



CHAPTER 11

InfiniBand Device Management Tasks

Device Management features are available only on I/O chassis (Cisco SFS 3001 and Cisco SFS 3012). These topics describe the InfiniBand device management menu tasks for Element Manager:

- [Viewing IOUs, page 11-1](#)
- [Viewing IOCs, page 11-2](#)
- [Viewing IOC Services, page 11-3](#)



Note

See Appendix A for information to familiarize you with the InfiniBand technology. For hardware-specific information, consult the relevant hardware documentation.

Viewing IOUs

To view the I/O Units (IOUs) on your device, follow these steps:

- Step 1** From the InfiniBand menu, choose **Device Management (tabular format)**.
The Device Manager window opens.
- Step 2** Click the **IOU** tab.
IOU details appear in the right pane. [Table 11-1](#) describes the fields in this pane.

Table 11-1 *IOU Tab Field Descriptions Pane*

Field	Description
Change ID	Cumulative number of changes to the controller list since the device last booted.
Max Controllers	Maximum number of controllers that your device can support.
Diag Device ID	All device IDs appear as 1.
Option ROM	Indicates the presence or absence of Option ROM.
Controllers	Lists each slot on your device that can potentially contain a controller and identifies whether or not a controller resides in that slot.

Viewing IOCs

To view the I/O controllers (IOCs) on your device, follow these steps:

- Step 1** From the InfiniBand menu, choose **Device Management (tabular format)**.
The Device Manager window opens.
- Step 2** Click the **IOC** tab.
A table of IOC details appears. [Table 11-2](#) describes the fields in this display.

Table 11-2 *IOCs Display Field Descriptions*

Field	Description
GUID	GUID of the controller.
Vendor ID	Organization Unique Identifier (OUI) of the vendor.
Device ID	Vendor-assigned device identifier.
Device Version	Vendor-assigned device version.
Subsystem Vendor ID	Vendor-assigned subsystem vendor identifier
Subsystem ID	Vendor-assigned subsystem identifier.
IOClass	I/O class that the IOC supports.
IOSubclass	Subclass of the I/O class protocol of the IOC.
Protocol	Standard protocol definition that the IOC supports.
Protocol Version	Protocol version that the IOC supports.
Send Msg Queue Depth	Maximum number of messages that the send message queue supports.
RDMA Read Queue Depth	Maximum depth of the per-channel RDMA Read Queue.
Send Msg Size	Maximum size, in bytes, of send messages.
RDMA transfer size	Maximum size, in bytes, of outbound RDMA transfers that the IOC initiates.
Controller Op Cap	Integer value (from 8 cumulative bits) between 1 and 255 that represents the operation type(s) that the IOC supports. • Bit 0–ST; Send Messages To IOCs • Bit 1–SF; Send Messages From IOCs • Bit 2–RT; RDMA Read Requests To IOCs • Bit 3–RF; RDMA Read Requests From IOCs • Bit 4–WT; RDMA Write Requests To IOCs • Bit 5–WF; RDMA Write Requests From IOCs • Bit 6–AT; Atomic Operations To IOCs • Bit 7–AF; Atomic Operations From IOCs
Service Entries	Number of services that the IOC provides.

Viewing IOC Services

To view the IOC services on your device, follow these steps:

Step 1 From the InfiniBand menu, choose **Device Management (tabular format)**.

Step 2 The Device Manager window opens.

Step 3 Click the **IOC Services** tab.

A table of IOC Services details appears. [Table 11-3](#) describes the fields in this table.

Table 11-3 *IOC Services Table Field Descriptions*

Field	Description
IOC GUID	GUID of the node that provides the service.
Service Name	ASCII identifier of the service.
Service ID	Numeric identifier that nodes use to call the service.

