

DWDM Interoperability Matrix

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DWDM Information

The following table provides details on Dense Wavelength-Division Multiplexing (DWDM) support. The products have been through system verification tests.

Cisco supports all WDM networking systems that are compliant with Fibre Channel standards for distance extension and are expected to work with Cisco MDS 9000 Series switches.

Table 1: DWDM Support

Vendor	Type	Data Rate (Gbps)	MDS Model
Cisco	ONS 15454, NCS 2000	4, 8, 10, 16, 32	MDS 9xxx
Adtran/ADVA	FSP2000, FSP3000		

Note Extended link-initialization times, even greater than 1 hour, may occur at 32G speed when using Cisco MDS 32G capable Fibre Channel interfaces with ADVA FSP 3000 ports with Clock Data Recovery(CDR). Links operate normally once established. Customers experiencing this behavior should contact Cisco TAC for recommended configuration guidance. This problem does not occur on Cisco MDS 64G capable Fibre Channel interfaces.

Recommendations:

- FEC on Cisco MDS 9000 Series switches should be disabled on 16 Gbps links.
- Ensure that enough buffer credits are configured on MDS ports to cover the distance for the specific frame size.

- Use logical link bundling via port channels across DWDM links even in case of different path lengths. The superior technology of port channels to any other logical bundling solution in the industry makes this possible and provides the benefit of higher reliability without impacting FSPF routing decisions.
- Check with your DWDM vendor for specific configurations and setting, specifically for NOS/LOS propagation.
- Enable port-tracking on Cisco MDS 9000 Series switches.