

SR-MPLS Upgrade with OcNOS

Open Networking Software

Rapid network growth is presenting significant challenges for service providers: maintaining scalability, reducing infrastructure costs, and adopting modern architectures without service disruptions. With high infrastructure costs, low ARPU, and shrinking profitability, traditional vendor-locked systems from Cisco, Juniper, and Nokia are costly, inflexible, and resource-intensive. The demand for scalable and cost-effective open solutions has never been more urgent.

OcNOS by IP Infusion is the answer. This innovative **open networking NOS** enables **seamless SR-MPLS** upgrades while delivering unmatched flexibility, operational savings, and performance. By choosing OcNOS, providers gain a competitive edge through streamlined operations, reduced costs, and accelerated time-to-market.

Why Choose OcNOS for Your Next Network Upgrade?

- **Freedom from Vendor Lock-In.** Proprietary systems like **Cisco's ASR 9000** lock service providers into costly ecosystems with limited flexibility. OcNOS breaks these barriers, delivering equivalent or superior capabilities across 50+ whitebox platforms. This open approach offers better control over project deployment lead times, significantly reduces total cost of ownership and offers tailored network experience.
- **Space and Power Savings.** Legacy chassis systems are resource-intensive, consuming excessive power and space. OcNOS-enabled platforms deliver high-capacity performance in compact "pizza box" switches, achieving remarkable savings in both power consumption and physical footprint.
- **Cost Efficiency.** The math is simple: a single Cisco line card with 2x 400G ports often costs more than two whitebox switches running OcNOS, which come with 8x 400G and 96x 100G ports. Additionally, OcNOS supports **open optics ecosystem**. The result is unmatched value without compromising on performance.

For the price of this...

2x 400G QSFP-DD Ports



1x 400G Line Card
for Cisco ASR 9000 Upgrade
[SR-MPLS Ready]

V/S

Get these!

16x 400G QSFP-DD Ports



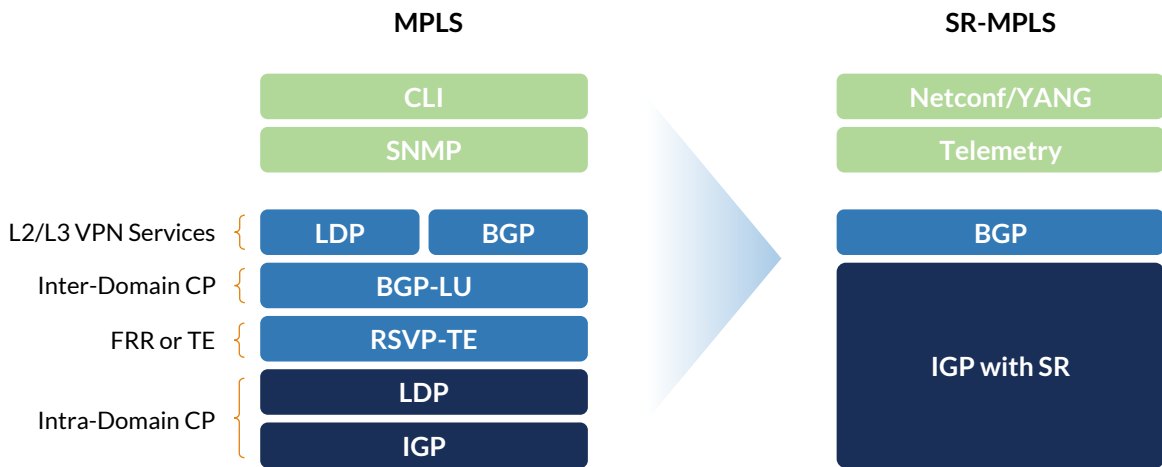
+ 96x 100G QSFP28 Ports



2x 400G OcNOS S9600-56DX
Whitebox Switches
[SR-MPLS Ready]

SR-MPLS with OcNOS: Simplifying Network Complexity

- **Streamlined Architecture.** SR-MPLS eliminates reliance on legacy protocols like LDP and RSVP-TE, reducing control plane complexity. OcNOS leverages IGP extensions for traffic engineering, enabling deterministic traffic flows while simplifying network management.



- **Comprehensive Transport Capabilities.** OcNOS supports a wide range of transport technologies, including SR-MPLS, MPLS (LDP, RSVP), and Carrier Ethernet (Layer 2). With services like EVPN, L2VPN, and L3VPN, OcNOS ensures adaptability for diverse network requirements.
- **Smooth Migration Path.** Transitioning from traditional MPLS systems to SR-MPLS is seamless with OcNOS. Providers can leverage existing MPLS hardware, avoiding costly infrastructure overhauls. OcNOS also offers a **perpetual all-inclusive licensing model**, delivering significant cost savings.

“We needed a feature set that traditionally came with higher end routing solutions from other vendors. IP Infusion was able to provide the needed features at a lower price point, allowing for a faster ROI versus other solutions.”

Ken Vedder, Network Engineer for Amplex

Advancing to 400G with OcNOS Open Networking Ecosystem

Upgrading to 400G is no longer optional; it's essential to remain competitive in a fast-evolving digital landscape. With cutting-edge performance, industry-leading scalability, and an ever-expanding ecosystem, OcNOS empowers providers to meet immediate demands while staying ahead of tomorrow's technological advancements.

- **Unrivaled Hardware Flexibility.** OcNOS boasts the widest and the fastest expanding whitebox ecosystem in the industry, supporting over 50 platforms, including **9 configurations with 400G ports**. This variety allows providers to tailor network upgrades to their unique needs, offering a range of port densities and features, and avoid network expansion delays due to long lead times.
- **Comprehensive Open Optics Ecosystem.** Designed for flexibility and innovation, OcNOS supports 8 400G ZR+ coherent pluggables from 6 leading vendors. This ensures optimal performance while reducing hardware costs and enabling seamless integration with existing systems.

“OcNOS enabled us to reduce lead times from 60+ weeks to 4 weeks.”

Dominic Romeo, Director of Technology Services of Scott Data

Transform Your Network Today

Embrace the future of networking with IP Infusion's OcNOS. Designed to simplify complexity, OcNOS delivers unmatched performance and scalability, empowering service providers to break free from vendor lock-in and reduce operational costs. With industry-leading support and proven SR-MPLS capabilities, OcNOS sets the standard for modern transport networks.

Leverage the widest whitebox ecosystem, seamless integration of 400G ZR+ coherent pluggables, and a platform trusted globally for MEF 3.0-certified services. Open networking, once considered challenging, is now a streamlined reality with comprehensive support from IP Infusion.

"By leveraging open networking, we've not only improved our network's performance but also retained the freedom to choose the best technology for our evolving needs,"

Nick Keeler, CEO of Onward

"We received 5 times more network interfaces for 1/3 of the cost."

Graham Wooden, IP Services Engineering Senior Director of Uniti

Contact for More Information:

For more information on the OcNOS software, please contact sales@ipinfusion.com

ABOUT IP INFUSION

IP Infusion is a leading provider of open network software and solutions for carriers, service providers and data center operators. Our solutions enable network operators to disaggregate their networks to accelerate innovation, streamline operations, and reduce Total Cost of Ownership (TCO). Network OEMs may also disaggregate network devices to expedite time to market, offer comprehensive services, and achieve carrier grade robustness. IP Infusion network software platforms have a proven track record in carrier-grade open networking with over 500 customers and over 10,000 deployments. IP Infusion is headquartered in Santa Clara, Calif., and is a wholly owned and independently operated subsidiary of ACCESS CO., LTD. Additional information can be found at <http://www.ipinfusion.com>

© 2024 IP Infusion, Inc. All rights reserved. IP Infusion is a registered trademark and the IP Infusion logo and OcNOS are trademarks of IP Infusion, Inc. All other trademarks and logos are the property of their respective owners. IP Infusion assumes no responsibility for any inaccuracies in this document. IP Infusion reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Phone | +1-877-699-3267 **Email** | sales@ipinfusion.com **Web** | www.ipinfusion.com