

26

OcNOS-SP platforms with SR-MPLS and TI-LFA

14.4 Tbps

In one 400G core router

600+

Operators run OcNOS

Running in production

“Completing a ‘forklift upgrade’ of the network is a long, expensive, and complex process. IP Infusion, UfiSpace, and Edgecore provide a path to a 100GB core and distribution network.”

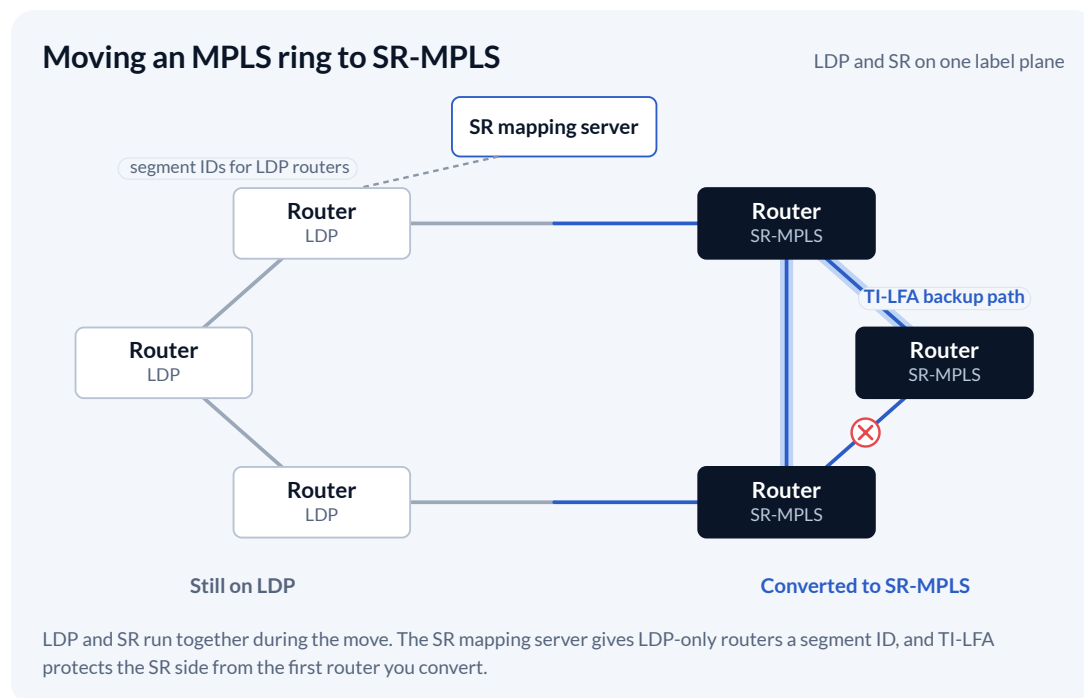
Mark Radabaugh, President of Amplex

“IP Infusion’s industry-standard CLI aided the transition immensely. The OcNOS feature set is extensive, and the product roadmap is compelling and timely. Their great after-sales support was appreciated in aiding the upgrade process.”

Matthias Feistmantl, Senior Network Operations Engineer and Architect for Citynet

SR-MPLS routers for your network, migrated one node at a time

IP Infusion delivers SR-MPLS on complete **OcNOS-SP** routers for access, aggregation, metro and core. Segment routing runs next to LDP, with LDP and SR interworking and an SR mapping server, so you move the network to SR-MPLS one router at a time while services keep running.



SR next to LDP

Enable SR in IS-IS or OSPF while LDP keeps running. LDP and SR interworking and an SR mapping server join the LDP and SR parts of the network.

TI-LFA on every router

Topology Independent Fast Reroute precomputes a backup path for each link, with SR micro-loop avoidance on IS-IS and SR BFD.

Policies and Flex-Algo

SR policies, IS-IS Flex-Algo and on-demand next hop put services on the paths you define, from the router or from a PCE.

Start the move in five steps

- 1 Pick a router for each role from the Hardware Compatibility List.
- 2 License an OcNOS-SP tier that includes SR, SP-MPLS, CSR or SP-PLUS, on each router that carries it.
- 3 Turn on SR in IS-IS or OSPF alongside LDP, and run an SR mapping server for routers that remain on LDP.
- 4 Enable TI-LFA and move L3VPN and EVPN services to SR paths, one ring at a time.
- 5 Add SR policies, Flex-Algo or a PCE when you need traffic-engineered paths.

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

Plan your SR-MPLS migration with an IP Infusion engineer.



SR-MPLS



IP Core



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 for SR-MPLS

OcNOS-SP · SP-MPLS, CSR and SP-PLUS tiers

Capability	What it does	Where
SR-MPLS on IS-IS and OSPF	Prefix and adjacency segment IDs carried in the IGP	All OcNOS-SP
LDP and SR interworking	LDP and SR run together during the migration	All OcNOS-SP
SR mapping server	Advertises segment IDs for routers that still run only LDP	All OcNOS-SP
TI-LFA	A precomputed backup path for link protection	All OcNOS-SP
SR micro-loop avoidance	Avoids transient loops after a topology change, on IS-IS	All OcNOS-SP
SR policy and ODN	Traffic engineering paths, with services steered automatically by color	All OcNOS-SP
IS-IS Flex-Algo	Separate constrained topologies with SRLG-disjoint backup paths	All OcNOS-SP
PCEP and BGP-LS	Paths from a stateful PCE and topology data exported to a controller	All OcNOS-SP
EVPN and L3VPN over SR	E-LINE and E-LAN services, and BGP/MPLS IP VPNs over SR paths	All OcNOS-SP
Entropy label	Load sharing across ECMP paths	Selected platforms

SR features are available in the OcNOS-SP-MPLS, CSR and SP-PLUS tiers, not IP Base. Check the OcNOS Feature Matrix for each platform.

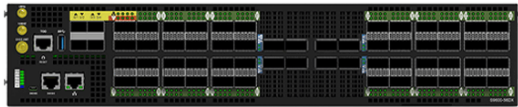
SR-MPLS routers by role



Cell site and access
UfiSpace S9500-22XST
Qumran AX · 300 Gbps · 4 × 1G, 8 × 10G, 8 × 25G, 2 × 100G



Aggregation
UfiSpace S9510-28DC
Qumran 2A · 800 Gbps · 24 × 25G, 2 × 100G, 2 × 400G



Metro and core
UfiSpace S9600-56DX
Qumran 2C · 4.8 Tbps · 4 × 25G, 48 × 100G, 8 × 400G



Core and peering
UfiSpace S9610-36D
Jericho2C+ · 14.4 Tbps · 36 × 400G

SR-MPLS and TI-LFA are supported on all 26 OcNOS-SP platforms. See the OcNOS Hardware Compatibility List for the full list.