version3_auth_type_t
              |  +--ro snmpv3-user?        -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/users/user/config/user-name
              +--:(use-host-user)
                 +--ro host-user?          string
  augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
    +--rw users {feature-list:HAVE_SNMP_AGENT}?
      +--rw user* [user-name] {feature-list:HAVE_SNMP_AGENT,feature-list:HAVE_SNMP_V3}?
        +--rw user-name    -> ../config/user-name
```

```
        +--rw config
        |  +--rw user-name?               string
        |  +--rw user-type?               ipi-snmp-server-extended-types:snmp_server_group_name_t
        |  +--rw user-group?              string
        |  +--rw encryption-type?         ipi-snmp-server-extended-types:snmp_server_key_type_t
        |  +--rw authentication-type?     ipi-snmp-server-extended-types:snmp_server_auth_t
        |  +--rw authentication-password?   string
        |  +--rw privilege-type?          ipi-snmp-server-extended-types:snmp_server_priv_t
        |  +--rw privilege-password?        string
        +--ro state
           +--ro user-name?               string
           +--ro user-type?               ipi-snmp-server-extended-types:snmp_server_group_name_t
           +--ro user-group?              string
           +--ro encryption-type?         ipi-snmp-server-extended-types:snmp_server_key_type_t
           +--ro authentication-type?     ipi-snmp-server-extended-types:snmp_server_auth_t
           +--ro authentication-password?   string
           +--ro privilege-type?          ipi-snmp-server-extended-types:snmp_server_priv_t
           +--ro privilege-password?        string
  augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
    +--rw contexts {feature-list:HAVE_SNMP_AGENT}?
       +--rw context* [context-name]
          +--rw context-name    -> ../config/context-name
          +--rw config
          |  +--rw context-name?   string
          +--ro state
             +--ro context-name?   string
  augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
    +--rw communities {feature-list:HAVE_SNMP_AGENT}?
       +--rw community* [community-name] {feature-list:HAVE_SNMP_AGENT}?
          +--rw community-name              -> ../config/community-name
          +--rw config
          |  +--rw community-name?          string
          |  +--rw acl-name?                -> /ipi-acl:acl/standard-acl-sets/standard-acl-set/name
          |  +--rw community-view-name?     -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/snmp-views/snmp-view/
view-name
          |  +--rw version?                 ipi-snmp-server-extended-types:snmp_server_view_version_t
          |  +--rw access?                  ipi-snmp-server-extended-types:snmp_server_access_t
```


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```
      |  +--rw (community-option)?
      |     +--:(use-group)
      |     |  +--rw snmp-group?          ipi-snmp-server-extended-types:snmp_server_group_t
      |     +--:(use-access)
      |        +--rw access-privileges?   ipi-snmp-server-extended-types:snmp_server_access_t
      +--ro state
      |  +--ro community-name?            string
      |  +--ro acl-name?                  -> /ipi-acl:acl/standard-acl-sets/standard-acl-set/name
      |  +--ro community-view-name?       -> /ipi-snmp:snmp/ipi-snmp-server:servers/server/snmp-views/snmp-view/
view-name
      |  +--ro version?                   ipi-snmp-server-extended-types:snmp_server_view_version_t
      |  +--ro access?                    ipi-snmp-server-extended-types:snmp_server_access_t
      |  +--ro (community-option)?
      |     +--:(use-group)
      |     |  +--ro snmp-group?          ipi-snmp-server-extended-types:snmp_server_group_t
      |     +--:(use-access)
      |        +--ro access-privileges?   ipi-snmp-server-extended-types:snmp_server_access_t
      +--rw community-context-mapping
         +--rw config
         |  +--rw community-context?   string
         |  +--rw community-user?      string
         +--ro state
            +--ro community-context?   string
            +--ro community-user?      string
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
  +--rw server-groups {feature-list:HAVE_SNMP_AGENT}?
     +--rw server-group* [group-name] {feature-list:HAVE_SNMP_AGENT}?
        +--rw group-name    -> ../config/group-name
        +--rw config
        |  +--rw group-name?              string
        |  +--rw group-version?           ipi-snmp-server-extended-types:snmp_server_version_t
        |  +--rw snmpv3-group-auth-type?   ipi-snmp-server-extended-types:snmp_v3_server_group_auth_type_t
        |  +--rw context*                 ipi-snmp-server-extended-types:snmp_server_context_name_t
        +--ro state
           +--ro group-name?              string
           +--ro group-version?           ipi-snmp-server-extended-types:snmp_server_version_t
           +--ro snmpv3-group-auth-type?   ipi-snmp-server-extended-types:snmp_v3_server_group_auth_type_t
```

```
        +--ro context*                ipi-snmp-server-extended-types:snmp_server_context_name_t
 augment /ipi-snmp:snmp:
   +--ro statistics {feature-list:HAVE_SNMP_AGENT}?
     +--ro state
       +--ro engine-id?   cml-data-types:cml_line_t
 augment /ipi-snmp:snmp:
   +--ro default-global-values {feature-list:HAVE_SNMP_AGENT}?
     +--ro state
       +--ro system-default-contact?    ipi-snmp-server-extended-types:cml_line_without_pattern_t {feature-
list:HAVE_SNMP_AGENT}?
       +--ro system-default-location?   ipi-snmp-server-extended-types:cml_line_without_pattern_t {feature-
list:HAVE_SNMP_AGENT}?

 rpcs:
   +---x snmp-server-terminal-debug-on {feature-list:HAVE_HOSTPD}?
   +---x snmp-server-terminal-debug-off {feature-list:HAVE_HOSTPD}?
```

ipi-snmp-server

```
 +--rw custom
    +--rw config
    |  +--rw ent-ipi-iftable?   empty {feature-list:HAVE_SNMP_AGENT}?
    +--ro state
       +--ro ent-ipi-iftable?   empty {feature-list:HAVE_SNMP_AGENT}?

 augment /ipi-snmp:snmp:
   +--rw servers {feature-list:HAVE_SNMP_AGENT}?
     +--rw server* [vrf-name]
     |  +--rw vrf-name    -> ../config/vrf-name
     |  +--rw config!
     |  |  +--rw vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
     |  |  +--rw enabled     empty
     |  +--ro state
     |  |  +--ro vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
     |  |  +--ro enabled     empty
```


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```
|  +--rw global
|     +--rw config
|     |  +--rw system-contact?        cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
|     |  +--rw system-location?       cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
|     |  +--rw tcp-session-enabled?   empty {feature-list:HAVE_SNMP_AGENT}?
|     +--ro state
|        +--ro system-contact?        cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
|        +--ro system-location?       cml-data-types:cml_line_t {feature-list:HAVE_SNMP_AGENT}?
|        +--ro tcp-session-enabled?   empty {feature-list:HAVE_SNMP_AGENT}?
 +--rw default-instance
    +--rw config
    |  +--rw disable-default-instance?   empty
    +--ro state
       +--ro disable-default-instance?   empty
```

ipi-snmp

```
+--rw snmp {feature-list:HAVE_SNMP_AGENT}?
   +--rw server-traps
      +--rw config
      |  +--rw enable-traps?             ipi-snmp-types:snmp_trap_protocols
      |  +--rw enable-link-down-trap?    boolean
      |  +--rw enable-link-up-trap?      boolean
      |  +--rw include-interface-name?   empty
      +--ro state
      |  +--ro enable-traps?             ipi-snmp-types:snmp_trap_protocols
      |  +--ro enable-link-down-trap?    boolean
      |  +--ro enable-link-up-trap?      boolean
      |  +--ro include-interface-name?   empty
      +--rw trap-cache
         +--rw config!
         |  +--rw enable-trap-cache    empty {feature-list:HAVE_SNMP_AGENT}?
         |  +--rw timeout?             int8
         |  +--rw disable-ping?        empty
         |  +--rw max-count?           int16
```

```
        +--ro state
           +--ro enable-trap-cache    empty {feature-list:HAVE_SNMP_AGENT}?
           +--ro timeout?             int8
           +--ro disable-ping?        empty
           +--ro max-count?           int16

 rpcs:
  +---x snmp-agentx-enable-terminal-debugging {feature-list:HAVE_AGENTX}?
  |  +---w input
  |     +---w debug    ipi-snmp-types:snmp_agentx_debug_type_t
  +---x snmp-agentx-disable-terminal-debugging {feature-list:HAVE_AGENTX}?
     +---w input
        +---w debug    ipi-snmp-types:snmp_agentx_debug_type_t
```

ipi-source-interface

```
 +--rw source-interface {feature-list:HAVE_HOSTPD}?
    +--rw address-family-ipv4
    |  +--rw source-nat-mappings
    |     +--rw source-nat-mapping* [interface-name protocol-type port-number vrf-name]
    |        +--rw interface-name    -> ../config/interface-name
    |        +--rw protocol-type     -> ../config/protocol-type
    |        +--rw port-number       -> ../config/port-number
    |        +--rw vrf-name          -> ../config/vrf-name
    |        +--rw config
    |        |  +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
    |        |  +--rw protocol-type?    ipi-source-interface-types:src_intf_proto_types_t
    |        |  +--rw port-number?      ipi-source-interface-types:src_intf_port_number_t
    |        |  +--rw vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    |        +--ro state
    |           +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
    |           +--ro protocol-type?    ipi-source-interface-types:src_intf_proto_types_t
    |           +--ro port-number?      ipi-source-interface-types:src_intf_port_number_t
```


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```
    |          +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    |          +--ro address?          inet:ip-address
    |          +--ro status?           ipi-source-interface-types:src_intf_status_t
    +--rw address-family-ipv6 {feature-list:HAVE_IPV6}?
      +--rw source-nat-mappings
        +--rw source-nat-mapping* [interface-name protocol-type port-number vrf-name]
          +--rw interface-name    -> ../config/interface-name
          +--rw protocol-type     -> ../config/protocol-type
          +--rw port-number       -> ../config/port-number
          +--rw vrf-name          -> ../config/vrf-name
          +--rw config
          |  +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
          |  +--rw protocol-type?    ipi-source-interface-types:src_intf_proto_types_t
          |  +--rw port-number?      ipi-source-interface-types:src_intf_port_number_t
          |  +--rw vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
          +--ro state
            +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
            +--ro protocol-type?    ipi-source-interface-types:src_intf_proto_types_t
            +--ro port-number?      ipi-source-interface-types:src_intf_port_number_t
            +--ro vrf-name?         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
            +--ro address?          inet:ip-address
            +--ro status?           ipi-source-interface-types:src_intf_status_t
```

ipi-ssh

```
  +--rw ssh-server
    +--rw debug
    |  +--rw config
    |  |  +--rw enable?   empty
    |  +--ro state
    |     +--ro enable?                empty
```

```
|    +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
+--rw vrfs
| +--rw vrf* [vrf-name]
|    +--rw vrf-name               -> ../config/vrf-name
|    +--rw config
|    | +--rw vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|    | +--rw enable?              empty {feature-list:HAVE_SSH_SERVER}?
|    | +--rw port?                uint32 {feature-list:HAVE_SSH_SERVER}?
|    | +--rw session-limit?       uint8 {feature-list:HAVE_SSH_SERVER}?
|    | +--rw max-login-attempts?   uint8 {feature-list:HAVE_SSH_SERVER}?
|    | +--rw default-algorithm?    empty
|    +--ro state
|    | +--ro vrf-name?            -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|    | +--ro enable?              empty {feature-list:HAVE_SSH_SERVER}?
|    | +--ro port?                uint32 {feature-list:HAVE_SSH_SERVER}?
|    | +--ro session-limit?       uint8 {feature-list:HAVE_SSH_SERVER}?
|    | +--ro max-login-attempts?   uint8 {feature-list:HAVE_SSH_SERVER}?
|    | +--ro default-algorithm?    empty
|    +--rw encryption-algorithms {feature-list:HAVE_SSH_SERVER}?
|    | +--rw config
|    | | +--rw aes128-ctr?         empty
|    | | +--rw aes192-ctr?         empty
|    | | +--rw aes256-ctr?         empty
|    | | +--rw aes128-cbc?         empty
|    | | +--rw aes192-cbc?         empty
|    | | +--rw aes256-cbc?         empty
|    | | +--rw triple-des-cbc?     empty
|    | | +--rw aes128-gcm?         empty
|    | | +--rw aes256-gcm?         empty
|    | | +--rw chacha20-poly1305?   empty
|    | +--ro state
|    |    +--ro aes128-ctr?         empty
|    |    +--ro aes192-ctr?         empty
|    |    +--ro aes256-ctr?         empty
|    |    +--ro aes128-cbc?         empty
|    |    +--ro aes192-cbc?         empty
```


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```
|    |    +--ro aes256-cbc?          empty
|    |    +--ro triple-des-cbc?      empty
|    |    +--ro aes128-gcm?          empty
|    |    +--ro aes256-gcm?          empty
|    |    +--ro chacha20-poly1305?   empty
|    +--rw kex-algorithms {feature-list:HAVE_SSH_SERVER}?
|    |  +--rw config
|    |  |  +--rw diffie-hellman-group1-sha1?             empty
|    |  |  +--rw diffie-hellman-group14-sha1?            empty
|    |  |  +--rw diffie-hellman-group14-sha256?          empty
|    |  |  +--rw diffie-hellman-group16-sha512?          empty
|    |  |  +--rw diffie-hellman-group18-sha512?          empty
|    |  |  +--rw diffie-hellman-group-exchange-sha1?     empty
|    |  |  +--rw diffie-hellman-group-exchange-sha256?   empty
|    |  |  +--rw ecdh-sha2-nistp256?                     empty
|    |  |  +--rw ecdh-sha2-nistp384?                     empty
|    |  |  +--rw ecdh-sha2-nistp521?                     empty
|    |  |  +--rw curve25519-sha256?                      empty
|    |  |  +--rw curve25519-sha256-libssh-org?           empty
|    |  |  +--rw sntrup761x25519-sha512?                 empty
|    |  |  +--rw sntrup761x25519-sha512-openssh?         empty
|    |  +--ro state
|    |    +--ro diffie-hellman-group1-sha1?             empty
|    |    +--ro diffie-hellman-group14-sha1?            empty
|    |    +--ro diffie-hellman-group14-sha256?          empty
|    |    +--ro diffie-hellman-group16-sha512?          empty
|    |    +--ro diffie-hellman-group18-sha512?          empty
|    |    +--ro diffie-hellman-group-exchange-sha1?     empty
|    |    +--ro diffie-hellman-group-exchange-sha256?   empty
|    |    +--ro ecdh-sha2-nistp256?                     empty
|    |    +--ro ecdh-sha2-nistp384?                     empty
|    |    +--ro ecdh-sha2-nistp521?                     empty
|    |    +--ro curve25519-sha256?                      empty
|    |    +--ro curve25519-sha256-libssh-org?           empty
|    |    +--ro sntrup761x25519-sha512?                 empty
|    |    +--ro sntrup761x25519-sha512-openssh?         empty
```

```
|    +--rw mac-algorithms {feature-list:HAVE_SSH_SERVER}?
|    |  +--rw config
|    |  |  +--rw hmac-sha1?          empty
|    |  |  +--rw hmac-sha1-96?       empty
|    |  |  +--rw hmac-sha2-256?      empty
|    |  |  +--rw hmac-sha2-512?      empty
|    |  |  +--rw hmac-md5?           empty
|    |  |  +--rw hmac-md5-96?        empty
|    |  |  +--rw umac-64?            empty
|    |  |  +--rw umac-128?           empty
|    |  |  +--rw hmac-sha1-etm?      empty
|    |  |  +--rw hmac-sha1-96-etm?   empty
|    |  |  +--rw hmac-sha2-256-etm?  empty
|    |  |  +--rw hmac-sha2-512-etm?  empty
|    |  |  +--rw hmac-md5-etm?       empty
|    |  |  +--rw hmac-md5-96-etm?    empty
|    |  |  +--rw umac-64-etm?        empty
|    |  |  +--rw umac-128-etm?       empty
|    |  +--ro state
|    |     +--ro hmac-sha1?          empty
|    |     +--ro hmac-sha1-96?       empty
|    |     +--ro hmac-sha2-256?      empty
|    |     +--ro hmac-sha2-512?      empty
|    |     +--ro hmac-md5?           empty
|    |     +--ro hmac-md5-96?        empty
|    |     +--ro umac-64?            empty
|    |     +--ro umac-128?           empty
|    |     +--ro hmac-sha1-etm?      empty
|    |     +--ro hmac-sha1-96-etm?   empty
|    |     +--ro hmac-sha2-256-etm?  empty
|    |     +--ro hmac-sha2-512-etm?  empty
|    |     +--ro hmac-md5-etm?       empty
|    |     +--ro hmac-md5-96-etm?    empty
|    |     +--ro umac-64-etm?        empty
|    |     +--ro umac-128-etm?       empty
|    +--rw host-key-algorithms {feature-list:HAVE_SSH_SERVER}?
```


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```
  |       +--rw config
  |       |  +--rw ssh-ed25519?   empty
  |       |  +--rw ssh-rsa?       empty
  |       +--ro state
  |          +--ro ssh-ed25519?   empty
  |          +--ro ssh-rsa?       empty
  +--rw default-instance {feature-list:HAVE_SSH_SERVER}?
     +--rw config
     |  +--rw disable-default-instance?   empty {feature-list:HAVE_SSH_SERVER}?
     +--ro state
        +--ro disable-default-instance?   empty {feature-list:HAVE_SSH_SERVER}?

augment /ipi-user-management:user-management/ipi-user-management:users/ipi-user-management:user:
  +--rw ssh-keys
     +--rw config
     |  +--rw public-key*   ipi-ssh-types:ssh_public_key_t
     +--ro state
        +--ro public-key*        ipi-ssh-types:ssh_public_key_t
        +--ro rsa-key?           ipi-ssh-types:ssh_public_key_t
        +--ro dsa-key?           ipi-ssh-types:ssh_public_key_t
        +--ro fingerprint-rsa?   ipi-ssh-types:ssh_public_key_t
        +--ro fingerprint-dsa?   ipi-ssh-types:ssh_public_key_t

rpcs:
  +---x ssh-terminal-debug-on {feature-list:HAVE_HOSTPD}?
  +---x ssh-terminal-debug-off {feature-list:HAVE_HOSTPD}?
  +---x ssh-clear-hosts {feature-list:HAVE_HOSTPD}?
  +---x ssh-generate-server-dsa-key {feature-list:HAVE_SSH_SERVER}?
  |  +---w input
  |     +---w vrf-name?   string
  |     +---w force?      boolean
  +---x ssh-generate-server-rsa-key {feature-list:HAVE_SSH_SERVER}?
  |  +---w input
  |     +---w length?     uint32
  |     +---w vrf-name?   string
  |     +---w force?      boolean
```

```
  +---x ssh-generate-server-ecdsa-key {feature-list:HAVE_SSH_SERVER}?
  |  +---w input
  |     +---w length?     ipi-ssh-types:ssh_ecdsa_key_len_t
  |     +---w vrf-name?   string
  |     +---w force?      boolean
  +---x ssh-generate-server-ed25519-key {feature-list:HAVE_SSH_SERVER}?
  |  +---w input
  |     +---w vrf-name?   string
  |     +---w force?      boolean
  +---x ssh-clear-server-keys {feature-list:HAVE_SSH_SERVER}?
  |  +---w input
  |     +---w type?       ipi-ssh-types:ssh_host_key_type_t
  |     +---w vrf-name?   string
  +---x ssh-generate-user-rsa-key {feature-list:HAVE_SSH_SERVER}?
  |  +---w input
  |     +---w user-name    string
  |     +---w length?      uint32
  |     +---w force?       boolean
  +---x ssh-generate-user-dsa-key {feature-list:HAVE_SSH_SERVER}?
  |  +---w input
  |     +---w user-name    string
  |     +---w force?       boolean
  +---x ssh-clear-user-keys {feature-list:HAVE_SSH_SERVER}?
     +---w input
        +---w user-name    string
```

ipi-streaming-telemetry

```
 +--rw telemetry-system
    +--rw global
    |  +--rw config
    |  |  +--rw config-maximum-subscribe-paths?   uint32
    |  |  +--rw config-minimum-sample-interval?   uint32
    |  +--ro state
    |     +--ro config-maximum-subscribe-paths?   uint32
```


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```
    |     +--ro config-minimum-sample-interval?   uint32
    |     +--ro maximum-subscribe-paths?          uint32
    |     +--ro minimum-sample-interval?          uint32
    +--rw vrfs {feature-list:HAVE_VRF}?
    |  +--rw vrf* [vrf-name]
    |     +--rw vrf-name              -> ../config/vrf-name
    |     +--rw config
    |     | +--rw vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    |     +--ro state
    |     | +--ro vrf-name?   -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_VRF}?
    |     +--rw streaming-telemetry
    |     |  +--rw config!
    |     | |  +--rw feature-enabled    empty
    |     | |  +--rw tls-port?          uint32
    |     | |  +--rw insecure-tls?      empty
    |     | |  +--rw non-tls-port?      uint32
    |     |  +--ro state
    |     | |  +--ro feature-enabled                empty
    |     | |  +--ro tls-port?                      uint32
    |     | |  +--ro insecure-tls?                  empty
    |     | |  +--ro non-tls-port?                  uint32
    |     | |  +--ro platform-type?                 ipi-streaming-telemetry-types:cml_telemetry_platform_type_t
    |     | |  +--ro default-retry-interval?        uint8
    |     | |  +--ro active-sensor-paths?           uint8
    |     | |  +--ro active-dial-in-sensor-paths?   uint8
    |     | |  +--ro active-dial-out-sensor-paths?   uint8
    |     |  +--rw retry
    |     |     +--rw config
    |     |     |  +--rw retry-interval?   uint32
    |     |     +--ro state
    |     |        +--ro retry-interval?   uint32
    |     +--rw subscriptions
    |     |  +--ro dynamic-subscriptions
    |     | |  +--ro dynamic-subscription* [id]
    |     | |     +--ro id              -> ../state/id
```

```
|    | |    +--ro state
|    | |    | +--ro id?                 uint64
|    | |    | +--ro client-address?     string
|    | |    | +--ro sample-interval?    uint64
|    | |    | +--ro stream-mode?        ipi-streaming-telemetry-types:cml_streaming_types_t
|    | |    | +--ro heartbeat-interval? uint64
|    | |    | +--ro stream-type?        ipi-streaming-telemetry-types:cml_stream_mode_types_t
|    | |    | +--ro encoding?           ipi-streaming-telemetry-types:cml_data_encode_t
|    | |    +--ro sensor-paths
|    | |      +--ro sensor-path* [path]
|    | |         +--ro path     -> ../state/path
|    | |         +--ro state
|    | |            +--ro path?   string
|    | +--rw persistent-subscriptions
|    |   +--rw persistent-subscription* [name]
|    |      +--rw name                -> ../config/name
|    |      +--rw config
|    |      | +--rw name?       string
|    |      | +--rw encoding?   ipi-streaming-telemetry-types:cml_data_encode_t
|    |      +--ro state
|    |      | +--ro name?               string
|    |      | +--ro encoding?           ipi-streaming-telemetry-types:cml_data_encode_t
|    |      | +--ro id?                 uint64
|    |      | +--ro subscription-status?   ipi-streaming-telemetry-types:cml_telemetry_status_t
|    |      | +--ro inactive-cause?        string
|    |      | +--ro protocol?           ipi-streaming-telemetry-types:cml_telemetry_protocol_t
|    |      +--rw sensor-profiles
|    |      | +--rw sensor-profile* [sensor-group]
|    |      |    +--rw sensor-group    -> ../config/sensor-group
|    |      |    +--rw config
|    |      |    | +--rw sensor-group?      -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id
|    |      |    | +--rw sample-interval    uint64
|    |      |    +--ro state
|    |      |       +--ro sensor-group?      -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id
|    |      |       +--ro sample-interval    uint64
|    |      +--rw destination-groups
```


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```
|    |          +--rw destination-group* [group-id]
|    |            +--rw group-id    -> ../config/group-id
|    |            +--rw config
|    |            |  +--rw group-id?   -> /telemetry-system/vrfs/vrf/destination-groups/destination-group/group-id
|    |            +--ro state
|    |              +--ro group-id?   -> /telemetry-system/vrfs/vrf/destination-groups/destination-group/group-id
|    +--rw sensor-groups
|    |  +--rw sensor-group* [sensor-group-id]
|    |    +--rw sensor-group-id    -> ../config/sensor-group-id
|    |    +--rw config
|    |    |  +--rw sensor-group-id?   string
|    |    +--ro state
|    |    |  +--ro sensor-group-id?   string
|    |    +--rw sensor-paths
|    |      +--rw sensor-path* [path]
|    |        +--rw path      -> ../config/path
|    |        +--rw config
|    |        |  +--rw path?   string
|    |        +--ro state
|    |          +--ro path?   string
|    +--rw destination-groups
|      +--rw destination-group* [group-id]
|        +--rw group-id        -> ../config/group-id
|        +--rw config
|        |  +--rw group-id?   string
|        +--ro state
|        |  +--ro group-id?   string
|        +--rw destinations
|          +--rw destination* [destination-address destination-port]
|            +--rw destination-address    -> ../config/destination-address
|            +--rw destination-port       -> ../config/destination-port
|            +--rw config
|            |  +--rw destination-address?   inet:ipv4-address
|            |  +--rw destination-port?      uint16
|            +--ro state
|              +--ro destination-address?   inet:ipv4-address
```

```
|                +--ro destination-port?      uint16
+--rw debug
| +--rw config!
| | +--rw gnmi-debug       empty
| | +--rw gnmi-severity?   ipi-streaming-telemetry-types:cml_gnmi_debug_severity_t
| +--ro state!
|   +--ro gnmi-debug       empty
|   +--ro gnmi-severity?   ipi-streaming-telemetry-types:cml_gnmi_debug_severity_t
+--rw cpu-monitoring
  +--rw config!
  | +--rw enable-cpu-limit      ipi-streaming-telemetry-types:cml_telemetry_cpu_monitoring_t
  | +--rw suppress-threshold?   uint16
  +--ro state
  | +--ro enable-cpu-limit      ipi-streaming-telemetry-types:cml_telemetry_cpu_monitoring_t
  | +--ro suppress-threshold?   uint16
  +--rw no-suppress-grps
    +--rw no-suppress-grp* [vrf-name sensor-group-id] {feature-list:HAVE_VRF}?
      +--rw vrf-name           -> ../config/vrf-name
      +--rw sensor-group-id    -> ../config/sensor-group-id
      +--rw config!
      | +--rw vrf-name?          -> /telemetry-system/vrfs/vrf/vrf-name {feature-list:HAVE_VRF}?
      | +--rw sensor-group-id?   -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id
      +--rw state!
        +--rw vrf-name?          -> /telemetry-system/vrfs/vrf/vrf-name {feature-list:HAVE_VRF}?
        +--rw sensor-group-id?   -> /telemetry-system/vrfs/vrf/sensor-groups/sensor-group/sensor-group-id
```

ipi-synce

```
+--rw synce {feature-list:HAVE_SYNCED}?
  +--rw globals
  | +--rw config!
  | | +--rw enable                 empty
  | | +--rw network-option?        ipi-synce-types:synce_sync_option_t
  | | +--rw clock-selection-mode?  ipi-synce-types:synce_clk_selection_mode_t
  | | +--rw dpll3-select-10mhz-in?  empty
```


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```
| | +--rw holdover-timer?          uint16
| +--ro state
|    +--ro enable                  empty
|    +--ro network-option?         ipi-synce-types:synce_sync_option_t
|    +--ro clock-selection-mode?   ipi-synce-types:synce_clk_selection_mode_t
|    +--ro dpll3-select-10mhz-in?  empty
|    +--ro holdover-timer?         uint16
|    +--ro equipment-clock?        string
|    +--ro locked-interface?       string
|    +--ro esmc-state?             ipi-synce-types:synce_esmc_state_t
|    +--ro is-source-selected?     ipi-synce-types:synce_is_src_selected_t
|    +--ro quality-level?          string
|    +--ro current-clock-state?    ipi-synce-types:synce_clock_state_t
|    +--ro dpll-clock-state?       ipi-synce-types:synce_clock_state_t
|    +--ro state-duration?         ipi-synce-types:synce_uptime_t
|    +--ro selected-clock-src-id?  uint32
+--rw interfaces
| +--rw interface* [name]
|    +--rw name      -> ../config/name
|    +--rw config!
|    | +--rw name?                 -> /ipi-interface:interfaces/interface/name
|    | +--rw enable                empty
|    | +--rw synchronous-mode?     ipi-synce-types:synce_mode_option_t
|    | +--rw input-source-priority?  uint8
|    | +--rw is-output-source?     boolean
|    | +--rw wait-to-restore-timer?  uint8
|    | +--rw vlan-id?              uint16
|    | +--rw hold-off-timer?       uint16
|    | +--rw quality-level?        string
|    | +--rw clock-source-id?      uint8
|    | +--rw auto-neg-mode?        ipi-synce-types:synce_autoneg_mode_t
|    +--ro state
|      +--ro name?                 -> /ipi-interface:interfaces/interface/name
|      +--ro enable                empty
|      +--ro synchronous-mode?     ipi-synce-types:synce_mode_option_t
|      +--ro input-source-priority?  uint8
```

```
|       +--ro is-output-source?              boolean
|       +--ro wait-to-restore-timer?         uint8
|       +--ro vlan-id?                       uint16
|       +--ro hold-off-timer?                uint16
|       +--ro quality-level?                 string
|       +--ro clock-source-id?               uint8
|       +--ro auto-neg-mode?                 ipi-synce-types:synce_autoneg_mode_t
|       +--ro esmc-state?                    ipi-synce-types:synce_esmc_state_t
|       +--ro is-source-selected?            ipi-synce-types:synce_is_src_selected_t
|       +--ro esmc-received?                 uint64
|       +--ro esmc-sent?                     uint64
|       +--ro quality-level-received-esmc?   string
|       +--ro operational-quality-level?     string
|       +--ro configured-quality-level?      string
|       +--ro interface-config-priority?     uint8
|       +--ro signal-fail?                   ipi-synce-types:synce_is_sf_t
|       +--ro external-command?              ipi-synce-types:synce_external_cmds_t
|       +--ro wtr-timer-status?              ipi-synce-types:synce_is_timer_running_t
|       +--ro hold-off-timer-status?         ipi-synce-types:synce_is_timer_running_t
|       +--ro link-state?                    ipi-synce-types:synce_link_state_t
+--rw external-interfaces
|  +--rw external-interface* [external-synce-interface]
|     +--rw external-synce-interface    -> ../config/external-synce-interface
|     +--rw config
|     |  +--rw external-synce-interface?   ipi-synce-types:synce_external_interface_t
|     |  +--rw synchronous-mode?           ipi-synce-types:synce_mode_option_t
|     |  +--rw input-source-priority?      uint8
|     |  +--rw wait-to-restore-timer?      uint8
|     |  +--rw hold-off-timer?             uint16
|     |  +--rw quality-level?              string
|     +--ro state
|        +--ro external-synce-interface?      ipi-synce-types:synce_external_interface_t
|        +--ro synchronous-mode?              ipi-synce-types:synce_mode_option_t
|        +--ro input-source-priority?         uint8
|        +--ro wait-to-restore-timer?         uint8
|        +--ro hold-off-timer?                uint16
```


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```
  |       +--ro quality-level?                string
  |       +--ro esmc-state?                   ipi-synce-types:synce_esmc_state_t
  |       +--ro is-source-selected?           ipi-synce-types:synce_is_src_selected_t
  |       +--ro esmc-received?                uint64
  |       +--ro esmc-sent?                    uint64
  |       +--ro quality-level-received-esmc?  string
  |       +--ro operational-quality-level?    string
  |       +--ro configured-quality-level?     string
  |       +--ro interface-config-priority?    uint8
  |       +--ro signal-fail?                  ipi-synce-types:synce_is_sf_t
  |       +--ro external-command?             ipi-synce-types:synce_external_cmds_t
  |       +--ro wtr-timer-status?             ipi-synce-types:synce_is_timer_running_t
  |       +--ro hold-off-timer-status?        ipi-synce-types:synce_is_timer_running_t
  |       +--ro link-state?                   ipi-synce-types:synce_link_state_t
   +--rw debug
      +--rw config
      |  +--rw options?   ipi-synce-types:synce_debug_t
      +--ro state
         +--ro options?                ipi-synce-types:synce_debug_t
         +--ro terminal-debug-status?  ipi-synce-types:synce_debug_t

rpcs:
  +---x clear-synce-stats {feature-list:HAVE_SYNCED}?
  |  +---w input
  |     +---w interface-name    string
  +---x synce-terminal-debug-on {feature-list:HAVE_SYNCED}?
  |  +---w input
  |     +---w debug-options    ipi-synce-types:synce_debug_t
  +---x synce-terminal-debug-off {feature-list:HAVE_SYNCED}?
     +---w input
        +---w debug-options    ipi-synce-types:synce_debug_t

notifications:
  +---n synce-clock-status {feature-list:HAVE_SYNCED}?
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
```

```
  |  +--ro message?      string
  +---n synce-clock-state-change-notify {feature-list:HAVE_SYNCED}?
  |  +--ro severity?              cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?            cml-data-types:cml_notif_class_t
  |  +--ro previous-clock-state?   ipi-synce-types:synce_clock_state_t
  |  +--ro current-clock-state?    ipi-synce-types:synce_clock_state_t
  +---n synce-clock-state-transition-locked-interface {feature-list:HAVE_SYNCED}?
     +--ro severity?              cml-data-types:cml_notif_severity_t
     +--ro eventClass?            cml-data-types:cml_notif_class_t
     +--ro previous-clock-state?   ipi-synce-types:synce_clock_state_t
     +--ro current-clock-state?    ipi-synce-types:synce_clock_state_t
     +--ro locked-interface?       string
```

ipi-sys-mgmt

```
rpcs:
  +---x sys-shutdown {feature-list:HAVE_PSERVD}?
     +---w input
        +---w save-config    boolean
```

ipi-sys-notifications

```
notifications:
  +---n lock-forcibly-released
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n config-sync-completion-status
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n config-change
  |  +--ro message?   string
```


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```
  +---n system-shutdown-or-reload
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n get-warning-notification
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro message?      string
```

ipi-sys-service-mgmt

```
+--rw system-backups
   +--rw system-backup
      +--rw config
      |  +--rw system-backup-content?   ipi-sys-service-mgmt-types:system_backup_content_type_t
      +--ro state
         +--ro system-backup-content?   ipi-sys-service-mgmt-types:system_backup_content_type_t
```

ipi-sys-update

```
+--rw system-update
   +--rw docker
   |  +--ro images
   |  |  +--ro image* [name]
   |  |     +--ro name     -> ../state/name
   |  |     +--ro state
   |  |        +--ro name?   string
   |  +--ro info
   |  |  +--ro state
   |  |     +--ro version?   string
   |  |     +--ro status?    string
   |  +--ro download-status
   |     +--ro state
```

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```
  |       +--ro inprogress?   boolean
  +--ro installers
  |  +--ro installer* [name]
  |     +--ro name     -> ../state/name
  |     +--ro state
  |        +--ro name?   string
  +--ro system-update-details
     +--ro state
        +--ro previous-version?         cml-data-types:cml_line_t
        +--ro current-version?          cml-data-types:cml_line_t
        +--ro last-upgraded-time?       cml-data-types:cml_line_t
        +--ro auto-rollback-end-time?   cml-data-types:cml_line_t

rpcs:
  +---x sys-update-install {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |     +---w installer-name          string
  |     +---w ignore-feature-check    boolean
  +---x sys-update-uninstall {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  +---x sys-update-get {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |     +---w source-interface    string
  |     +---w source-ip?          inet:ip-address
  |     +---w url                 string
  |     +---w known-hosts-add?    boolean
  +---x sys-update-delete {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |     +---w image-name    string
  +---x sys-update-cancel-download {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  +---x sys-container-install {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |     +---w type            ipi-sys-update-types:system_container_type_t
  |     +---w upgrade-type    ipi-sys-update-types:system_container_upgrade_t
  |     +---w file            string
  +---x sys-container-uninstall {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
```


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```
  |    +---w type          ipi-sys-update-types:system_container_type_t
  |    +---w un-install    boolean
  +---x sys-container-boot {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |    +---w type         ipi-sys-update-types:system_container_type_t
  |    +---w boot-type    ipi-sys-update-types:system_container_boot_t
  +---x sys-container-get {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |    +---w type               ipi-sys-update-types:system_container_type_t
  |    +---w url                string
  |    +---w source-interface    string
  +---x sys-container-remove {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |    +---w type    ipi-sys-update-types:system_container_type_t
  |    +---w file    string
  +---x sys-container-verify {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?
  |  +---w input
  |    +---w type         ipi-sys-update-types:system_container_type_t
  |    +---w image        string
  |    +---w signature    string
  +---x sys-container-cancel-download {feature-list:HAVE_PSERVD,feature-list:NOT_HAVE_TIBIT}?

notifications:
  +---n sys-update-installation-status
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n sys-update-download-status
  |  +--ro severity?     cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?   cml-data-types:cml_notif_class_t
  |  +--ro message?      string
  +---n sys-container-download-status
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro message?      string
```

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ipi-system

```
+--rw system-info
  +--rw config
  |  +--rw hostname?   string
  +--ro state
  |  +--ro hostname?                string
  |  +--ro software-version?        string
  |  +--ro software-build-number?   string {feature-list:BUILD_PRODUCT_VERSION,feature-list:BUILD_NUMBER}?
  |  +--ro system-uptime?           system_time_duration
  |  +--ro boot-time?               uint64
  |  +--ro current-datetime?        yang:date-and-time
  +--rw sysrq
  |  +--rw config
  |  |  +--rw disable?   boolean
  |  +--ro state
  |     +--ro disable?   boolean
  +--rw clock
     +--rw config
     |  +--rw timezone-name?   system_timezone_name_t
     +--ro state
        +--ro timezone-name?   system_timezone_name_t
```

ipi-tacacs

```
+--rw tacacs
  +--rw vrfs
  |  +--rw vrf* [vrf-name] {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA,feature-list:HAVE_TACACS_CLIENT}?
  |     +--rw vrf-name          -> ../config/vrf-name
  |     +--rw config
  |     |  +--rw vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
  |     |  +--rw feature-enable      empty
  |     |  +--rw timeout?            uint8
  |     |  +--rw key-type?           ipi-tacacs-types:tacacs_hostp_key_type_t
```


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```
|    | +--rw secret-key-string?   string
|    +--ro state
|    | +--ro vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|    | +--ro feature-enable      empty
|    | +--ro timeout?            uint8
|    | +--ro key-type?           ipi-tacacs-types:tacacs_hostp_key_type_t
|    | +--ro secret-key-string?   string
|    +--rw remote-servers
|      +--rw server* [host-address] {feature-list:HAVE_HOSTPD,feature-list:HAVE_AAA,feature-
list:HAVE_TACACS_CLIENT}?
|         +--rw host-address    -> ../config/host-address
|         +--rw config
|         | +--rw host-address?       cml-data-types:cml_hostname_t
|         | +--rw sequence-number     uint8
|         | +--rw port?               uint32
|         | +--rw timeout?            uint32
|         | +--rw key-type?           ipi-tacacs-types:tacacs_hostp_key_type_t
|         | +--rw secret-key-string?   string
|         +--ro state
|           +--ro host-address?                       cml-data-types:cml_hostname_t
|           +--ro sequence-number                     uint8
|           +--ro port?                               uint32
|           +--ro timeout?                            uint32
|           +--ro key-type?                           ipi-tacacs-types:tacacs_hostp_key_type_t
|           +--ro secret-key-string?                  string
|           +--ro last-successful-authentication-time?   yang:date-and-time
|           +--ro counters
|             +--ro successful-authentications?   yang:counter64
|             +--ro authentication-failures?      yang:counter64
|             +--ro connection-failures?          yang:counter64
+--rw debug
  +--rw config
  | +--rw enable?   empty
  +--ro state
    +--ro enable?                 empty
    +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
```

```
rpcs:
  +---x clear-all-tacacs-server-counters {feature-list:HAVE_HOSTPD}?
  |  +---w input
  |     +---w vrf-name    string
  +---x clear-tacacs-server-host-counters {feature-list:HAVE_HOSTPD}?
  |  +---w input
  |     +---w hostname    cml-data-types:cml_hostpname_t
  |     +---w vrf-name    string
  +---x tacacs-terminal-debug-on {feature-list:HAVE_HOSTPD}?
  +---x tacacs-terminal-debug-off {feature-list:HAVE_HOSTPD}?
```

ipi-telnet

```
+--rw telnet-server
   +--rw debug
   |  +--rw config
   |  |  +--rw enable?   empty
   |  +--ro state
   |     +--ro enable?                  empty
   |     +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
   +--rw vrfs
      +--rw vrf* [vrf-name]
         +--rw vrf-name    -> ../config/vrf-name
         +--rw config
         |  +--rw vrf-name?        -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
         |  +--rw enable?          empty
         |  +--rw port?            uint32 {feature-list:HAVE_TELNET_SERVER}?
         |  +--rw session-limit?   uint8 {feature-list:HAVE_TELNET_SERVER}?
         +--ro state
            +--ro vrf-name?        -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
            +--ro enable?          empty
            +--ro port?            uint32 {feature-list:HAVE_TELNET_SERVER}?
            +--ro session-limit?   uint8 {feature-list:HAVE_TELNET_SERVER}?

rpcs:
  +---x telnet-terminal-debug-on {feature-list:HAVE_HOSTPD}?
```


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```
  +---x telnet-terminal-debug-off {feature-list:HAVE_HOSTPD}?
```

ipi-tfo

```
 +--rw trigger-failover
   +--rw config
   |  +--rw admin-status?   cml-data-types:cml_enable_disable_t
   +--ro state
   |  +--ro admin-status?   cml-data-types:cml_enable_disable_t
   +--rw interfaces
   |  +--rw interface* [name]
   |     +--rw name          -> ../config/name
   |     +--rw config
   |     |  +--rw name?        -> /ipi-interface:interfaces/interface/name
   |     |  +--rw link-type?   ipi-tfo-types:tfo_fog_link_type_t
   |     +--ro state
   |     |  +--ro name?        -> /ipi-interface:interfaces/interface/name
   |     |  +--ro link-type?   ipi-tfo-types:tfo_fog_link_type_t
   |     +--rw tfo-groups
   |        +--rw tfo-group* [fog-id]
   |           +--rw fog-id    -> ../config/fog-id
   |           +--rw config
   |           |  +--rw fog-id?       uint32
   |           |  +--rw group-type    ipi-tfo-types:tfo_fog_group_type_t
   |           +--ro state
   |              +--ro fog-id?       uint32
   |              +--ro group-type    ipi-tfo-types:tfo_fog_group_type_t
   +--rw failover-groups
      +--rw failover-group* [group-id]
         +--rw group-id    -> ../config/group-id
         +--rw config
         |  +--rw group-id?                uint32
         |  +--rw admin-status             cml-data-types:cml_enable_disable_t
         |  +--rw failover-trigger-count?   uint32
         +--ro state
```

```
      |  +--ro group-id?                uint32
      |  +--ro admin-status             cml-data-types:cml_enable_disable_t
      |  +--ro failover-trigger-count?  uint32
      |  +--ro cpg-disable-status?      boolean
      |  +--ro mpg-disable-status?      boolean
      +--ro counters
         +--ro mpg-link-failure-count?  uint64
         +--ro mpg-link-recover-count?  uint64
         +--ro cpg-auto-disable-count?  uint64
         +--ro cpg-auto-enable-count?   uint64

rpcs:
  +---x tfo-clear-counters-all {feature-list:HAVE_TFO}?
  +---x tfo-clear-fog-counters {feature-list:HAVE_TFO}?
    +---w input
      +---w group-id    uint32
```

ipi-time-range

```
+--rw time-ranges
  +--rw time-range* [name]
    +--rw name                -> ../config/name
    +--rw config
    |  +--rw name?   string
    +--ro state
    |  +--ro name?   string
    +--rw start-time-options
    |  +--rw config
    |  |  +--rw (start-time)?
    |  |     +--:(absolute-start-time)
    |  |     |  +--rw absolute-start-time?   time_range_date_time_t
    |  |     +--:(relative-start-time)
    |  |        +--rw relative-start-time?   time_range_relative_time_t
    |  +--ro state
    |     +--ro (start-time)?
    |        +--:(absolute-start-time)
```


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```
|       | +--ro absolute-start-time?   time_range_date_time_t
|       +--:(relative-start-time)
|         +--ro relative-start-time?   time_range_relative_time_t
+--rw end-time-options
| +--rw config
| | +--rw (end-time)?
| |    +--:(absolute-end-time)
| |    | +--rw absolute-end-time?   time_range_date_time_t
| |    +--:(relative-end-time)
| |      +--rw relative-end-time?   string
| +--ro state
|   +--ro (end-time)?
|      +--:(absolute-end-time)
|      | +--ro absolute-end-time?   time_range_date_time_t
|      +--:(relative-end-time)
|        +--ro relative-end-time?   string
+--rw frequency-options
  +--rw config
  | +--rw frequency?   time_range_frequency_t
  +--ro state
    +--ro frequency?   time_range_frequency_t
```

ipi-twamp

```
+--rw twamp
  +--rw light
  | +--rw control
  | | +--rw config!
  | | | +--rw enable                 empty
  | | | +--rw administrative-state?   cml-data-types:cml_enable_disable_t
  | | +--ro state
  | | | +--ro enable                empty
  | | | +--ro administrative-state?   cml-data-types:cml_enable_disable_t
```

```
  | | +--rw test-sessions
  | |    +--rw test-session* [session-name vrf-name]
  | |       +--rw session-name    -> ../config/session-name
  | |       +--rw vrf-name        -> ../config/vrf-name
  | |       +--rw config
  | |       | +--rw session-name?           string
  | |       | +--rw sender-ip-address       ipi-twamp-types:twamp_hostname_t
  | |       | +--rw sender-udp-port         ipi-twamp-types:twamp_udp_port_t
  | |       | +--rw reflector-ip-address    ipi-twamp-types:twamp_hostname_t
  | |       | +--rw reflector-udp-port      ipi-twamp-types:twamp_udp_port_t
  | |       | +--rw dscp-value?             ipi-twamp-types:twamp_dscp_t
  | |       | +--rw vrf-name?               string
  | |       +--ro state
  | |         +--ro session-name?           string
  | |         +--ro sender-ip-address       ipi-twamp-types:twamp_hostname_t
  | |         +--ro sender-udp-port         ipi-twamp-types:twamp_udp_port_t
  | |         +--ro reflector-ip-address    ipi-twamp-types:twamp_hostname_t
  | |         +--ro reflector-udp-port      ipi-twamp-types:twamp_udp_port_t
  | |         +--ro dscp-value?             ipi-twamp-types:twamp_dscp_t
  | |         +--ro vrf-name?               string
  | |         +--ro start-time?             yang:date-and-time
  | |         +--ro elapsed-time?           uint32
  | |         +--ro statistics
  | |           +--ro packets-sent?               yang:counter64
  | |           +--ro packets-received?           yang:counter64
  | |           +--ro packet-loss?                decimal64
  | |           +--ro round-trip-delay
  | |           | +--ro minimum?   uint64
  | |           | +--ro maximum?   uint64
  | |           | +--ro average?   uint64
  | |           +--ro forward-delay
  | |           | +--ro minimum?   uint64
  | |           | +--ro maximum?   uint64
  | |           | +--ro average?   uint64
  | |           +--ro reverse-delay
  | |           | +--ro minimum?   uint64
```


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```
| |          | +--ro maximum?   uint64
| |          | +--ro average?   uint64
| |          +--ro round-trip-delay-variation
| |          | +--ro minimum?   uint64
| |          | +--ro maximum?   uint64
| |          | +--ro average?   uint64
| |          +--ro forward-delay-variation
| |          | +--ro minimum?   uint64
| |          | +--ro maximum?   uint64
| |          | +--ro average?   uint64
| |          +--ro reverse-delay-variation
| |            +--ro minimum?   uint64
| |            +--ro maximum?   uint64
| |            +--ro average?   uint64
| +--rw session-reflector
|    +--rw config!
|    | +--rw enable                empty
|    | +--rw administrative-state?   cml-data-types:cml_enable_disable_t
|    +--ro state
|    | +--ro enable                empty
|    | +--ro administrative-state?   cml-data-types:cml_enable_disable_t
|    +--rw sessions
|       +--rw session* [name vrf-name]
|          +--rw name       -> ../config/name
|          +--rw vrf-name    -> ../config/vrf-name
|          +--rw config
|          | +--rw name?                string
|          | +--rw reflector-ip-address    ipi-twamp-types:twamp_hostname_t
|          | +--rw reflector-udp-port?     ipi-twamp-types:twamp_udp_port_t
|          | +--rw sender-ip-address?      ipi-twamp-types:twamp_hostname_t
|          | +--rw sender-udp-port?        ipi-twamp-types:twamp_ref_src_udp_port_t
|          | +--rw vrf-name?             string
|          | +--rw upstream-intf?          string
|          +--ro state
|            +--ro name?                string
|            +--ro reflector-ip-address    ipi-twamp-types:twamp_hostname_t
```

```
   |            +--ro reflector-udp-port?     ipi-twamp-types:twamp_udp_port_t
   |            +--ro sender-ip-address?      ipi-twamp-types:twamp_hostname_t
   |            +--ro sender-udp-port?        ipi-twamp-types:twamp_ref_src_udp_port_t
   |            +--ro vrf-name?               string
   |            +--ro upstream-intf?          string
   +--rw debug
   | +--rw config
   | | +--rw options?   ipi-twamp-types:twamp_debug_t
   | +--ro state
   |   +--ro options?                ipi-twamp-types:twamp_debug_t
   |   +--ro terminal-debug-status?   ipi-twamp-types:twamp_debug_t
   +--rw server
   | +--rw config
   | | +--rw port?                          ipi-twamp-types:twamp_udp_port_t
   | | +--rw max-connection-duration?          uint8
   | | +--rw max-connections?                  uint8
   | | +--rw max-connections-per-client?       uint8
   | | +--rw maximum-sessions?                 uint16
   | | +--rw maximum-sessions-per-connection?   uint16
   | | +--rw inactivity-timeout?               uint8
   | | +--rw vrf-name*                         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
   | +--ro state
   | | +--ro port?                          ipi-twamp-types:twamp_udp_port_t
   | | +--ro max-connection-duration?          uint8
   | | +--ro max-connections?                  uint8
   | | +--ro max-connections-per-client?       uint8
   | | +--ro maximum-sessions?                 uint16
   | | +--ro maximum-sessions-per-connection?   uint16
   | | +--ro inactivity-timeout?               uint8
   | | +--ro vrf-name*                         -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-
name
   | | +--ro nb-connections?                   yang:counter32
   | | +--ro nb-sessions?                      yang:counter32
   | | +--ro nb-running-sessions?              yang:counter32
   | +--ro connections
   | | +--ro connection* [connection-id]
```


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```
| |    +--ro connection-id    -> ../state/connection-id
| |    +--ro state
| |       +--ro connection-id?          uint32
| |       +--ro client-address?         inet:ip-address
| |       +--ro client-port?            uint16
| |       +--ro client-vrf?             string
| |       +--ro connection-state?       string
| |       +--ro connection-time?        yang:date-and-time
| |       +--ro last-activity-time?     yang:date-and-time
| |       +--ro nb-session-requests?    yang:counter32
| |       +--ro nb-accepted-sessions?   yang:counter32
| +--ro sessions
| | +--ro session* [session-id]
| |    +--ro session-id    -> ../state/session-id
| |    +--ro state
| |       +--ro session-id?         string
| |       +--ro connection-id?      uint32
| |       +--ro session-state?      string
| |       +--ro sender-address?     inet:ip-address
| |       +--ro sender-port?        uint16
| |       +--ro receiver-address?   inet:ip-address
| |       +--ro receiver-port?      uint16
| |       +--ro receiver-vrf?       string
| |       +--ro start-time?         yang:date-and-time
| |       +--ro timeout?            uint32
| +--rw admin
|    +--rw config!
|    | +--rw enable                 empty
|    | +--rw administrative-state?   cml-data-types:cml_enable_disable_t
|    +--ro state
|       +--ro enable                empty
|       +--ro administrative-state?   cml-data-types:cml_enable_disable_t
+--rw overall-packet-rate
| +--ro state
|    +--ro packet-sending-rate?        uint32
|    +--ro senders-rate?               uint32
```

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```
|    +--ro reflectors-rate?            uint32
|    +--ro max-sending-rate?           uint32
|    +--ro max-sending-rate-crossed?   boolean
+--rw client
| +--rw config!
| | +--rw enable                       empty
| | +--rw maximum-sessions?            uint16
| | +--rw maximum-connections?         uint8
| | +--rw maximum-sessions-per-connection?   uint16
| +--ro state
| | +--ro enable                       empty
| | +--ro maximum-sessions?            uint16
| | +--ro maximum-connections?         uint8
| | +--ro maximum-sessions-per-connection?   uint16
| +--rw connections
|    +--rw connection* [connection-name vrf-name]
|       +--rw connection-name    -> ../config/connection-name
|       +--rw vrf-name           -> ../config/vrf-name
|       +--rw config
|       | +--rw connection-name?   string
|       | +--rw server-address?    ipi-twamp-types:twamp_hostname_t
|       | +--rw server-port?       ipi-twamp-types:twamp_udp_port_t
|       | +--rw vrf-name?          string
|       +--ro state
|       | +--ro connection-name?        string
|       | +--ro server-address?         ipi-twamp-types:twamp_hostname_t
|       | +--ro server-port?            ipi-twamp-types:twamp_udp_port_t
|       | +--ro vrf-name?               string
|       | +--ro client-port?            uint32
|       | +--ro client-address?         inet:ip-address
|       | +--ro connection-time?        yang:date-and-time
|       | +--ro last-activity-time?     yang:date-and-time
|       | +--ro connection-state?       string
|       | +--ro nb-session-requested?   yang:counter32
|       | +--ro nb-sessions-accepted?   yang:counter32
|       +--rw sessions
```


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```
|         +--rw session* [session-name]
|           +--rw session-name    -> ../config/session-name
|           +--rw config
|           | +--rw session-name?       string
|           | +--rw sender-port?        uint32
|           | +--rw receiver-port?      uint32
|           | +--rw sender-address?     ipi-twamp-types:twamp_hostname_t
|           | +--rw receiver-address?   ipi-twamp-types:twamp_hostname_t
|           | +--rw start-time?         ipi-twamp-types:twamp_date_time_t
|           | +--rw interface-name?     string
|           +--ro state
|             +--ro session-name?             string
|             +--ro sender-port?              uint32
|             +--ro receiver-port?            uint32
|             +--ro sender-address?           ipi-twamp-types:twamp_hostname_t
|             +--ro receiver-address?         ipi-twamp-types:twamp_hostname_t
|             +--ro start-time?               ipi-twamp-types:twamp_date_time_t
|             +--ro interface-name?           string
|             +--ro requested-receiver-port?   uint32
|             +--ro session-id?               string
+--rw sessions
  +--rw session* [session-name]
    +--rw session-name    -> ../config/session-name
    +--rw config
    | +--rw session-name?   string
    | +--rw enabled?        empty
    | +--rw description?    cml-data-types:cml_line_t
    +--ro state
    | +--ro session-name?   string
    | +--ro enabled?        empty
    | +--ro description?    cml-data-types:cml_line_t
    +--rw parameters
    | +--rw config
    | | +--rw reflector-ip?        ipi-twamp-types:twamp_hostpname_t
    | | +--rw reflector-port?      ipi-twamp-types:twamp_udp_port_t
    | | +--rw sender-ip?           ipi-twamp-types:twamp_hostpname_t
```

```
| | +--rw sender-port?        ipi-twamp-types:twamp_udp_port_t
| | +--rw vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| | +--rw vpn-net-interface?   string
| | +--rw dscp?               string
| | +--rw burst-interval?      uint16
| | +--rw burst-count?         uint8
| | +--rw interval?           uint16
| +--ro state
|    +--ro reflector-ip?       ipi-twamp-types:twamp_hostpname_t
|    +--ro reflector-port?     ipi-twamp-types:twamp_udp_port_t
|    +--ro sender-ip?          ipi-twamp-types:twamp_hostpname_t
|    +--ro sender-port?        ipi-twamp-types:twamp_udp_port_t
|    +--ro vrf-name?          -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|    +--ro vpn-net-interface?   string
|    +--ro dscp?               string
|    +--ro burst-interval?     uint16
|    +--ro burst-count?        uint8
|    +--ro interval?           uint16
+--rw notification
| +--rw config
| | +--rw enabled?          empty
| | +--rw threshold?        uint8
| | +--rw minimum-change?   uint16
| +--ro state
|    +--ro enabled?          empty
|    +--ro threshold?        uint8
|    +--ro minimum-change?   uint16
+--ro statistics
  +--ro state
     +--ro start-time?                yang:date-and-time
     +--ro elapsed-time?              uint32
     +--ro last-calculated
     | +--ro calculation-time?        yang:date-and-time
     | +--ro minimum-delay?           uint64
     | +--ro maximum-delay?           uint64
     | +--ro average-delay?           uint64
```


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```
|  +--ro minimum-delay-variation?   uint64
|  +--ro maximum-delay-variation?   uint64
|  +--ro average-delay-variation?   uint64
|  +--ro packets-sent?              yang:counter64
|  +--ro packets-received?          yang:counter64
|  +--ro packets-timeout?           yang:counter64
|  +--ro packet-loss?               decimal64
+--ro last-notified
|  +--ro time-notified-packet-loss?     yang:date-and-time
|  +--ro packet-loss?                   decimal64
|  +--ro time-notified-average-delay?   yang:date-and-time
|  +--ro average-delay?                 yang:counter64
+--ro packets
|  +--ro packets-sent?       yang:counter64
|  +--ro packets-received?   yang:counter64
|  +--ro packet-loss?        decimal64
+--ro round-trip-delay
|  +--ro minimum?   uint64
|  +--ro maximum?   uint64
|  +--ro average?   uint64
+--ro round-forward-delay
|  +--ro minimum?   uint64
|  +--ro maximum?   uint64
|  +--ro average?   uint64
+--ro reverse-delay
|  +--ro minimum?   uint64
|  +--ro maximum?   uint64
|  +--ro average?   uint64
+--ro round-trip-delay-variation
|  +--ro minimum?   uint64
|  +--ro maximum?   uint64
|  +--ro average?   uint64
+--ro forward-delay-variation
|  +--ro minimum?   uint64
|  +--ro maximum?   uint64
|  +--ro average?   uint64
```

```
            +--ro reverse-delay-variation
              +--ro minimum?   uint64
              +--ro maximum?   uint64
              +--ro average?   uint64


 rpcs:
  +---x twamp-client-start-connection {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w connection-name    string
  |     +---w vrf-name?          string
  |     +---w packet-count       uint32
  +---x twamp-client-stop-connection {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w connection-name    string
  |     +---w vrf-name?          string
  +---x twamp-client-reset-session {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w connection-name    string
  |     +---w session-name       string
  |     +---w vrf-name?          string
  +---x twamp-session-clear-measurement {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w session-name    string
  +---x twamp-session-clear-measurement-all {feature-list:HAVE_TWAMP}?
  +---x twamp-test-session-start {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w session-name       string
  |     +---w packet-count       uint16
  |     +---w packet-interval?   uint16
  |     +---w delay-threshold?   uint32
  +---x twamp-test-session-stop {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w session-name    string
  +---x twamp-terminal-debug-on {feature-list:HAVE_TWAMP}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-twamp-types:twamp_debug_t
```


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```
  +---x twamp-terminal-debug-off {feature-list:HAVE_TWAMP}?
    +---w input
      +---w terminal-debug-options    ipi-twamp-types:twamp_debug_t

notifications:
  +---n twamp-server-client-connected {feature-list:HAVE_TWAMP}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro connection-id?    uint32
  |  +--ro client-address?   inet:ip-address
  |  +--ro client-port?      uint16
  |  +--ro client-vrf?       string
  +---n twamp-server-client-disconnected {feature-list:HAVE_TWAMP}?
  |  +--ro severity?         cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?       cml-data-types:cml_notif_class_t
  |  +--ro connection-id?    uint32
  |  +--ro client-address?   inet:ip-address
  |  +--ro client-port?      uint16
  |  +--ro client-vrf?       string
  +---n twamp-server-session-accepted {feature-list:HAVE_TWAMP}?
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro session-id?        string
  |  +--ro connection-id?     uint32
  |  +--ro sender-address?    inet:ip-address
  |  +--ro sender-port?       uint16
  |  +--ro receiver-address?  inet:ip-address
  |  +--ro receiver-port?     uint16
  |  +--ro receiver-vrf?      string
  +---n twamp-server-sessions-started {feature-list:HAVE_TWAMP}?
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro session-id?      string
  |  +--ro connection-id?   uint32
  +---n twamp-server-sessions-stopped {feature-list:HAVE_TWAMP}?
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
```

```
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro session-id?      string
  |  +--ro connection-id?   uint32
  +---n twamp-server-client-inactivity-timeout {feature-list:HAVE_TWAMP}?
  |  +--ro severity?            cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?          cml-data-types:cml_notif_class_t
  |  +--ro connection-id?       uint32
  |  +--ro last-activity-time?   yang:date-and-time
  +---n twamp-server-client-maximum-connection-duration-timeout {feature-list:HAVE_TWAMP}?
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro connection-id?     uint32
  |  +--ro connection-time?   yang:date-and-time
  +---n twamp-server-maximum-connections-exceeded {feature-list:HAVE_TWAMP}?
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro max-connections?   uint8
  +---n twamp-server-maximum-sessions-exceeded {feature-list:HAVE_TWAMP}?
  |  +--ro severity?          cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?        cml-data-types:cml_notif_class_t
  |  +--ro maximum-sessions?   uint16
  +---n twamp-server-maximum-connections-per-client-exceeded {feature-list:HAVE_TWAMP}?
  |  +--ro severity?                  cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                cml-data-types:cml_notif_class_t
  |  +--ro max-connections-per-client?   uint8
  |  +--ro connection-id?               uint32
  +---n twamp-server-maximum-sessions-per-connection-exceeded {feature-list:HAVE_TWAMP}?
  |  +--ro severity?                      cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                    cml-data-types:cml_notif_class_t
  |  +--ro maximum-sessions-per-connection?   uint16
  |  +--ro connection-id?                   uint32
  +---n twamp-delay-threshold-breached {feature-list:HAVE_TWAMP}?
  |  +--ro severity?       cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?     cml-data-types:cml_notif_class_t
  |  +--ro session-name?   string
  |  +--ro vrf-name?       string
```


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```
|  +--ro average?        uint64
+---n twamp-overall-rate-crossed {feature-list:HAVE_TWAMP}?
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro packet-sending-rate?       uint32
|  +--ro senders-rate?              uint32
|  +--ro reflectors-rate?           uint32
|  +--ro max-sending-rate?          uint32
|  +--ro max-sending-rate-crossed?  boolean
+---n twamp-overall-rate-crossed-cleared {feature-list:HAVE_TWAMP}?
|  +--ro severity?                  cml-data-types:cml_notif_severity_t
|  +--ro eventClass?                cml-data-types:cml_notif_class_t
|  +--ro packet-sending-rate?       uint32
|  +--ro senders-rate?              uint32
|  +--ro reflectors-rate?           uint32
|  +--ro max-sending-rate?          uint32
|  +--ro max-sending-rate-crossed?  boolean
+---n twamp-client-session-accepted {feature-list:HAVE_TWAMP}?
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro session-name?      string
|  +--ro connection-name?   string
|  +--ro vrf-name?          string
+---n twamp-client-sessions-started {feature-list:HAVE_TWAMP}?
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro session-name?      string
|  +--ro connection-name?   string
|  +--ro vrf-name?          string
+---n twamp-client-sessions-stopped {feature-list:HAVE_TWAMP}?
|  +--ro severity?          cml-data-types:cml_notif_severity_t
|  +--ro eventClass?        cml-data-types:cml_notif_class_t
|  +--ro session-name?      string
|  +--ro connection-name?   string
|  +--ro vrf-name?          string
+---n twamp-session-measurement-threshold-crossed {feature-list:HAVE_TWAMP}?
```

```
  |  +--ro severity?        cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?      cml-data-types:cml_notif_class_t
  |  +--ro session-name?    string
  |  +--ro average-delay?   uint64
  +---n twamp-session-measurement-loss-changed {feature-list:HAVE_TWAMP}?
     +--ro severity?       cml-data-types:cml_notif_severity_t
     +--ro eventClass?     cml-data-types:cml_notif_class_t
     +--ro session-name?   string
     +--ro packet-loss?    decimal64
```

ipi-udld

```
 +--rw udld
    +--rw global
    |  +--rw config
    |  |  +--rw enable?         empty
    |  |  +--rw message-time?   uint8
    |  +--ro state
    |     +--ro enable?         empty
    |     +--ro message-time?   uint8
    +--rw debug
    |  +--rw config
    |  |  +--rw options?   ipi-udld-types:udld_debug_t
    |  +--ro state
    |     +--ro options?                 ipi-udld-types:udld_debug_t
    |     +--ro terminal-debug-status?   ipi-udld-types:udld_debug_t
    +--rw interfaces
       +--rw interface* [name]
          +--rw name      -> ../config/name
          +--rw config
          |  +--rw name?                  -> /ipi-interface:interfaces/interface/name
          |  +--rw mode?                  ipi-udld-types:udld_mode_type_t
          |  +--rw administrative-state?   cml-data-types:cml_enable_disable_t
          +--ro state
```


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```
          +--ro name?                  -> /ipi-interface:interfaces/interface/name
          +--ro mode?                  ipi-udld-types:udld_mode_type_t
          +--ro administrative-state?  cml-data-types:cml_enable_disable_t
          +--ro link-state?            ipi-udld-types:udld_link_state_type_t

rpcs:
  +---x udld-terminal-debug-on {feature-list:HAVE_UDLD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-udld-types:udld_debug_t
  +---x udld-terminal-debug-off {feature-list:HAVE_UDLD}?
     +---w input
        +---w terminal-debug-options    ipi-udld-types:udld_debug_t
```

ipi-unicast-rpf

```
  +--rw unicast-rpf {feature-list:HAVE_RPF}?
     +--rw global
     |  +--rw config
     |  |  +--rw enable-route-lookup?          empty
     |  |  +--rw enable-default-route-check?   empty {feature-list:HAVE_DUNE,feature-
list:HAVE_GLOBAL_URPF_ALLOW_DEFAULT}?
     |  +--ro state
     |     +--ro enable-route-lookup?          empty
     |     +--ro enable-default-route-check?   empty {feature-list:HAVE_DUNE,feature-
list:HAVE_GLOBAL_URPF_ALLOW_DEFAULT}?
     +--rw interfaces
        +--rw interface* [name]
           +--rw name      -> ../config/name
           +--rw config
           |  +--rw name?                     -> /ipi-interface:interfaces/interface/name
           |  +--rw source-reachability-mode    ipi-unicast-rpf-types:urpf_src_reachability_mode_t
           +--ro state
              +--ro name?                     -> /ipi-interface:interfaces/interface/name
              +--ro source-reachability-mode    ipi-unicast-rpf-types:urpf_src_reachability_mode_t
```

ipi-user-management

```
+--rw user-management
  +--rw debug
  |  +--rw config
  |  |  +--rw enable?   empty
  |  +--ro state
  |     +--ro enable?                 empty
  |     +--ro terminal-debug-status?   cml-data-types:cml_on_off_t
  +--rw hashing
  |  +--rw config
  |  |  +--rw password-hashing-algorithm?   ipi-user-management-types:user_mgmt_hashing_algorithm_t
  |  +--ro state
  |     +--ro password-hashing-algorithm?   ipi-user-management-types:user_mgmt_hashing_algorithm_t
  +--rw global
  |  +--rw config
  |  |  +--rw disable-default-user?   empty
  |  +--ro state
  |     +--ro disable-default-user?   empty
  +--rw users
     +--rw user* [username]
        +--rw username    -> ../config/username
        +--rw config
        |  +--rw username?              string
        |  +--rw role?                  ipi-user-management-types:user_mgmt_role_types_t
        |  +--rw rbac-role?             ipi-user-management-types:user_mgmt_rbac_role_t {feature-list:HAVE_RBAC}?
        |  +--rw (password-type)?
        |     +--:(plain-text)
        |     |  +--rw password?         string
        |     +--:(hashed)
        |        +--rw password-hashed?   string
        +--ro state
           +--ro username?              string
           +--ro role?                  ipi-user-management-types:user_mgmt_role_types_t
           +--ro rbac-role?             ipi-user-management-types:user_mgmt_rbac_role_t {feature-list:HAVE_RBAC}?
```


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```
        +--ro (password-type)?
          +--:(plain-text)
          |  +--ro password?          string
          +--:(hashed)
            +--ro password-hashed?   string

rpcs:
  +---x user-management-terminal-debug-on {feature-list:HAVE_HOSTPD,feature-list:HAVE_USER_MGMT}?
  +---x user-management-terminal-debug-off {feature-list:HAVE_HOSTPD,feature-list:HAVE_USER_MGMT}?
```

ipi-user-session-management

```
+--rw user-session
  +--rw line-console
  |  +--rw console* [console-id]
  |     +--rw console-id    -> ../config/console-id
  |     +--rw config
  |     |  +--rw console-id?                ipi-user-session-management-types:line_console_id_t
  |     |  +--rw privilege-level?           uint8
  |     |  +--rw command-history-max-limit?   uint32
  |     +--ro state
  |     |  +--ro console-id?                ipi-user-session-management-types:line_console_id_t
  |     |  +--ro privilege-level?           uint8
  |     |  +--ro command-history-max-limit?   uint32
  |     +--rw timeout
  |        +--rw config!
  |        |  +--rw minutes    uint32
  |        |  +--rw seconds?   uint32
  |        +--ro state
  |           +--ro minutes    uint32
  |           +--ro seconds?   uint32
  +--rw line-vty
  |  +--rw vty* [vty-id]
  |     +--rw vty-id     -> ../config/vty-id
  |     +--rw config
```

```
|    | +--rw vty-id?                    cml-data-types:cml_range_t
|    | +--rw privilege-level?           uint8
|    | +--rw command-history-max-limit?   uint32
|    +--ro state
|    | +--ro vty-id?                    cml-data-types:cml_range_t
|    | +--ro privilege-level?           uint8
|    | +--ro command-history-max-limit?   uint32
|    +--rw timeout
|       +--rw config!
|       | +--rw minutes    uint32
|       | +--rw seconds?   uint32
|       +--ro state
|          +--ro minutes    uint32
|          +--ro seconds?   uint32
+--ro sessions
| +--ro session* [id]
|    +--ro id       -> ../state/id
|    +--ro state
|       +--ro id?                  string
|       +--ro line?                string
|       +--ro user-name?           string
|       +--ro client-type?         ipi-user-session-types:user_session_user_type_t
|       +--ro idle-time?           string
|       +--ro process-identifier?   uint32
|       +--ro type?                ipi-user-session-types:user_session_type_t
|       +--ro user-role?           ipi-user-session-types:user_session_user_role_type_t
|       +--ro remote-ip?           string
+--rw max-session-limit
   +--rw config
   | +--rw max-session-limit?   uint8
   +--ro state
      +--ro max-session-limit?   uint8

rpcs:
 +---x clear-line {feature-list:HAVE_IMI}?
    +---w input
```


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```
      +---w line-name    string
```

ipi-vlan

```
+--rw vlan-classifier {feature-list:HAVE_VLAN_CLASS}?
|  +--rw classifier-rules
|  |  +--rw classifier-rule* [rule-id]
|  |     +--rw rule-id          -> ../config/rule-id
|  |     +--rw config
|  |     |  +--rw rule-id?   uint16
|  |     +--ro state
|  |     |  +--ro rule-id?   uint16
|  |     +--rw rule-criteria
|  |        +--rw config
|  |        |  +--rw mac-address?    cml-data-types:cml_mac_addr_t
|  |        |  +--rw ipv4-address?   cml-data-types:cml_ipv4_prefix_t
|  |        |  +--rw ether-type?     ipi-vlan-types:vlan_classifier_ethertype_t
|  |        +--ro state
|  |           +--ro mac-address?    cml-data-types:cml_mac_addr_t
|  |           +--ro ipv4-address?   cml-data-types:cml_ipv4_prefix_t
|  |           +--ro ether-type?     ipi-vlan-types:vlan_classifier_ethertype_t
|  +--rw classifier-groups
|  |  +--rw classifier-group* [group-id rule-id]
|  |     +--rw group-id    -> ../config/group-id
|  |     +--rw rule-id     -> ../config/rule-id
|  |     +--rw config
|  |     |  +--rw group-id?   uint8
|  |     |  +--rw rule-id?    -> /vlan-classifier/classifier-rules/classifier-rule/rule-id
|  |     +--ro state
|  |        +--ro group-id?   uint8
|  |        +--ro rule-id?    -> /vlan-classifier/classifier-rules/classifier-rule/rule-id
|  +--rw ports
```

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```
  |    +--rw port* [port-name group-id]
  |       +--rw port-name    -> ../config/port-name
  |       +--rw group-id     -> ../config/group-id
  |       +--rw config
  |       |  +--rw port-name?   -> /ipi-interface:interfaces/interface/name
  |       |  +--rw group-id?    -> /vlan-classifier/classifier-groups/classifier-group/group-id
  |       |  +--rw vlan-id      -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/vlans/vlan/vlan-
id
  |       +--ro state
  |          +--ro port-name?   -> /ipi-interface:interfaces/interface/name
  |          +--ro group-id?    -> /vlan-classifier/classifier-groups/classifier-group/group-id
  |         +--ro vlan-id      -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/vlans/vlan/vlan-id
  +--rw layer2-global
  |  +--rw config
  |  |  +--rw disable-vlan-classifier-feature?   empty {feature-list:HAVE_VLAN_CLASS}?
  |  |  +--rw disable-port-security?             empty
  |  |  +--rw vlan-xlate-1?                      empty
  |  +--ro state
  |     +--ro disable-vlan-classifier-feature?   empty {feature-list:HAVE_VLAN_CLASS}?
  |     +--ro disable-port-security?             empty
  |     +--ro vlan-xlate-1?                      empty
  +--rw vlan-global
     +--ro counters
        +--ro total-vlans?     yang:counter32
        +--ro maximum-vlans?   yang:counter32

  augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:
    +--rw vlans
       +--rw vlan* [vlan-id]
          +--rw vlan-id          -> ../config/vlan-id
          +--rw config
          |  +--rw vlan-id?               cml-data-types:cml_range_t
          |  +--rw disable-mac-learning?   empty
          +--ro state
          |  +--ro vlan-id?               cml-data-types:cml_range_t
          |  +--ro disable-mac-learning?   empty
          +--rw customer-vlan
```


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```
      |  +--rw config
      |  |  +--rw type?    ipi-vlan-types:cvlan_type_t
      |  |  +--rw name?    string
      |  |  +--rw state?   ipi-vlan-types:vlan_state_t
      |  +--ro state
      |     +--ro type?               ipi-vlan-types:cvlan_type_t
      |     +--ro name?                 string
      |     +--ro state?              ipi-vlan-types:vlan_state_t
      |     +--ro operational-status?   ipi-vlan-types:vlan_oper_status_t
      |     +--ro tagged-interface*     string
      +--rw service-vlan {feature-list:HAVE_PROVIDER_BRIDGE}?
      |  +--rw config
      |  |  +--rw type?    ipi-vlan-types:svlan_type_t
      |  |  +--rw name?    string
      |  |  +--rw state?   ipi-vlan-types:vlan_state_t
      |  +--ro state
      |     +--ro type?               ipi-vlan-types:svlan_type_t
      |     +--ro name?                 string
      |     +--ro state?              ipi-vlan-types:vlan_state_t
      |     +--ro operational-status?   ipi-vlan-types:vlan_oper_status_t
      |     +--ro tagged-interface*     string
      +--rw private-vlan {feature-list:HAVE_PVLAN}?
         +--rw config!
         |  +--rw type    ipi-vlan-types:vlan_pvlan_type_t
         +--ro state
         |  +--ro type    ipi-vlan-types:vlan_pvlan_type_t
         +--rw association
            +--rw config
            |  +--rw secondary-vlan?   cml-data-types:cml_range_t
            +--ro state
               +--ro secondary-vlan?   cml-data-types:cml_range_t
augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:
  +--rw cvlan-registration-tables {feature-list:HAVE_VLAN,feature-list:HAVE_PROVIDER_BRIDGE}?
     +--rw cvlan-registration-table* [table-name]
        +--rw table-name        -> ../config/table-name
        +--rw config
```

```
        |  +--rw table-name?   string
        +--ro state
        |  +--ro table-name?   string
        +--rw cvlan-mappings
          +--rw cvlan-mapping* [svlan-id cvlan-id]
            +--rw svlan-id    -> ../config/svlan-id
            +--rw cvlan-id    -> ../config/cvlan-id
            +--rw config
            |  +--rw svlan-id?             uint16
            |  +--rw cvlan-id?             cml-data-types:cml_range_t
            |  +--rw untagged-ep?          ipi-vlan-types:cvlan_config_t
            |  +--rw translated-cvlan-id?   uint16
            |  +--rw cos-to-queue?         -> /ipi-qos:qos/global/map-profile/cos-to-queue-profiles/cos-to-queue-profile/
name {feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
            |  +--rw remark-cos?           empty {feature-list:HAVE_QOS,feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
            +--ro state
              +--ro svlan-id?             uint16
              +--ro cvlan-id?             cml-data-types:cml_range_t
              +--ro untagged-ep?          ipi-vlan-types:cvlan_config_t
              +--ro translated-cvlan-id?   uint16
             +--ro cos-to-queue?         -> /ipi-qos:qos/global/map-profile/cos-to-queue-profiles/cos-to-queue-profile/name
{feature-list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
              +--ro remark-cos?           empty {feature-list:HAVE_QOS,feature-
list:HAVE_CUSTOM2_QOS_OR_HAVE_CUSTOM4_QOS}?
```

ipi-vm

```
 +--rw vm
 |  +--rw vm-bridges
 |  |  +--rw vm-bridge* [bridge-name]
 |  |    +--rw bridge-name    -> ../config/bridge-name
 |  |    +--rw config
 |  |    |  +--rw bridge-name?   string
 |  |    +--ro state
 |  |      +--ro bridge-name?   string
```


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```
| +--rw control-channel
|    +--rw config!
|    | +--rw vlan    uint16
|    | +--rw tpid    string
|    +--ro state
|       +--ro vlan    uint16
|       +--ro tpid    string
+--rw nat
| +--rw dnat
| | +--rw dnat-vrf* [from-match-type from-match-value to-ip-addr protocol from-port-num to-port-num vrf-name]
| |    +--rw from-match-type     -> ../config/from-match-type
| |    +--rw from-match-value    -> ../config/from-match-value
| |    +--rw to-ip-addr          -> ../config/to-ip-addr
| |    +--rw protocol            -> ../config/protocol
| |    +--rw from-port-num       -> ../config/from-port-num
| |    +--rw to-port-num         -> ../config/to-port-num
| |    +--rw vrf-name            -> ../config/vrf-name
| |    +--rw config!
| |    | +--rw from-match-type?    ipi-vm-types:cml_nat_from_match_t
| |    | +--rw from-match-value?   ipi-vm-types:cml_nat_from_value_t
| |    | +--rw to-ip-addr?         inet:ipv4-address
| |    | +--rw protocol?           ipi-vm-types:cml_proto_t
| |    | +--rw from-port-num?      int32
| |    | +--rw to-port-num?        int32
| |    | +--rw vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| |    +--ro state
| |       +--ro from-match-type?    ipi-vm-types:cml_nat_from_match_t
| |       +--ro from-match-value?   ipi-vm-types:cml_nat_from_value_t
| |       +--ro to-ip-addr?         inet:ipv4-address
| |       +--ro protocol?           ipi-vm-types:cml_proto_t
| |       +--ro from-port-num?      int32
| |       +--ro to-port-num?        int32
| |       +--ro vrf-name?           -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
| +--rw snat
|    +--rw snat-vrf* [from-ip-addr to-ip-addr vrf-name]
|       +--rw from-ip-addr    -> ../config/from-ip-addr
```

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```
|       +--rw to-ip-addr      -> ../config/to-ip-addr
|       +--rw vrf-name        -> ../config/vrf-name
|       +--rw config!
|       |  +--rw from-ip-addr?   cml-data-types:cml_ipv4_prefix_t
|       |  +--rw to-ip-addr?     ipi-vm-types:cml_nat_from_value_t
|       |  +--rw vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
|       +--ro state
|          +--ro from-ip-addr?   cml-data-types:cml_ipv4_prefix_t
|          +--ro to-ip-addr?     ipi-vm-types:cml_nat_from_value_t
|          +--ro vrf-name?       -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
 +--rw guestVm
    +--rw config!
    |  +--rw enable-feature    boolean
    +--ro state
       +--ro enable-feature    boolean
```

ipi-vrf

```
 +--rw vrf-global
    +--ro counters
       +--ro total-vrfs?     yang:counter32
       +--ro maximum-vrfs?   yang:counter32

 augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance:
   +--rw vrf
      +--rw config
      |  +--rw vrf-name?                -> /ipi-network-instance:network-instances/network-instance/instance-name
      |  +--rw description?             cml-data-types:cml_line_t
      |  +--rw tunnel-select-policy?      string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
      |  +--rw lsp-encap-dscp-preserve?   ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?
      |  +--rw router-id?               inet:ipv4-address
      |  +--rw evpn-layer3-network-id?    uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
      |  +--rw mtu?                     uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
```


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```
      +--ro state
      |  +--ro vrf-name?                -> /ipi-network-instance:network-instances/network-instance/instance-name
      |  +--ro description?             cml-data-types:cml_line_t
      |  +--ro tunnel-select-policy?    string {feature-list:HAVE_SERVICE_MAPPING_OR_HAVE_SRV6}?
      |  +--ro lsp-encap-dscp-preserve?   ipi-mpls-types:mpls_dscp_preserve_state_t {feature-list:HAVE_MPLS,feature-
list:HAVE_DUNE}?
      |  +--ro router-id?               inet:ipv4-address
      |  +--ro evpn-layer3-network-id?    uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
      |  +--ro mtu?                     uint32 {feature-list:HAVE_BGP_EVPN,feature-list:HAVE_NVO}?
      |  +--ro vrf-id?                  uint32
      |  +--ro fib-id?                  uint32
      +--rw snmp {feature-list:HAVE_SNMP}?
        +--rw config
        |  +--rw snmp-context-name?   string
        +--ro state
          +--ro snmp-context-name?   string


  rpcs:
    +---x clear-default-router-id {feature-list:HAVE_L3}?
    +---x clear-vrf-router-id {feature-list:HAVE_VRF}?
      +---w input
        +---w vrfName    string
```

ipi-vrrp

```
  +--rw vrrp
    +--rw global
    |  +--rw config
    |  |  +--rw disable-virtual-router-mac-address?   empty
    |  |  +--rw vrrp-v2-compatible?                   empty
```

```
| | +--rw ipv4-exclude-pseudo-header?          empty
| +--ro state
| | +--ro disable-virtual-router-mac-address?   empty
| | +--ro vrrp-v2-compatible?                   empty
| | +--ro ipv4-exclude-pseudo-header?           empty
| | +--ro notification-control?                 empty
| +--ro session
| | +--ro state
| |    +--ro session-table-maximum?   uint32
| |    +--ro session-table-size?      uint32
| |    +--ro ipv4-session-count?      uint32
| |    +--ro ipv6-session-count?      uint32
| +--ro new-master
| | +--ro operational-master-address?   inet:ip-address
| | +--ro virtual-router-id?            uint8
| | +--ro new-master-reason?            ipi-vrrp-types:vrrp_new_master_reason_t
| | +--ro uptime?                       string
| +--ro protocol-error
| | +--ro operational-master-address?   inet:ip-address
| | +--ro virtual-router-id?            uint8
| | +--ro error-reason?                 ipi-vrrp-types:vrrp_error_reason_t
| | +--ro uptime?                       string
| +--ro packet-error
| | +--ro error-reason?   ipi-vrrp-types:vrrp_error_reason_t
| +--ro errors
|    +--ro state
|       +--ro checksum-error?             yang:counter64
|       +--ro version-error?              yang:counter64
|       +--ro invalid-virtual-router-id?   yang:counter64
+--rw debug
| +--rw config
| | +--rw options?   ipi-vrrp-types:vrrp_debug_t
| +--ro state
|    +--ro options?                ipi-vrrp-types:vrrp_debug_t
|    +--ro terminal-debug-status?   ipi-vrrp-types:vrrp_debug_t
+--rw ipv4-instances
```


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```
|  +--rw ipv4-instance* [virtual-router-id]
|     +--rw virtual-router-id    -> ../config/virtual-router-id
|     +--rw config
|     |  +--rw virtual-router-id?   uint8
|     +--ro state
|     |  +--ro virtual-router-id?   uint8
|     +--rw interfaces
|        +--rw interface* [interface-name]
|           +--rw interface-name         -> ../config/interface-name
|           +--rw config
|           |  +--rw vrrp-v2-compatible?           empty
|           |  +--rw ipv4-exclude-pseudo-header?   empty
|           |  +--rw authentication-data?          string
|           |  +--rw primary-ip-address?           inet:ipv4-address
|           |  +--rw mlag-active-standby?          empty {feature-list:HAVE_MLAG}?
|           |  +--rw interface-name?               -> /ipi-interface:interfaces/interface/name
|           |  +--rw disable-preempt-mode?         empty
|           |  +--rw priority?                     uint8
|           |  +--rw preempt-delay?                uint32
|           |  +--rw advertisement-interval?       uint16
|           |  +--rw disable-accept-mode?          empty
|           +--ro state
|           |  +--ro vrrp-v2-compatible?           empty
|           |  +--ro ipv4-exclude-pseudo-header?   empty
|           |  +--ro authentication-data?          string
|           |  +--ro primary-ip-address?           inet:ipv4-address
|           |  +--ro mlag-active-standby?          empty {feature-list:HAVE_MLAG}?
|           |  +--ro interface-name?               -> /ipi-interface:interfaces/interface/name
|           |  +--ro disable-preempt-mode?         empty
|           |  +--ro priority?                     uint8
|           |  +--ro preempt-delay?                uint32
|           |  +--ro advertisement-interval?       uint16
|           |  +--ro disable-accept-mode?          empty
|           +--rw protocol-enable
|           |  +--rw config
|           |  |  +--rw enable?   empty
```

```
|       | +--ro state
|       |    +--ro enable?   empty
|       +--rw virtual-ip
|       | +--rw config!
|       | | +--rw virtual-ip-address    inet:ipv4-address
|       | | +--rw ip-address-owner      boolean
|       | +--ro state
|       |    +--ro virtual-ip-address    inet:ipv4-address
|       |    +--ro ip-address-owner      boolean
|       +--rw interfaces-tracking
|       | +--rw interface-tracking* [interface-tracking-name]
|       |    +--rw interface-tracking-name    -> ../config/interface-tracking-name
|       |    +--rw config
|       |    | +--rw interface-tracking-name?   -> /ipi-interface:interfaces/interface/name
|       |    | +--rw priority-decrement         uint8
|       |    +--ro state
|       |       +--ro interface-tracking-name?   -> /ipi-interface:interfaces/interface/name
|       |       +--ro priority-decrement         uint8
|       |       +--ro interface-status?          ipi-vrrp-types:vrrp_iface_status_t
|       |       +--ro interface-down-events?     uint32
|       +--ro addresses
|       | +--ro state
|       |    +--ro operational-primary-address?   inet:ipv4-address
|       |    +--ro operational-master-address?    inet:ipv4-address
|       +--ro session-info
|       | +--ro state
|       |    +--ro multicast-membership?     ipi-vrrp-types:vrrp_member_state_t
|       |    +--ro address-family?           ipi-vrrp-types:vrrp_addr_family_t
|       |    +--ro running-priority?         uint8
|       |    +--ro virtual-mac-mbyte-word?   cml-data-types:cml_mac_addr_t
|       |    +--ro administrative-state?     ipi-vrrp-types:vrrp_admin_state_t
|       |    +--ro init-message-code?        ipi-vrrp-types:vrrp_init_message_code_t
|       |    +--ro uptime?                   string
|       +--ro reasons
|       | +--ro state
|       |    +--ro new-master-reason?   ipi-vrrp-types:vrrp_new_master_reason_t
```


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```
|       +--ro session-status
|       | +--ro state
|       |    +--ro vrrp-state?              ipi-vrrp-types:vrrp_session_state_t
|       |    +--ro virtual-address-status?   ipi-vrrp-types:vrrp_ip_status_t
|       +--ro timers
|       | +--ro state
|       |    +--ro switchback-delay-timer?      uint32
|       |    +--ro countdown-timer?             uint32
|       |    +--ro skew-time?                   uint32
|       |    +--ro garp-packet-delay?           uint32
|       |    +--ro master-advertise-interval?   uint32
|       |    +--ro refresh-rate-interval?       uint32
|       +--ro statistics
|       | +--ro state
|       |    +--ro transitions-to-master?           yang:counter64
|       |    +--ro advertise-received?              yang:counter64
|       |    +--ro priority-zero-received-packets?   yang:counter64
|       |    +--ro priority-zero-sent-packets?       yang:counter64
|       |    +--ro disconnection-time?              string
|       |    +--ro monitored-circuit-up-events?      yang:counter64
|       |    +--ro monitored-circuit-down-events?    yang:counter64
|       +--ro errors
|       | +--ro state
|       |    +--ro ttl-error-packets?              yang:counter64
|       |    +--ro invalid-type-packets?           yang:counter64
|       |    +--ro address-list-errors?            yang:counter64
|       |    +--ro invalid-authentication-type?     yang:counter64
|       |    +--ro authentication-type-mismatch?    yang:counter64
|       |    +--ro wrong-authentication-password?   yang:counter64
|       |    +--ro address-mismatch-packets?        yang:counter64
|       |    +--ro packet-length-errors?           yang:counter64
|       +--rw objects-tracking {feature-list:HAVE_OBJ_TRACKING}?
|         +--rw object-tracking* [tracking-id]
|            +--rw tracking-id    -> ../config/tracking-id
|            +--rw config
|            | +--rw tracking-id?   uint16
```

```
|              | +--rw decrement      uint8
|              +--ro state
|                +--ro tracking-id?         uint16
|                +--ro decrement            uint8
|                +--ro object-status?       ipi-vrrp-types:vrrp_iface_status_t
|                +--ro object-down-events?  uint32
+--rw ipv6-instances
  +--rw ipv6-instance* [virtual-router-id]
    +--rw virtual-router-id    -> ../config/virtual-router-id
    +--rw config
    | +--rw virtual-router-id?  uint8
    +--ro state
    | +--ro virtual-router-id?  uint8
    +--rw interfaces
      +--rw interface* [interface-name]
        +--rw interface-name         -> ../config/interface-name
        +--rw config
        | +--rw primary-ip-address?      inet:ipv6-address
        | +--rw interface-name?          -> /ipi-interface:interfaces/interface/name
        | +--rw disable-preempt-mode?    empty
        | +--rw priority?                uint8
        | +--rw preempt-delay?           uint32
        | +--rw advertisement-interval?  uint16
        | +--rw disable-accept-mode?     empty
        +--ro state
        | +--ro primary-ip-address?      inet:ipv6-address
        | +--ro interface-name?          -> /ipi-interface:interfaces/interface/name
        | +--ro disable-preempt-mode?    empty
        | +--ro priority?                uint8
        | +--ro preempt-delay?           uint32
        | +--ro advertisement-interval?  uint16
        | +--ro disable-accept-mode?     empty
        +--rw protocol-enable
        | +--rw config
        | | +--rw enable?  empty
        | +--ro state
```


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```
|    +--ro enable?   empty
+--rw virtual-ip-addresses {feature-list:HAVE_IPV6}?
| +--rw virtual-ip-address* [virtual-ip-address]
|    +--rw virtual-ip-address    -> ../config/virtual-ip-address
|    +--rw config
|    | +--rw virtual-ip-address?   inet:ipv6-address
|    | +--rw ip-address-owner?     boolean
|    +--ro state
|       +--ro virtual-ip-address?   inet:ipv6-address
|       +--ro ip-address-owner?     boolean
+--rw interfaces-tracking
| +--rw interface-tracking* [interface-tracking-name]
|    +--rw interface-tracking-name    -> ../config/interface-tracking-name
|    +--rw config
|    | +--rw interface-tracking-name?   -> /ipi-interface:interfaces/interface/name
|    | +--rw priority-decrement         uint8
|    +--ro state
|       +--ro interface-tracking-name?   -> /ipi-interface:interfaces/interface/name
|       +--ro priority-decrement         uint8
|       +--ro interface-status?          ipi-vrrp-types:vrrp_iface_status_t
|       +--ro interface-down-events?     uint32
+--ro addresses
| +--ro state
|    +--ro operational-primary-ipv6?   inet:ipv6-address
|    +--ro operational-master-ipv6?    inet:ipv6-address
+--ro session-info
| +--ro state
|    +--ro multicast-membership?     ipi-vrrp-types:vrrp_member_state_t
|    +--ro address-family?           ipi-vrrp-types:vrrp_addr_family_t
|    +--ro running-priority?         uint8
|    +--ro virtual-mac-mbyte-word?   cml-data-types:cml_mac_addr_t
|    +--ro administrative-state?     ipi-vrrp-types:vrrp_admin_state_t
|    +--ro init-message-code?        ipi-vrrp-types:vrrp_init_message_code_t
|    +--ro uptime?                   string
+--ro reasons
| +--ro state
```

```
|    +--ro new-master-reason?   ipi-vrrp-types:vrrp_new_master_reason_t
+--ro session-status
| +--ro state
|    +--ro vrrp-state?              ipi-vrrp-types:vrrp_session_state_t
|    +--ro virtual-address-status?   ipi-vrrp-types:vrrp_ip_status_t
+--ro timers
| +--ro state
|    +--ro switchback-delay-timer?      uint32
|    +--ro countdown-timer?             uint32
|    +--ro skew-time?                   uint32
|    +--ro garp-packet-delay?           uint32
|    +--ro master-advertise-interval?   uint32
|    +--ro refresh-rate-interval?       uint32
+--ro statistics
| +--ro state
|    +--ro transitions-to-master?            yang:counter64
|    +--ro advertise-received?               yang:counter64
|    +--ro priority-zero-received-packets?   yang:counter64
|    +--ro priority-zero-sent-packets?       yang:counter64
|    +--ro disconnection-time?               string
|    +--ro monitored-circuit-up-events?      yang:counter64
|    +--ro monitored-circuit-down-events?    yang:counter64
+--ro errors
| +--ro state
|    +--ro ttl-error-packets?               yang:counter64
|    +--ro invalid-type-packets?            yang:counter64
|    +--ro address-list-errors?             yang:counter64
|    +--ro invalid-authentication-type?     yang:counter64
|    +--ro authentication-type-mismatch?    yang:counter64
|    +--ro wrong-authentication-password?   yang:counter64
|    +--ro address-mismatch-packets?        yang:counter64
|    +--ro packet-length-errors?            yang:counter64
+--rw objects-tracking {feature-list:HAVE_OBJ_TRACKING}?
   +--rw object-tracking* [tracking-id]
      +--rw tracking-id    -> ../config/tracking-id
      +--rw config
```


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```
          |  +--rw tracking-id?   uint16
          |  +--rw decrement      uint8
          +--ro state
             +--ro tracking-id?          uint16
             +--ro decrement             uint8
             +--ro object-status?        ipi-vrrp-types:vrrp_iface_status_t
             +--ro object-down-events?   uint32

rpcs:
  +---x vrrp-snmp-restart {feature-list:HAVE_SNMP}?
  +---x vrrp-clear-statistics {feature-list:HAVE_VRRPD}?
  +---x vrrp-clear-ipv4-statistics {feature-list:HAVE_VRRPD}?
  +---x vrrp-clear-ipv6-statistics {feature-list:HAVE_VRRPD}?
  +---x vrrp-clear-session-ipv4-statistics {feature-list:HAVE_VRRPD}?
  |  +---w input
  |     +---w vrrp-id          uint8
  |     +---w interface-name    string
  +---x vrrp-clear-session-ipv6-statistics {feature-list:HAVE_VRRPD}?
  |  +---w input
  |     +---w vrrp-id          uint8
  |     +---w interface-name    string
  +---x vrrp-terminal-debug-all-on {feature-list:HAVE_VRRPD}?
  +---x vrrp-terminal-debug-all-off {feature-list:HAVE_VRRPD}?
  +---x vrrp-terminal-debug-on {feature-list:HAVE_VRRPD}?
  |  +---w input
  |     +---w terminal-debug-options    ipi-vrrp-types:vrrp_debug_t
  +---x vrrp-terminal-debug-off {feature-list:HAVE_VRRPD}?
     +---w input
        +---w terminal-debug-options    ipi-vrrp-types:vrrp_debug_t

notifications:
  +---n vrrp-new-master
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro operational-master-address?   inet:ip-address
  |  +--ro virtual-router-id?           uint8
```

```
  |  +--ro new-master-reason?           ipi-vrrp-types:vrrp_new_master_reason_t
  |  +--ro uptime?                      string
  +---n vrrp-protocol-error
  |  +--ro severity?                    cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?                  cml-data-types:cml_notif_class_t
  |  +--ro operational-master-address?  inet:ip-address
  |  +--ro virtual-router-id?           uint8
  |  +--ro error-reason?                ipi-vrrp-types:vrrp_error_reason_t
  |  +--ro uptime?                      string
  +---n vrrp-packet-error
     +--ro severity?       cml-data-types:cml_notif_severity_t
     +--ro eventClass?     cml-data-types:cml_notif_class_t
     +--ro error-reason?   ipi-vrrp-types:vrrp_error_reason_t
```

ipi-vxlan

```
 +--rw vxlan
    +--rw global
    |  +--rw config!
    |  |  +--rw enable-vxlan           empty
    |  |  +--rw vtep-ipv4?             inet:ipv4-address
    |  |  +--rw mac-ageing-timer?      uint32
    |  |  +--rw arp-nd-refresh-timer?  uint32 {feature-list:HAVE_BGP_EVPN}?
    |  |  +--rw mac-address?           cml-data-types:cml_mac_addr_t {feature-list:HAVE_BGP_EVPN}?
    |  +--ro state
    |     +--ro enable-vxlan           empty
    |     +--ro vtep-ipv4?             inet:ipv4-address
    |     +--ro mac-ageing-timer?      uint32
    |     +--ro arp-nd-refresh-timer?  uint32 {feature-list:HAVE_BGP_EVPN}?
    |     +--ro mac-address?           cml-data-types:cml_mac_addr_t {feature-list:HAVE_BGP_EVPN}?
    +--rw qos-tunnel-mappings
    |  +--rw qos-tunnel-mapping* [qos-map-mode traffic-direction] {feature-list:HAVE_QOS}?
    |     +--rw qos-map-mode        -> ../config/qos-map-mode
    |     +--rw traffic-direction   -> ../config/traffic-direction
    |     +--rw config
```


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```
    |     | +--rw traffic-direction?   ipi-vxlan-types:vxlan_qos_dir_t
    |     | +--rw qos-map-mode?        ipi-vxlan-types:vxlan_qos_global_mode_t
    |     | +--rw profile-name         string
    |     +--ro state
    |       +--ro traffic-direction?   ipi-vxlan-types:vxlan_qos_dir_t
    |       +--ro qos-map-mode?        ipi-vxlan-types:vxlan_qos_global_mode_t
    |       +--ro profile-name         string
    +--rw vxlan-tenants
    |  +--rw vxlan-tenant* [vxlan-identifier]
    |     +--rw vxlan-identifier         -> ../config/vxlan-identifier
    |     +--rw config
    |     | +--rw vxlan-identifier?       uint32
    |     | +--rw tenant-type?            ipi-vxlan-types:vxlan_tenant_type_t
    |     | +--rw tenant-type-bridge?     ipi-vxlan-types:vxlan_tenant_type_bridge_t
    |     | +--rw etree-leaf?             empty
    |     | +--rw xconnect-identifier?    uint32 {feature-list:HAVE_EVPN_VPWS}?
    |     | +--rw tenant-xconnect-type?   ipi-vxlan-types:vxlan_tenant_xconnect_type_t
    |     | +--rw vrf-name?               -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_BGP_EVPN}?
    |     | +--rw map-network*            string
    |     | +--rw mac-hold-timer?         int32 {feature-list:HAVE_BGP_EVPN}?
    |     | +--rw tenant-description?     string
    |     | +--rw irb-name?               -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_BGP_EVPN}?
    |     | +--rw evi-learning-limit?     -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-
lim-profile-name
    |     +--ro state
    |     | +--ro vxlan-identifier?       uint32
    |     | +--ro tenant-type?            ipi-vxlan-types:vxlan_tenant_type_t
    |     | +--ro tenant-type-bridge?     ipi-vxlan-types:vxlan_tenant_type_bridge_t
    |     | +--ro etree-leaf?             empty
    |     | +--ro xconnect-identifier?    uint32 {feature-list:HAVE_EVPN_VPWS}?
    |     | +--ro tenant-xconnect-type?   ipi-vxlan-types:vxlan_tenant_xconnect_type_t
    |     | +--ro vrf-name?               -> /ipi-network-instance:network-instances/network-instance/ipi-vrf:vrf/config/vrf-name
{feature-list:HAVE_BGP_EVPN}?
    |     | +--ro map-network*            string
    |     | +--ro mac-hold-timer?         int32 {feature-list:HAVE_BGP_EVPN}?
    |     | +--ro tenant-description?     string
```

```
    |    | +--ro irb-name?              -> /ipi-interface:interfaces/interface/name {feature-list:HAVE_BGP_EVPN}?
    |    | +--ro evi-learning-limit?    -> /ipi-mac-limit:mac-limit-global/mac-limit-profiles/mac-limit-profile-inst/config/mac-lim-profile-name
    |    +--ro route-count-info
    |    | +--ro state
    |    |    +--ro total?      uint32
    |    |    +--ro mac-only?   uint32
    |    |    +--ro mac-ipv4?   uint32
    |    |    +--ro mac-ipv6?   uint32 {feature-list:HAVE_IPV6}?
    |    +--ro xconnect-mapping-info {feature-list:HAVE_EVPN_VPWS}?
    |    | +--ro state
    |    |    +--ro source-tenant-description?     string
    |    |    +--ro destination-vpws-identifier?   uint32
    |    |    +--ro vlan-id?                       string
    |    |    +--ro inner-vlan-id?                 uint32
    |    |    +--ro source-interface?              string
    |    |    +--ro destination-interface?         string
    |    |    +--ro vtep-ip-address?               inet:ipv4-address
    |    |    +--ro connection-type?               ipi-vxlan-types:vxlan_tenant_xconnect_connection_type_t
    |    |    +--ro connection-status?             ipi-vxlan-types:vxlan_tenant_xconnect_connection_status_t
    |    +--rw irb
    |    | +--rw config
    |    | | +--rw irb-advertise-host-route?   empty {feature-list:HAVE_BGP_EVPN}?
    |    | +--ro state
    |    |    +--ro irb-advertise-host-route?   empty {feature-list:HAVE_BGP_EVPN}?
    |    +--rw static-tenants
    |    | +--rw static-tenant* [mac-address]
    |    |    +--rw mac-address    -> ../config/mac-address
    |    |    +--rw config
    |    |    |  +--rw mac-address?        cml-data-types:cml_mac_addr_t
    |    |    |  +--rw remote-vtep-ipv4    inet:ipv4-address
    |    |    +--ro state
    |    |       +--ro mac-address?        cml-data-types:cml_mac_addr_t
    |    |       +--ro remote-vtep-ipv4    inet:ipv4-address
    |    +--ro arp-cache-info* [host-ip]
    |    | +--ro host-ip    -> ../state/host-ip
    |    | +--ro state
```


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```
|    |    +--ro host-ip?          inet:ipv4-address
|    |    +--ro host-mac?         cml-data-types:cml_mac_addr_t
|    |    +--ro host-type?        ipi-vxlan-types:vxlan_host_t
|    |    +--ro interface-index?   uint32
|    +--ro nd-cache-info* [host-ip]
|    |  +--ro host-ip    -> ../state/host-ip
|    |  +--ro state
|    |    +--ro host-ip?          inet:ipv6-address
|    |    +--ro host-mac?         cml-data-types:cml_mac_addr_t
|    |    +--ro host-type?        ipi-vxlan-types:vxlan_host_t
|    |    +--ro interface-index?   uint32
|    +--ro mac-table-info* [mac-address]
|    |  +--ro mac-address    -> ../state/mac-address
|    |  +--ro state
|    |    +--ro mac-address?              cml-data-types:cml_mac_addr_t
|    |    +--ro interface-name?           -> /ipi-interface:interfaces/interface/name
|    |    +--ro vlan-id?                  string
|    |    +--ro inner-vlan-id?            uint32
|    |    +--ro vtep-ip-esi?              string
|    |    +--ro host-type?                ipi-vxlan-types:vxlan_host_t
|    |    +--ro host-status?              ipi-vxlan-types:vxlan_host_status_t
|    |    +--ro access-port-description?   cml-data-types:cml_line_t
|    +--ro static-host-info* [mac-address host-ipv4]
|    |  +--ro mac-address    -> ../state/mac-address
|    |  +--ro host-ipv4      -> ../state/host-ipv4
|    |  +--ro state
|    |    +--ro mac-address?         cml-data-types:cml_mac_addr_t
|    |    +--ro static-host-state?   ipi-vxlan-types:vxlan_static_host_state_t
|    |    +--ro host-ipv4?           inet:ipv4-address
|    +--ro static-host-ipv6-info* [mac-address host-ipv6]
|       +--ro mac-address    -> ../state/mac-address
|       +--ro host-ipv6      -> ../state/host-ipv6
|       +--ro state
|          +--ro mac-address?         cml-data-types:cml_mac_addr_t
|          +--ro static-host-state?   ipi-vxlan-types:vxlan_static_host_state_t
|          +--ro host-ipv6?           inet:ipv6-address {feature-list:HAVE_IPV6}?
```

```
+--ro tunnel* [destination-vtep-ip]
|  +--ro destination-vtep-ip    -> ../state/destination-vtep-ip
|  +--ro state
|     +--ro destination-vtep-ip?   inet:ipv4-address
|     +--ro source-vtep-ip?        inet:ipv4-address
|     +--ro up-down-time?          yang:timeticks
|     +--ro tunnel-status?         ipi-vxlan-types:vxlan_tunnel_status_t
|     +--ro counters
|        +--ro out-bytes?                      yang:counter64
|        +--ro out-packets?                    yang:counter64
|        +--ro in-bytes?                       yang:counter64
|        +--ro in-packets?                     yang:counter64
|        +--ro tx-arp-discard-packets?         yang:counter64
|        +--ro tx-nd-discard-packets?          yang:counter64
|        +--ro tx-arp-request-packets?         yang:counter64
|        +--ro tx-arp-reply-packets?           yang:counter64
|        +--ro tx-neighbor-solicitation-packets?    yang:counter64
|        +--ro tx-neighbor-advertisement-packets?   yang:counter64
|        +--ro tx-garp-packets?                yang:counter64
|        +--ro tx-gna-packets?                 yang:counter64
+--rw untagged-access-interfaces
+--rw tagged-access-interfaces
+--rw double-tagged-access-interfaces
+--ro access-interfaces
|  +--ro access-interface* [interface-index]
|     +--ro interface-index    -> ../state/interface-index
|     +--ro state
|        +--ro interface-index?   uint32
|        +--ro if-name?           cml-data-types:cml_line_t
|        +--ro access-counters
|           +--ro rx-arp-discard-packets?         yang:counter64
|           +--ro tx-arp-discard-packet?          yang:counter64
|           +--ro rx-arp-request-packets?         yang:counter64
|           +--ro rx-arp-reply-packets?           yang:counter64
|           +--ro tx-arp-request-packet?          yang:counter64
|           +--ro tx-arp-reply-packet?            yang:counter64
```


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```
  |          +--ro rx-nd-discard-packets?              yang:counter64
  |          +--ro tx-nd-discard-packet?               yang:counter64
  |          +--ro rx-neighbor-solicitation-packets?   yang:counter64
  |          +--ro rx-neighbor-advertisement-packets?  yang:counter64
  |          +--ro tx-neighbor-solicitation-packet?    yang:counter64
  |          +--ro tx-neighbor-advertisement-packet?   yang:counter64
  |          +--ro rx-gratuitous-arp-packets?          yang:counter64
  |          +--ro tx-gratuitous-arp-packets?          yang:counter64
  |          +--ro rx-gratuitous-na-packets?           yang:counter64
  |          +--ro tx-gratuitous-na-packets?           yang:counter64
  |          +--ro rx-data-packets?                    yang:counter64
  |          +--ro rx-data-bytes?                      yang:counter64
  |          +--ro tx-data-packets?                    yang:counter64
  |          +--ro tx-data-bytes?                      yang:counter64
  +--rw vtep-entries
  |  +--rw vtep-entry* [address]
  |     +--rw address    -> ../config/address
  |     +--rw config
  |     |  +--rw address?       inet:ipv4-address
  |     |  +--rw description?   cml-data-types:cml_line_t
  |     |  +--rw redund-type?   ipi-vxlan-types:vxlan_vtep_redund_type_t
  |     +--ro state
  |        +--ro address?       inet:ipv4-address
  |        +--ro description?   cml-data-types:cml_line_t
  |        +--ro redund-type?   ipi-vxlan-types:vxlan_vtep_redund_type_t
  +--rw interfaces
     +--rw interface* [name]
        +--rw name      -> ../config/name
        +--rw config
        |  +--rw name?   -> /ipi-interface:interfaces/interface/name
        +--ro state
           +--ro name?   -> /ipi-interface:interfaces/interface/name

rpcs:
  +---x clear-nvo-vxlan-dynamic-mac-address-table {feature-list:HAVE_VXLAN}?
  +---x clear-nvo-vxlan-dynamic-mac-address-table-vnid {feature-list:HAVE_VXLAN}?
```

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```
  |  +---w input
  |     +---w vxlan-identifier    uint32
  |     +---w mac-address?        cml-data-types:cml_mac_addr_t
  +---x clear-nvo-vxlan-tunnels {feature-list:HAVE_VXLAN}?
  +---x clear-nvo-id-vxlan-tunnels-destip {feature-list:HAVE_VXLAN}?
  |  +---w input
  |     +---w destination-vtep-ip    inet:ipv4-address
  +---x clear-nvo-vxlan-mac-stale-entries {feature-list:HAVE_VXLAN}?
  |  +---w input
  |     +---w vxlan-identifier?   uint32
  +---x clear-vxlan-untagged-access-port-counters {feature-list:HAVE_VXLAN}?
  |  +---w input
  |     +---w interface-name    string
  +---x clear-vxlan-access-port-counters-all {feature-list:HAVE_VXLAN}?
  +---x clear-vxlan-network-port-counters {feature-list:HAVE_VXLAN}?
  |  +---w input
  |     +---w destination-vtep-ip    inet:ipv4-address
  +---x clear-vxlan-network-port-counters-all {feature-list:HAVE_VXLAN}?

 notifications:
  +---n vxlan-tunnel-status-change-notification
     +--ro severity?              cml-data-types:cml_notif_severity_t
     +--ro eventClass?            cml-data-types:cml_notif_class_t
     +--ro destination-vtep-ip?   inet:ipv4-address
     +--ro tunnel-status?         ipi-vxlan-types:vxlan_tunnel_status_t
```

ipi-watchdog

```
 +--rw watchdog {feature-list:HAVE_PSERVD}?
    +--rw config
    |  +--rw watchdog-disabled?    empty
    |  +--rw keepalive-interval?   uint16
    |  +--rw collect-coredump?     empty
    +--ro state
    |  +--ro watchdog-disabled?      empty
```


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```
  |  +--ro keepalive-interval?     uint16
  |  +--ro collect-coredump?       empty
  |  +--ro watchdog-status?        ipi-watchdog-types:watchdog_status_t
  |  +--ro all-processes-status?   ipi-watchdog-types:watchdog_global_processes_status_t
  +--rw software-modules
     +--rw software-module* [name]
        +--rw name       -> ../config/name
        +--rw config
        |  +--rw name?                          ipi-watchdog-types:watchdog_module_name_t
        |  +--rw module-watchdog-status-disabled    empty
        +--ro state
        |  +--ro name?                          ipi-watchdog-types:watchdog_module_name_t
        |  +--ro module-watchdog-status-disabled    empty
        +--rw process
           +--ro state
              +--ro process-name?     ipi-watchdog-types:watchdog_module_name_t
              +--ro process-status?   ipi-watchdog-types:watchdog_process_status_t
              +--ro start-time?       yang:date-and-time
              +--ro down-reason?      cml-data-types:cml_line_t

rpcs:
  +---x clear-core-dump {feature-list:HAVE_PSERVD,feature-list:HAVE_ZEBOS_CORE_ANALYSER}?
     +---w input
        +---w core-dump    string

notifications:
  +---n protocol-module-down {feature-list:HAVE_PSERVD}?
  |  +--ro severity?       cml-data-types:cml_notif_severity_t
  |  +--ro eventClass?     cml-data-types:cml_notif_class_t
  |  +--ro name?           ipi-watchdog-types:watchdog_module_name_t
  |  +--ro process-name?   ipi-watchdog-types:watchdog_module_name_t
  |  +--ro down-reason?    cml-data-types:cml_line_t
  +---n protocol-module-restarted {feature-list:HAVE_PSERVD}?
     +--ro severity?       cml-data-types:cml_notif_severity_t
     +--ro eventClass?     cml-data-types:cml_notif_class_t
     +--ro name?           ipi-watchdog-types:watchdog_module_name_t
```

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```
      +--ro process-name?   ipi-watchdog-types:watchdog_module_name_t
      +--ro start-time?     yang:date-and-time
```

ipi-xstp

```
 +--rw xstp
   +--rw interfaces
   |  +--rw interface* [name]
   |     +--rw name                    -> ../config/name
   |     +--rw config
   |     |  +--rw name?                          -> /ipi-interface:interfaces/interface/name
   |     |  +--rw hello-time?                    uint8
   |     |  +--rw port-configuration?            ipi-xstp-types:xstp_port_edge_t
   |     |  +--rw enable-automatic-edge-detection?   empty
   |     |  +--rw bpdu-guard?                    ipi-xstp-types:xstp_bpdu_t
   |     |  +--rw bpdu-filter?                   ipi-xstp-types:xstp_bpdu_t
   |     |  +--rw enable-root-guard?             empty
   |     |  +--rw link-type?                     ipi-xstp-types:xstp_link_type_t
   |     |  +--rw enable-restricted-domain-role?     empty
   |     |  +--rw enable-restricted-role?        empty
   |     |  +--rw enable-restricted-tcn?         empty
   |     +--ro state
   |     |  +--ro name?                          -> /ipi-interface:interfaces/interface/name
   |     |  +--ro hello-time?                    uint8
   |     |  +--ro port-configuration?            ipi-xstp-types:xstp_port_edge_t
   |     |  +--ro enable-automatic-edge-detection?   empty
   |     |  +--ro bpdu-guard?                    ipi-xstp-types:xstp_bpdu_t
   |     |  +--ro bpdu-filter?                   ipi-xstp-types:xstp_bpdu_t
   |     |  +--ro enable-root-guard?             empty
   |     |  +--ro link-type?                     ipi-xstp-types:xstp_link_type_t
   |     |  +--ro enable-restricted-domain-role?     empty
   |     |  +--ro enable-restricted-role?        empty
   |     |  +--ro enable-restricted-tcn?         empty
   |     +--rw mstp
   |     |  +--rw mst-instances
```


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```
|    |    +--rw mst-instance* [instance-id]
|    |       +--rw instance-id    -> ../config/instance-id
|    |       +--rw config
|    |       |  +--rw instance-id?                    -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/stp/mstp/mst-instances/mst-instance/instance-id
|    |       |  +--rw enable-instance-restricted-role?   empty
|    |       |  +--rw enable-instance-restricted-tcn?    empty
|    |       +--ro state
|    |          +--ro instance-id?                    -> /ipi-network-instance:network-instances/network-instance/ipi-bridge:bridge/stp/mstp/mst-instances/mst-instance/instance-id
|    |          +--ro enable-instance-restricted-role?   empty
|    |          +--ro enable-instance-restricted-tcn?    empty
|    +--rw customer-spanning-tree {feature-list:HAVE_PROVIDER_BRIDGE}?
|       +--rw config
|       |  +--rw bridge-priority?       uint16
|       |  +--rw max-age?               uint8
|       |  +--rw hello-time?            uint8
|       |  +--rw forward-delay?         uint8
|       |  +--rw transmit-hold-count?   uint8
|       +--ro state
|       |  +--ro bridge-priority?       uint16
|       |  +--ro max-age?               uint8
|       |  +--ro hello-time?            uint8
|       |  +--ro forward-delay?         uint8
|       |  +--ro transmit-hold-count?   uint8
|       +--rw customer-edge
|       |  +--rw config
|       |  |  +--rw port-priority?   uint8
|       |  |  +--rw path-cost?       uint32
|       |  +--ro state
|       |     +--ro port-priority?   uint8
|       |     +--ro path-cost?       uint32
|       +--rw provider-edge
|          +--rw vlans
|             +--rw vlan* [svlan-id]
|                +--rw svlan-id    -> ../config/svlan-id
|                +--rw config
```

```
  |               | +--rw svlan-id?        uint16
  |               | +--rw port-priority?   uint8
  |               | +--rw path-cost?       uint32
  |               +--ro state
  |                 +--ro svlan-id?        uint16
  |                 +--ro port-priority?   uint8
  |                 +--ro path-cost?       uint32
  +--rw mstp
    +--rw debug
      +--rw config
      | +--rw options?   ipi-xstp-types:mstp_debug_t
      +--ro state
        +--ro options?                ipi-xstp-types:mstp_debug_t
        +--ro terminal-debug-status?  ipi-xstp-types:mstp_debug_t

augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge:
  +--rw stp
    +--rw config
    | +--rw ageing-time?                   ipi-xstp-types:xstp_ageing_time_t
    | +--rw enable-cisco-interoperability?  empty
    | +--rw forwarding-delay?              uint8
    | +--rw hello-time?                    uint8
    | +--rw max-age?                       uint8
    | +--rw max-hops?                      uint8
    | +--rw bridge-priority?               uint32
    | +--rw transmit-hold-count?           uint8
    +--ro state
    | +--ro ageing-time?                   ipi-xstp-types:xstp_ageing_time_t
    | +--ro enable-cisco-interoperability?  empty
    | +--ro forwarding-delay?              uint8
    | +--ro hello-time?                    uint8
    | +--ro max-age?                       uint8
    | +--ro max-hops?                      uint8
    | +--ro bridge-priority?               uint32
    | +--ro transmit-hold-count?           uint8
    +--rw global
```


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```
|  +--rw config
|  |  +--rw enable-bpdu-filter?             empty
|  |  +--rw enable-bpdu-guard?              empty
|  |  +--rw enable-error-disable-timeout?   empty
|  |  +--rw force-version?                  uint8
|  |  +--rw path-cost-method?               ipi-xstp-types:xstp_path_cost_method_t
|  +--ro state
|  |  +--ro enable-bpdu-filter?             empty
|  |  +--ro enable-bpdu-guard?              empty
|  |  +--ro enable-error-disable-timeout?   empty
|  |  +--ro force-version?                  uint8
|  |  +--ro path-cost-method?               ipi-xstp-types:xstp_path_cost_method_t
|  +--rw bridge-admins
|  |  +--rw bridge-admin* [bridge-type disable-spanning-tree]
|  |     +--rw bridge-type              -> ../config/bridge-type
|  |     +--rw disable-spanning-tree    -> ../config/disable-spanning-tree
|  |     +--rw config
|  |     |  +--rw bridge-forwarding?       ipi-xstp-types:xstp_bridge_forward_t
|  |     |  +--rw bridge-type?             ipi-xstp-types:xstp_bridge_type_t
|  |     |  +--rw disable-spanning-tree?   empty
|  |     +--ro state
|  |        +--ro bridge-forwarding?       ipi-xstp-types:xstp_bridge_forward_t
|  |        +--ro bridge-type?             ipi-xstp-types:xstp_bridge_type_t
|  |        +--ro disable-spanning-tree?   empty
|  +--rw bridge-shutdowns
|     +--rw bridge-shutdown* [enable-shutdown]
|        +--rw enable-shutdown    -> ../config/enable-shutdown
|        +--rw config
|        |  +--rw bridge-forwarding?   ipi-xstp-types:xstp_bridge_forward_t
|        |  +--rw enable-shutdown?     empty
|        +--ro state
|           +--ro bridge-forwarding?   ipi-xstp-types:xstp_bridge_forward_t
|           +--ro enable-shutdown?     empty
+--rw mstp
   +--rw config
   |  +--rw region-name?       string
```

```
  | +--rw revision-number?   uint16
  +--ro state
  | +--ro counters
  | | +--ro topology-changes-count?         uint32
  | | +--ro total-topology-changes-count?   uint32
  | | +--ro max-age-count?                  uint32
  | +--ro region-name?                      string
  | +--ro revision-number?                  uint16
  | +--ro topology-change-detected?         boolean
  | +--ro last-topology-change?             yang:date-and-time
  | +--ro topology-change-initiator?        uint16
  | +--ro topology-change-last-received-from?   string
  | +--ro cist-bridge-id?                   string
  | +--ro cist-designated-root?             string
  | +--ro cist-regional-root?               string
  | +--ro cist-designated-bridge?           string
  | +--ro cist-port-root-id?                uint16
  | +--ro external-root-path-cost?          uint32
  | +--ro internal-root-path-cost?          uint32
  +--rw mst-instances
    +--rw mst-instance* [instance-id]
    | +--rw instance-id    -> ../config/instance-id
    | +--rw config
    | | +--rw instance-id?       ipi-xstp-types:mstp_instance_t
    | | +--rw bridge-priority?   uint32
    | | +--rw vlan-id?           cml-data-types:cml_range_t
    | +--ro state
    | | +--ro instance-id?                  ipi-xstp-types:mstp_instance_t
    | | +--ro bridge-priority?              uint32
    | | +--ro vlan-id?                      cml-data-types:cml_range_t
    | | +--ro bridge-id?                    string
    | | +--ro designated-root-priority?     uint16
    | | +--ro designated-root-address?      yang:mac-address
    | | +--ro internal-root-path-cost?      uint32
    | | +--ro root-port-ifindex?            uint32
    | | +--ro topology-change-detected?     boolean
```


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```
| |  +--ro topology-change-initiator?           uint16
| |  +--ro topology-change-last-received-from?   string
| |  +--ro last-topology-change?                 yang:date-and-time
| |  +--ro topology-changes?                     uint32
|  +--rw interfaces
|    +--rw interface* [name]
|       +--rw name      -> ../config/name
|       +--rw config
|       |  +--rw name?           -> /ipi-interface:interfaces/interface/name
|       |  +--rw path-cost?       uint32
|       |  +--rw port-priority?   int16
|       +--ro state
|          +--ro counters
|          |  +--ro config-bpdu-sent?       uint32
|          |  +--ro config-bpdu-received?   uint32
|          |  +--ro tcn-bpdu-sent?          uint32
|          |  +--ro tcn-bpdu-received?      uint32
|          |  +--ro similar-bpdu-count?     uint32
|          +--ro name?                      -> /ipi-interface:interfaces/interface/name
|          +--ro path-cost?                  uint32
|          +--ro port-priority?              int16
|          +--ro port-id?                    uint16
|          +--ro internal-root-path-cost?      uint32
|          +--ro designated-root-priority?     uint16
|          +--ro designated-root-address?      yang:mac-address
|          +--ro designated-bridge-priority?   uint16
|          +--ro designated-bridge-address?    yang:mac-address
|          +--ro designated-port-priority?     uint16
|          +--ro designated-port-num?          uint16
|          +--ro designated-cost?              uint16
|          +--ro hello-time-remaining?         uint32
|          +--ro forward-time-remaining?       uint32
|          +--ro message-age-time-remaining?   uint32
|          +--ro port-state?                   string
|          +--ro port-role?                    ipi-xstp-types:mstp_port_role_t
+--rw te-mst-instance
```

```
+--rw config
|  +--rw vlan-id?                cml-data-types:cml_range_t
|  +--rw disable-spanning-tree?   empty
+--ro state
|  +--ro vlan-id?                          cml-data-types:cml_range_t
|  +--ro disable-spanning-tree?              empty
|  +--ro bridge-id?                         string
|  +--ro designated-root-priority?           uint16
|  +--ro designated-root-address?             yang:mac-address
|  +--ro internal-root-path-cost?            uint32
|  +--ro root-port-ifindex?                  uint32
|  +--ro topology-change-detected?            boolean
|  +--ro topology-change-initiator?          uint16
|  +--ro topology-change-last-received-from?   string
|  +--ro last-topology-change?               yang:date-and-time
|  +--ro topology-changes?                   uint32
+--rw interfaces
   +--rw interface* [name]
      +--rw name      -> ../config/name
      +--rw config
      |  +--rw name?   -> /ipi-interface:interfaces/interface/name
      +--ro state
         +--ro counters
         |  +--ro config-bpdu-sent?       uint32
         |  +--ro config-bpdu-received?   uint32
         |  +--ro tcn-bpdu-sent?          uint32
         |  +--ro tcn-bpdu-received?      uint32
         |  +--ro similar-bpdu-count?     uint32
         +--ro name?                       -> /ipi-interface:interfaces/interface/name
         +--ro port-id?                    uint16
         +--ro internal-root-path-cost?      uint32
         +--ro designated-root-priority?     uint16
         +--ro designated-root-address?      yang:mac-address
         +--ro designated-bridge-priority?   uint16
         +--ro designated-bridge-address?    yang:mac-address
         +--ro designated-port-priority?     uint16
```


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```
          +--ro designated-port-num?          uint16
          +--ro designated-cost?              uint16
          +--ro hello-time-remaining?         uint32
          +--ro forward-time-remaining?       uint32
          +--ro message-age-time-remaining?   uint32
          +--ro port-state?                   string
          +--ro port-role?                    ipi-xstp-types:mstp_port_role_t
  augment /ipi-network-instance:network-instances/ipi-network-instance:network-instance/ipi-bridge:bridge/ipi-
bridge:bridge-ports/ipi-bridge:interface:
    +--rw mstp-port
      +--rw port-bridge
        +--rw config
        |  +--rw path-cost?       uint32
        |  +--rw port-priority?   int16
        +--ro state
          +--ro counters
          |  +--ro config-bpdu-sent?       uint32
          |  +--ro config-bpdu-received?   uint32
          |  +--ro tcn-bpdu-sent?          uint32
          |  +--ro tcn-bpdu-received?      uint32
          |  +--ro source-mac-count?       uint32
          |  +--ro similar-bpdu-count?     uint32
          |  +--ro total-src-mac-count?    uint32
          +--ro path-cost?                          uint32
          +--ro port-priority?                      int16
          +--ro link-type?                          ipi-xstp-types:xstp_link_type_t
          +--ro bpdu-filter?                        ipi-xstp-types:xstp_bpdu_t
          +--ro current-bpdu-filter?                string
          +--ro bpdu-guard?                         ipi-xstp-types:xstp_bpdu_t
          +--ro current-bpdu-guard?                 string
          +--ro root-guard?                         string
          +--ro current-root-guard?                 string
          +--ro port-edge?                          string
          +--ro current-port-edge?                  string
          +--ro cist-path-cost?                     uint32
          +--ro cist-priority?                      uint32
          +--ro cist-port-id?                       uint16
```

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```
        +--ro cist-port-number?                      uint16
        +--ro cist-root?                             string
        +--ro cist-regional-root?                    string
        +--ro cist-designated-bridge?                string
        +--ro cist-designated-root-path-cost?        uint32
        +--ro cist-designated-external-root-path-cost?   uint32
        +--ro cist-designated-internal-root-path-cost?   uint32
        +--ro cist-designated-port-id?               uint32
        +--ro cist-hello-time-remaining?             uint32
        +--ro cist-forward-time-remaining?           uint32
        +--ro cist-message-age-time-remaining?       uint32
        +--ro cist-topology-change-time-remaining?   uint32
        +--ro cist-port-state?                       string
        +--ro cist-port-role?                        string
        +--ro cist-forward-transitions?              uint32
        +--ro service-vlan-id?                       uint16 {feature-list:HAVE_PROVIDER_BRIDGE}?

  rpcs:
    +---x mstp-terminal-debug-on {feature-list:HAVE_MSTPD}?
    |  +---w input
    |     +---w terminal-debug-options    ipi-xstp-types:mstp_debug_t
    +---x mstp-terminal-debug-off {feature-list:HAVE_MSTPD}?
    |  +---w input
    |     +---w terminal-debug-options    ipi-xstp-types:mstp_debug_t
    +---x clear-spanning-tree-detected-protocols-per-bridge {feature-list:HAVE_MSTPD}?
    |  +---w input
    |     +---w bridge-id    string
    +---x clear-spanning-tree-detected-protocols-per-interface {feature-list:HAVE_MSTPD}?
    |  +---w input
    |     +---w interface-name    string
    +---x clear-spanning-tree-statistics-per-instance-and-bridge {feature-list:HAVE_MSTPD,feature-
list:HAVE_PROVIDER_BRIDGE_OR_HAVE_B_BEB}?
    |  +---w input
    |     +---w bridge-id          string
    |     +---w mst-instance-id    ipi-xstp-types:mstp_instance_spbm_type_t
    +---x clear-spanning-tree-statistics-per-interface-vlan-and-bridge {feature-list:HAVE_MSTPD,feature-
list:HAVE_PROVIDER_BRIDGE_OR_HAVE_B_BEB}?
```


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```
  |  +---w input
  |     +---w bridge-id         string
  |     +---w interface-name    string
  |     +---w vlan-id           uint16
  +---x clear-spanning-tree-statistics-per-interface-and-bridge {feature-list:HAVE_MSTPD}?
  |  +---w input
  |     +---w bridge-id         string
  |     +---w interface-name    string
  +---x clear-spanning-tree-statistics-per-bridge {feature-list:HAVE_MSTPD}?
  |  +---w input
  |     +---w bridge-id    string
  +---x clear-spanning-tree-statistics-per-vlan-and-bridge {feature-list:HAVE_MSTPD}?
  |  +---w input
  |     +---w bridge-id    string
  |     +---w vlan-id      uint16
  +---x clear-spanning-tree-statistics-per-interface-instance-and-bridge {feature-list:HAVE_MSTPD}?
  |  +---w input
  |     +---w bridge-id          string
  |     +---w interface-name     string
  |     +---w mst-instance-id    ipi-xstp-types:mstp_instance_spbm_type_t
  +---x mstp-snmp-restart {feature-list:HAVE_SNMP}?

notifications:
  +---n bridge-new-root-notification
     +--ro severity?     cml-data-types:cml_notif_severity_t
     +--ro eventClass?   cml-data-types:cml_notif_class_t
     +--ro message?      string
```