

26

OcNOS-SP platforms, 32 Gbps to 14.4 Tbps

23

Platforms with SyncE and PTP

600+

Operators run OcNOS

Running in production

“The shift to an open, OcNOS-driven 400G IPoDWDM backbone gives us the control, visibility, and operational efficiency we need to keep our services consistently stable and ahead of demand.”

Christoph Ehmayr, Team Lead Network/System Engineer of eww ITandTEL

“Utilizing IP Infusion OcNOS has enabled us to push a rich and diverse feature set out to the edge of the network, giving us greater flexibility and variety of services available to our customers.”

Ben White, Principal Network Architect for Telcom

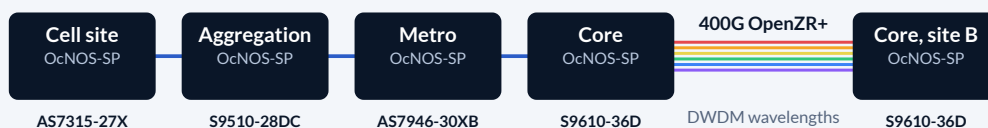
Routers for every layer of your WAN, from the cell site to the core

IP Infusion delivers complete **OcNOS-SP** routers for access, aggregation, metro, core, peering and data center interconnect. The same OcNOS-SP software runs on 26 qualified platforms from Edgecore and UfiSpace, from 32 Gbps to 14.4 Tbps, so each layer uses the router its traffic needs.

One router family across the WAN

Same OcNOS-SP software at every layer

L3VPN, VPLS and EVPN over SR-MPLS or MPLS



← Timing: PTP and SyncE from the core to the cell site

Services ride SR-MPLS or MPLS end to end, timing flows from the core to the cell site, and 400G OpenZR+ optics in the router port light the wavelength between core sites.

One CLI at every layer

The access router and the core router run the same OcNOS-SP software, with NETCONF, OpenConfig and gNMI on every platform.

MPLS, SR and EVPN together

L3VPN, VPLS and VPWS over LDP, RSVP-TE or SR-MPLS, and EVPN E-LINE, E-LAN and E-TREE over MPLS and SR.

Timing and 400G ZR+ in the router

SyncE and PTP G.8275.1 and G.8275.2 on 23 platforms, and 400G OpenZR+ on 7, with proven interoperability from multiple vendors.

Build it layer by layer

- 1 Map each site to a layer and pick its router from the Hardware Compatibility List.
- 2 Choose the OcNOS-SP tier for each router from the features its layer needs.
- 3 Bring routers up with zero touch provisioning and manage them with NETCONF and gNMI.
- 4 Run SR-MPLS or LDP in the core and carry L3VPN, VPLS and EVPN services over it.
- 5 Add 400G OpenZR+ optics on core and interconnect links where you want IP over DWDM.

An IP Infusion engineer can map each step to your network.

Plan your WAN
with an IP
Infusion
engineer.



SP Networks



IP over DWDM



Contact

About IP Infusion. IP Infusion delivers complete, validated open networking systems: carrier-grade OcNOS software on open hardware it qualifies per model and ASIC stepping, for service provider, data center and AI networks. Pre-integrated OcNOS Systems ship with support and RMA from one vendor. In production with 600+ operators across 60+ countries.

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What OcNOS-SP runs across the WAN

OcNOS-SP · support varies by platform and tier

Capability	What it does	Where
SR-MPLS with TI-LFA	Segment routing on IS-IS or OSPF with fast reroute	All OcNOS-SP
LDP and RSVP-TE	MPLS transport, with RSVP-TE fast reroute	All OcNOS-SP
L3VPN	BGP/MPLS IP VPNs, IPv4 and IPv6 (6VPE)	All OcNOS-SP
VPLS and VPWS	Layer 2 VPNs signalled by LDP or BGP	All OcNOS-SP
EVPN over MPLS and SR	E-LINE, E-LAN and E-TREE, single-homed or multihomed	All OcNOS-SP
EVPN-VXLAN	Layer 2 and Layer 3 overlay over an IP network	Selected platforms
Ethernet OAM and rings	CFM, Y.1731 delay measurement and G.8032 ring protection	All OcNOS-SP
SyncE and PTP	G.8262, G.8275.1 and G.8275.2 boundary clock, transparent clock	Selected platforms
Queuing hierarchy	One, two or three levels of queuing, with shaping per queue	All OcNOS-SP
400G OpenZR+	Coherent 400G pluggables managed from the router CLI	Selected platforms

Features are licensed in OcNOS-SP tiers. Check each platform and tier in the OcNOS Feature Matrix.

Routers for each layer



Access and cell site

Edgecore AS7315-27X

Qumran AX · 300 Gbps · 20 × 10G, 4 × 25G, 3 × 100G



Aggregation

UfiSpace S9510-28DC

Qumran 2A · 800 Gbps · 24 × 25G, 2 × 100G, 2 × 400G



Metro and core

Edgecore AS7946-30XB

Qumran 2C · 2.4 Tbps · 4 × 25G, 22 × 100G, 4 × 400G



Core, peering and DCI

UfiSpace S9610-36D

Jericho2C+ · 14.4 Tbps · 36 × 400G

All four carry SyncE and PTP; the last three carry 400G OpenZR+. See the OcNOS Hardware Compatibility List for all 26 platforms.