



## CHAPTER 7

# Configuring Dense Wavelength Division Multiplexing

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## About DWDM

Dense Wavelength-Division Multiplexing (DWDM) multiplexes multiple optical carrier signals on a single optical fiber. DWDM uses different wavelengths to carry various signals.

To establish a DWDM link, both ends of an Inter Switch Link (ISL) need to be connected with DWDM SFPs (small form-factor pluggable) at each end of the link. To identify a DWDM link, Fabric Manager discovers the connector type on the Fiber Channel (FC) ports. If the ISL link is associated with the FC ports at each end, then the FC port uses DWDM SFP to connect the links.

Fabric Manager Server discovers FC ports with DWDM SFPs and the ISLs associated with the FC ports. The Fabric Manager Client displays ISL with DWDM attribute on the topology map.



### Note

The Fabric Shortest Path First (FSPF) database only displays an ISL link, which is connected with DWDM SFPs at both ends.

## Configuring X2 DWDM Transceiver Frequency

To configure X2 DWDM transceiver frequency for a module, follow these steps:

	Command	Purpose
Step 1	switch# <b>config t</b>	Enters configuration mode.

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	Command	Purpose
Step 2	<code>switch(config)# module 1 transceiver-frequency x2-eth</code>	Configures the link to function as X2 Ethernet.
	<code>switch(config)# module 1 transceiver-frequency x2-fc</code>	Configures (default) the link to function as X2 FC.

**Note**

This feature is not supported in other than MDS 9134 modules. In MDS 9134 modules, the 10-Gigabit Ethernet ports must be in down state when you configure the X2 transceiver frequency.