



Dense Wavelength Division Multiplexing

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

Viewing DWDM Links

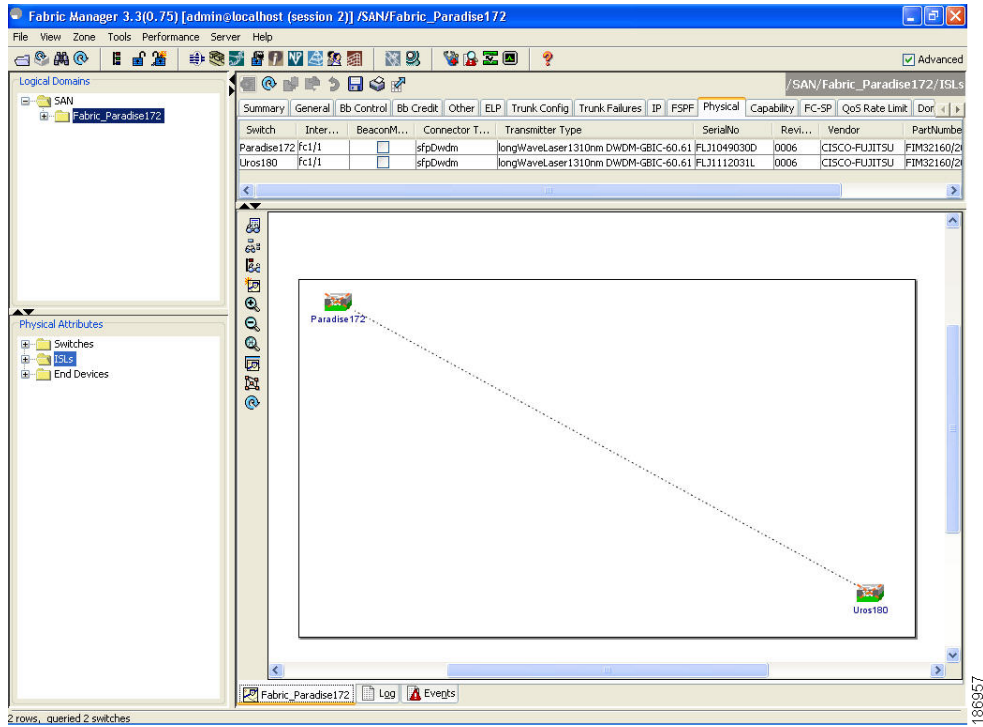
The Fabric Manager Client displays DWDM links with “dash-dash” pattern. The tooltip for the link displays “DWDM” to indicate its link type.

To view the DWDM link, follow these steps:

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- Step 1** Select the switch in the Logical Domain region.
 - Step 2** Select ISL in the Physical Attributes region.
The Information pane displays the ISL’s information.
 - Step 3** Click the **Physical** tab.
You see the ISL in the Information pane as shown in [Figure 33-1](#).

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Figure 33-1 Fabric Manager with ISL Link



Step 4 The ISL's Physical table displays the connector type as "sfpDwdm" as shown in [Figure 33-2](#).

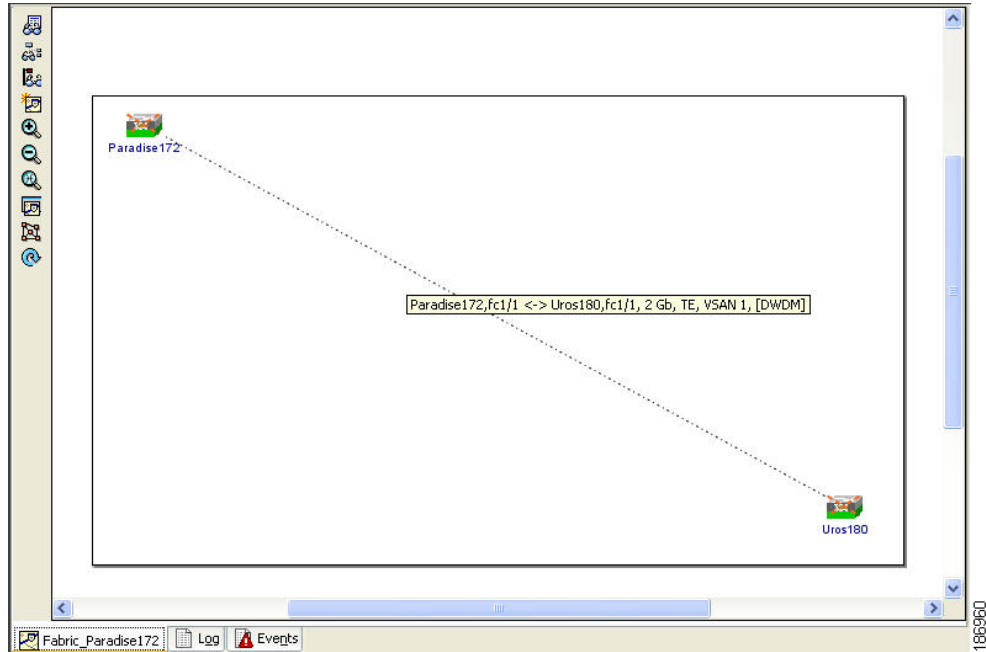
Figure 33-2 Connector Type Displayed as "sfpDwdm"

Switch	Inter...	BeaconM...	Connector T...	Transmitter Type	SerialNo	Revi...	Vendor	PartNumbe
Paradise172	Fc1/1	<input type="checkbox"/>	sfpDwdm	longWaveLaser1310nm DWDM-GBIC-60.61	FL31049030D	0006	CISCO-FUJITSU	FIM32160/2
Uros180	Fc1/1	<input type="checkbox"/>	sfpDwdm	longWaveLaser1310nm DWDM-GBIC-60.61	FL31112031L	0006	CISCO-FUJITSU	FIM32160/2

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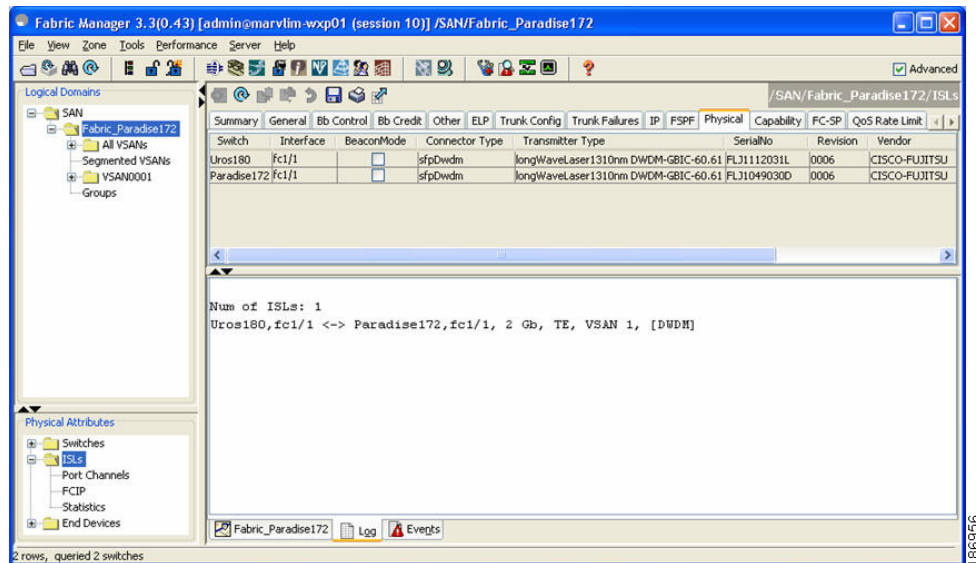
- Step 5** Move the mouse over the link to see the tooltip as DWDM indicating the link type as shown in Figure 33-3.

Figure 33-3 Tooltip Showing DWDM



- Step 6** Perform a Dump Discovery of ISL to list all ISLs. DWDM links are listed with “[DWDM]” as shown in Figure 33-4.

Figure 33-4 ISL List Displayed in the Information Pane



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