



eww ITandTEL: MODERNIZING A SOVEREIGN MPLS BACKBONE WITH OcNOS 400G ZR+ SWITCHES

Austrian regional leader modernizes its MPLS backbone by collapsing IP and optical layers with OcNOS, delivering ultra-high-speed and sovereign connectivity.

Executive Brief

eww ITandTEL, a premier Austrian IT and telecommunications provider with over 30 years of experience, has successfully transformed its core infrastructure to meet the exploding performance needs of its regional customers. Operating multiple highly secure data centers and a substantial fiber optic footprint, the provider faced a critical need to scale its 100G MPLS backbone.

By deploying IP Infusion's **OcNOS®-SP-PLUS** in partnership with EPS Global, eww ITandTEL transitioned from a legacy, transponder-based 100G network to a future-ready 400G IP over DWDM (IPoDWDM) architecture. This strategic modernization ensures maximum data sovereignty and carrier-grade network resilience while achieving better network economics.

Advancing to 400G IPoDWDM

To reliably meet increasing demands for scalability and future readiness, eww ITandTEL moved beyond traditional, siloed optical systems. The operator collapsed its IP and optical layers into a unified IPoDWDM design, utilizing 400G ZR+ coherent transceivers, effectively eliminating the need for external transponders and standalone optical shelves to reduce both physical footprint and power consumption.

This transition to native 400G support allows high-capacity wavelengths to be managed directly from the routing layer, which significantly streamlines provisioning, enhances fault isolation, and facilitates the seamless integration of 400G ZR+ coherent optics. The high-performance transmission model is optimized for massive data movement across the provider's Austrian fiber footprint, ensuring the deterministic stability required for its mission-critical enterprise and cloud services.

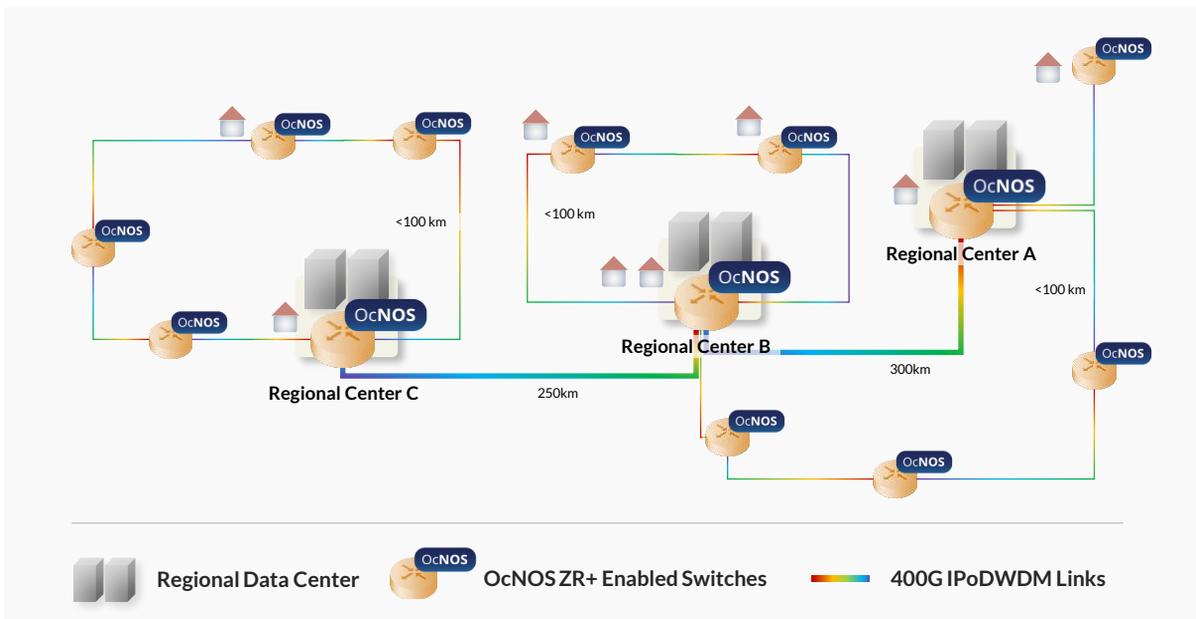
Why OcNOS

Following comprehensive Proof of Concept (PoC) testing with several vendors, eww ITandTEL selected IP Infusion for its technical excellence and ability to thrive in a complex, multi-vendor environment.

- **Seamless Interoperability:** OcNOS seamlessly integrated into eww ITandTEL's existing multi-vendor environment, a critical requirement for their diverse infrastructure.
- **Advanced Feature Set:** The solution supports critical protocols including MPLS, EVPN, and advanced integration with 400G ZR/ZR+ optics.
- **Carrier-Grade :** OcNOS demonstrated high stability and excellent compatibility during field deployment.
- **Transparent Economics:** The transparent licensing and cost model eliminate the high overhead of traditional vendor subscriptions.

Deployment Architecture

The new architecture utilizes **OcNOS-SP-PLUS** running on a selection of whitebox platforms including **UfiSpace S9600-56DX** (100/400G Open Switch), **UfiSpace S9510-28DC** (25/100/400G Open Switch), and **Edgecore AS7946-30XB** (25/100/400G Open Switch). The disaggregated architecture decouples the control plane from the physical switching layer, allowing eww ITandTEL to scale capacity across its Austrian fiber footprint while eliminating legacy vendor lock-in and high-overhead chassis systems.



eww ITandTEL IPoDWDM Backbone Modernization Reference Topology

To manage this 400G capacity with carrier-grade precision, the architecture integrates a robust suite of Layer 2 and Layer 3 protocols. The deployment leverages **MPLS** for efficient backbone label switching and high-performance data transmission. Simultaneously, **EVPN** provides a scalable, multi-tenant control plane that ensures seamless interoperability with the provider's existing heterogeneous infrastructure.

Strategic Impact

The shift to open networking has secured a long-term path for growth and regional leadership. By utilizing resources more efficiently, eww ITandTEL has reduced operational costs and increased overall network performance.

This investment ensures that businesses across Austria continue to have access to high-capacity, sovereign digital infrastructure. OcNOS platform provides the flexibility needed to meet future requirements without the need for costly, disruptive redesigns.



Christoph Ehmayer
Team Lead Network/System
Engineer of eww ITandTEL

“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.”



Roland Neumayr
Head of Network/Datacenter,
eww ITandTEL

“By adopting open networking, we’re ensuring that our customers benefit from a network that is both faster and strategically prepared for the future.”

Contact for More Information:

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

ABOUT IP INFUSION

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IP Infusion is a leading provider of open networking software and solutions for carriers, cloud service providers, and data centers. Our OcNOS® operating system enables network operators to disaggregate their networks to accelerate innovation, streamline operations, and reduce Total Cost of Ownership (TCO). 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>

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