

Voyager

An open approach for transport, switching and routing

The need for more scalable and cost-effective data center interconnect (DCI) infrastructure has never been greater than today. An open approach enables any vendor to contribute new hardware and software to a solution, helping you rise to this challenge.

The highest-performing networking technologies in terms of bandwidth and reach are still fiber-based technologies. Voyager is the industry's first open packet optical platform combining dense wavelength division multiplexing (DWDM) technology with switching and routing functionality. By unbundling hardware and software, each component can advance independently and deliver even more bandwidth with greater cost efficiency. Leveraging state-of-the-art open packet-optical technology, the Voyager platform ensures a faster time to market and a lower barrier of entry for new technologies, helping you to move more quickly toward a more open and connected world.



Your benefits

✓ **Fully open and SDN-programmable**

Bringing the Linux networking model to packet optical networks to expand data center automation and integration

✓ **Versatile DWDM interfaces**

Software-defined coherent 200G DWDM optics for optimizing capacity vs. reach trade-offs

✓ **Bring your own plug**

Selecting your own pluggable optics for each of the completely open QSFP28 client ports

✓ **Network management integration**

Fully integrated into ADVA's open optical-layer FSP Network Manager for traditional management architectures

✓ **Advanced switching and routing**

Complemented by a high-capacity Layer 2 forwarding engine and Layer 3 routing capabilities

✓ **Proven professional services**

Supported by our service excellence for complete peace of mind

High-level specifications

Chassis and environmental

- Dimensions (WxDxH):
17.32"x19.97" x 1.73" /
439mm x 507mm x 44mm
- Flexible depth rail kit (36-42")
- Operating temperature:
0°C to 40°C / 32°F to 104°F
- Humidity:
0% to 85% non-condensing

Management interfaces

- REST API for any REST-compatible browser
- ADVA FSP Network and Service Manager
- Off-the-shelf support for standard automation tools
- Support for SNMP, Syslog, SFlow, etc.

Coherent DWDM interfaces

- Based on Acacia AC400
- Four ports with up to 200 Gbit/s each
- Native 100GbE support – two interfaces per line side port
- C-band tunable transmitter
- Soft-decision FEC

Service interfaces

- 12 ports with up to 100 Gbit/s (1x 100GbE, 2x 50GbE, 4x 25GbE, 1x 40GbE or 4x 10GbE each)
- LR4 and CWDM4 (DAC cables supported)
- RJ45 OOB, RJ45 console, Type-A USB

Layer 2 forwarding engine

- Based on Broadcom Tomahawk BCM56962
- 2.0 Tbit/s switching throughput per RFC2544
- 25G SerDes can be run at 10G
- PCIe Gen2 x 4 lane control interface

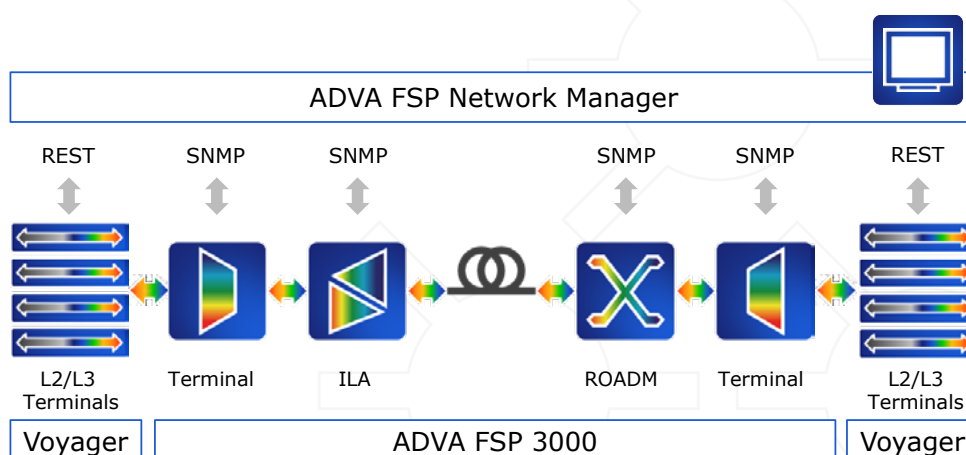
Software architecture

- Leverages the industry's only open L2/L3 NOS based on Linux
- Drive cost efficiencies by bringing the optical and IP worlds into a single box
- Full L1/L2/L3 protocol support stack (BGP, OSPF, EVPN, VXLAN, ...)

Applications in your network

Open data center interconnect with multi-layer capabilities in one box

- Single physical aggregation point combining DWDM transport, switching and routing technology for the emerging world of disaggregated optical networking
- Leverages the open software-driven Cumulus Linux platform running on commodity white box hardware
- Essential component of the Open Optical Packet Transport effort, a project group of the Telecom Infra Project (TIP) inspired by Facebook
- Professional services by ADVA Optical Networking allowing for ease of purchase, commissioning, operations and maintenance of Voyager



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CUMULUS

ADVATM
Optical Networking