Device-Specific Information

This section contains:

Interfaces on Cisco Access Servers

By default, serial interfaces on Cisco Access Servers are *not* managed by DFM. Although Access Servers are classified as Routers, and router interfaces are normally managed by DFM, Access Server serial interfaces are not managed because of their sheer number (managing all of them might cause performance problems).

Cisco Optical Network Switch (ONS) 15540

This section contains:

How the ONS 15540 is Displayed by DFM

The ONS 15540 is displayed differently depending on which DFM console you are using.

- In the Monitoring and Administration Consoles, the ONS 15540 appears under "Switches."
- In the Polling and Thresholds Console, the ONS 15540 appears under "Optical Switches."

The following table describes how ONS 15540 components appear in the DFM GUI. For information on the faults supported for each of these components, see the "Faults Supported on the ONS 15540" section on page D-3.

Table D-1 ONS Components and Display

ONS 15540 Component	Display
ONS 15540 (name or IP address) Switches (in Monitoring/Admin Consoles)	Optical Switches (in Polling and Thresholds Console)
Chassis	Chassis
MUX/DEMUX Motherboard and Daughter cards	Card
Line Cards	Cards
Transponders in Line Cards	Card
Fans	Fan
Switch Card Redundancy Controller (SRC)	Processor (utilization), Card (Status)
Memory	Memory
Client Interfaces (GE, 10GE, FC, FICON, ESCON, SONET)	Port[1]
Wave Interfaces	Port[1]
Wavepatch Interfaces	Port[1]
Filter Interfaces	Port[1]

Table D-1 ONS Components and Display (continued)

ONS 15540 Component	Display
WDM Interfaces	Port[1]
Management Interfaces	Interface[2]

1. DFM manages all ONS 15540 ports by default. This is not the normal default behavior for DFM; normally, ports are unmanaged. DFM manages all ONS 15540 ports by default because DFM manages all interfaces by default and DFM classifies ONS 15540 interfaces as ports.
2. Fast Ethernet interfaces associated with CPU cards that have been configured with the same IP addresses are modeled as either (a) FE on active CPU card: interface (with associated IP address); or (b) FE on standby CPU card: port (with no associated IP address). Fast Ethernet interfaces associated with CPU cards that have been configured with different IP addresses are modeled as interfaces (with associated IP addresses) for both CPU cards.

CPU Card Redundancy Behavior on the ONS 15540

Because of inherent hardware redundancy on the ONS 15540, standby CPU cards may be displayed as DOWN because there is no card STANDBY state in DFM.

Faults Supported on the ONS 15540

The following faults are supported on the ONS 15540. For information on which ONS 15540 components map to these DFM classes, see the "How the ONS 15540 is Displayed by DFM" section on page D-2.

Table D-2 Supported Faults

DFM Display	Compound	Symptom
ONS 15540 (name or IP address)	n/a	DiscoveryError
	OperationalException	Unresponsive
Card	OperationalException	OperationallyDown
Fan	TemperatureException	StateNotNormal
Processor (SRC)	PerformanceException	HighUtilization

Table D-2 Supported Faults (continued)

DFM Display	Compound	Symptom
Memory	ResourceException	HighBufferUtilization InsufficientFreeMemory ExcessiveFragmentation
Port	OperationalException	OperationallyDown
Interface	OperationalException	HighCollisionRate