



## Managing the System and Components

The Fabric Manager allows you to configure and monitor modules on multiple Cisco 9000 switches. The Device Manager allows you to configure and monitor modules on a single Cisco 9000 switch.



Note

For information about configuring the chassis and its components using the command-line interface (CLI), refer to the *Cisco 9000 Family Configuration Guide*.

This chapter describes how to configure the chassis and its components using the Fabric Manager and Device Manager.

This chapter includes the following sections:

- [Managing the Switch System, page 9-1](#)
- [Managing Inventory Information, page 9-4](#)
- [Viewing Redundancy Information, page 9-5](#)
- [Managing Card Attributes, page 9-6](#)
- [Managing Temperature Sensor Information, page 9-7](#)
- [Managing Power Supplies, page 9-7](#)

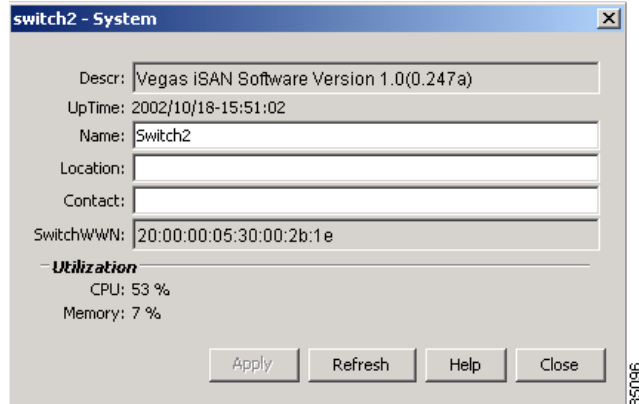
### Managing the Switch System

This section describes how to obtain general information about a switch system. It includes the following topics:

- [Viewing System Attributes, page 9-1](#)
- [Viewing Running Processes, page 9-3](#)
- [Viewing Flash File Information, page 9-4](#)

### Viewing System Attributes

To manage system attributes from the Fabric Manager, choose **Physical > System > Descr** on the menu tree. To manage system attributes from the Device Manager, choose **System** from the Admin menu. The Fabric Manager dialog box displays system attributes for multiple switches. The dialog box from the Device Manager ([Figure 9-1](#)) displays system attributes for a single switch.

*Send documentation comments to***Figure 9-1** System Dialog Box

Both dialog boxes show the display-only information described in [Table 9-1](#).

**Table 9-1** *Physical > System—Display-Only Attributes*

Display-Only Attribute	Description
Descr	Displays a text description of the switch, which includes the switch model and software release version.
Uptime	Displays (in hundredths of a second) the date and time since the network management portion of the switch was last reinitialized.
Name	Displays the unique world wide name (WWN) of this fabric element.
Location	
Contact	
SwitchWWN	

[Table 9-2](#) describes the configurable system attributes for the chassis.

**Table 9-2** *Physical > System—Configurable Attributes*

Configurable Attribute	Description
Name	Specifies the name assigned to this node, usually the node's fully qualified domain name.
Location	Specifies the physical location of this node, for example, "telephone closet, 3rd floor."
Contact	Specifies the e-mail address of the person responsible for this node.

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## Viewing Running Processes

To view information about the processes currently running on a switch, choose **Running Processes** from the Admin menu. You see the dialog box shown in [Figure 9-2](#).

**Figure 9-2** Running Processes

ProcessId	Name	MemAllocated ...	CPU Time (us)	Priority
1	init	17676	5932938	Unknown...
2	keventd	0	396	Unknown...
3	ksoftirqd_C...	0	109965	Unknown...
4	kswapd	0	2	Unknown...
5	bdflush	0	4	Unknown...
6	kupdated	0	601880	Unknown...
101	kjournald	0	3569	Unknown...
104	kjournald	0	3428	Unknown...
147	portmap	21676	521	Unknown...
174	kjournald	0	90850	Unknown...
178	kjournald	0	62	Unknown...
359	httpd	97676	1276620	Unknown...
369	sysmgr	476968	5363935	Unknown...
374	xinetd	105428	51164	Unknown...
376	httpd	134540	2016	Unknown...
377	httpd	122252	1473	Unknown...
393	httpd	134540	2208	Unknown...
394	httpd	122252	1460	Unknown...
407	httpd	122252	18081	Unknown...
501	mping-thread	0	59	Unknown...
662	syslogd	83360	2267010	Unknown...
667	klogd	115072	12436	Unknown...
668	sdwrapd	6140	8060	Unknown...
669	platform	167392	105450502	Unknown...
730	sso-polling_...	0	4	Unknown...
742	Fro-stats-t...	0	1094584	Unknown...
749	bel_mts_kt...	0	41	Unknown...

85 row(s)

This dialog box shows the display-only attributes described in [Table 9-3](#).

**Table 9-3** Running Processes—Display-Only Attributes

Display-Only Attribute	Description
ProcessId	A unique numeric identifier assigned to each process by the system when the process is started.
Name	The name of the application that generated the process.
MemAllocated	The number of bytes allocated by the system for the process.
CPU Time (us)	The amount of CPU time used by the process.
Priority	The priority of the process.

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## Viewing Flash File Information

To view information about the files currently stored in flash memory on the switch, choose **Flash Files** from the Admin menu. You see the dialog box shown in [Figure 9-3](#).

**Figure 9-3** Flash Files

The screenshot shows a dialog box titled '172.22.94.250 - Flash Files'. It contains a table with two columns: 'Name' and 'Size'. The table lists several files, including .ssh/known\_hosts, .ssh/known\_hosts2, and various boot and isan files. Below the table are buttons for 'Refresh', 'Help', and 'Close'. The status bar at the bottom indicates '8 row(s)'.

Name	Size
.ssh/known_hosts	662
.ssh/known_hosts2	0
boot-253b	14481408
isan-253b	19109607
boot-256	14538240
isan-256	19300102
boot-260	14595584
isan-260	19342876

This dialog box shows the display-only attributes described in [Table 9-4](#).

**Table 9-4** Flash Files—Display-Only Attributes

Display-Only Attribute	Description
Name	The file name stored in flash memory.
Size	The amount of bytes used by the file in flash memory.

## Managing Inventory Information

To manage inventory attributes from the Fabric Manager, choose **Physical > Inventory** on the menu tree. To manage inventory attributes from the Device Manager, choose **Inventory** from the Physical menu.

The Fabric Manager dialog box displays system attributes for multiple switches. The dialog box from the Device Manager displays system attributes for a single switch. Both dialog boxes show the display-only information described in [Table 9-5](#).

**Table 9-5** Physical > Inventory—Read-Only Attributes

Display-Only Attribute	Description
Switch	Displays the switch ID. This attribute is only displayed from the Fabric Manager.
Name	Displays the name of the chassis.
SerialNum	Displays the serial number of the chassis.
MfgName	Displays the name of the chassis manufacturer.
ModelName	Displays the vendor-specified model name of the chassis.

*Send documentation comments to***Table 9-5** *Physical > Inventory—Read-Only Attributes (continued)*

Display-Only Attribute	Description
HardwareRev	Displays the vendor-specified hardware revision for the card.
FirmwareRev	Displays the vendor-specified firmware revision for the card.
SoftwareRev	Displays the vendor-specified software revision for the card.

[Table 9-6](#) describes the configurable inventory attributes for the card.

**Table 9-6** *Physical > Inventory—Configurable Attributes*

Configurable Attribute	Description
Alias	Specifies the alias of the module.
AssetID	Specifies the asset-tracking ID of the module.

## Viewing Redundancy Information

To monitor redundancy from the Fabric Manager, choose **Physical > Redundancy** on the menu tree. To monitor redundancy from the Device Manager, choose **Redundancy** from the Physical menu.

The Fabric Manager dialog box displays information for multiple switches. The dialog box from the Device Manager displays attributes for a single switch. Both dialog boxes show the display-only information described in [Table 9-7](#).

**Table 9-7** *Physical > Redundancy—Display-Only Attributes*

Display-Only Attribute	Description
Switch	Displays the switch ID. This attribute is only displayed from the Fabric Manager.
SlotID	Displays the slot number of the redundant module.
UnitState	Displays the operational state of the redundant module.
PeerSlotId	Displays the identifier of the connected (redundant) module.
PeerUnitState	Displays the operational state of the connected (redundant) module.
DuplexMode	Displays if duplex mode is enabled (True) or not (False).
ManualSwactInhibit	Displays if the ManualSwactInhibit attribute is enabled (True) or not (False).

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## Managing Card Attributes

To manage card status attributes from the Fabric Manager, choose **Physical > Cards** on the menu tree. To manage card status attributes from the Device Manager, choose **Cards** from the Physical menu.

The dialog box from the Fabric Manager displays card attributes for multiple switches. The dialog box from the Device Manager view displays attributes for a single switch. Both dialog boxes show the display-only information described in [Table 9-8](#).

**Table 9-8** *Physical > Cards —Display-Only Attributes*

Display-Only Attribute	Description
Switch	Displays the switch ID. This attribute is only displayed from the Fabric Manager.
Card	Displays the card ID.
Module—Oper	Displays the card's current operating state.
Module—ResetReason	Displays the reason for the last card reset.
Module—StatusLastChangeTime	Displays the time of the last status change.
Power—Oper	Displays the operating state of the card's power.
Power—Current	Displays the current supplied by the card (positive value) or current required to operate the card (negative value).

[Table 9-9](#) describes the configurable status attributes for the card.

**Table 9-9** *Physical > Cards —Configurable Attributes*

Configurable Attribute	Description
Module—Admin	Enables or disables the card administratively. Valid values are: <ul style="list-style-type: none"> <li>enabled—Enables the card.</li> <li>disabled—Disables the card.</li> <li>reset—Resets the card.</li> <li>outOfServiceAdmin—Puts the card out of service.</li> </ul>
Power—Admin	Enables or disables the card's power administratively. Valid values are: <ul style="list-style-type: none"> <li>on—The card's power is on.</li> <li>off—The card's power is off.</li> <li>inlineAuto</li> <li>inlineOn</li> </ul>

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## Managing Temperature Sensor Information

To monitor sensor temperature attributes from the Fabric Manager, choose **Physical > Temperature Sensors** on the menu tree. To monitor sensor attributes from the Device Manager, choose **Temperature Sensors** from the Physical menu.

The dialog box from the Fabric Manager displays sensor temperature attributes for multiple switches. The Sensors dialog box from the Device Manager displays sensor temperature attributes for a single switch. Both dialog boxes show the display-only information described in [Table 9-10](#).

**Table 9-10** *Physical > Sensors —Display-Only Attributes*

Display-Only Attribute	Description
Switch	Displays the switch ID. This attribute is only displayed from the Fabric Manager.
Name	Displays a text description of the sensor that identifies the manufacturer's name, and version or model of the sensor.
Status	Displays the current operational status of the sensor.
Temp. (Celsius): Value	Displays the current temperature (in Celsius) reported by the sensor.
Temp. (Celsius): Threshold	Displays the temperature threshold for the sensor.
Exceeded	Displays the relation between the sensor value and the threshold value, required to trigger the alarm.
Severity	Displays the severity of this threshold.
LastChecked	Displays the time elapsed since the sensor was last checked.
UpdateRate(s)	Displays the rate at which the sensor reports the temperature.

[Table 9-11](#) shows the configurable sensor attributes.

**Table 9-11** *Physical > Sensors —Configurable Attributes*

Configurable Attribute	Description
EnableNotification	Displays the result of the most recent evaluation of the threshold. To enable notification when a threshold has been exceeded, check the NotificationEnable check box.

## Managing Power Supplies

To manage power supply power attributes from the Fabric Manager, choose **Physical > Power Supplies** on the menu tree. To manage power supply power attributes from the Device Manager, choose **Power Supplies** from the Physical menu.

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The dialog box from the Fabric Manager displays power supply power attributes for multiple switches. The dialog box from the Device Manager displays power supply power attributes for a single switch. Both dialog boxes show the display-only information described in [Table 9-12](#).

**Table 9-12** *Physical > Power Supplies—Display-Only Attributes*

Display-Only Attribute	Description
Switch	Displays the switch ID. This attribute is only displayed from the Fabric Manager.
OperStatus	Displays the current operating state of the power supply.
Units	Displays the units of primary supply. For example, one 1000W power supply could deliver 100A at 10 VDC. In this case, the value of Units would be 10 VDC.
Current	Displays the current supplied by the power supply (in positive values) or the current required to operate the power supply (in negative values).
TotalAvailableCurrent	Displays the total current available for power supply usage. <ul style="list-style-type: none"> <li>• When the PowerRedundancyMode is set to redundant, the total current available is that available from the lesser of the two power supplies.</li> <li>• When the PowerRedundancyMode is set to combined, the total current available is the sum of the capacity of all operating power supplies.</li> </ul>
TotalDrawnCurrent	Displays the total current drawn by powered-on power supplies.



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Table 9-13 describes the configurable power attributes for the power supply.

**Table 9-13** *Physical > Power Supplies—Configurable Attributes*

Configurable Attribute	Description
AdminStatus	<p>Specifies the desired state of the power supply. Valid values are:</p> <ul style="list-style-type: none"> <li>• on—The power supply is administratively up.</li> <li>• off—The power supply is administratively down.</li> <li>• inlineAuto</li> <li>• inlineOn</li> </ul>
RedundancyMode	<p>Specifies the redundancy mode. Valid values are:</p> <ul style="list-style-type: none"> <li>• notsupported—The power supplies are not redundant.</li> <li>• redundant—The power supplies are redundant.</li> <li>• combined</li> </ul>

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