Managing the Switch

This chapter describes how to manage the Cisco SFS 7000P and SFS 7000D Server Switches hardware. The following sections appear in this chapter:

- LEDs, page 5-1
- Managing the System with Element Manager, page 5-4
- Displaying System Information, page 5-6

LEDs

The Cisco SFS 7000P and SFS 7000D Server Switches have the following types of LED indicators:

- Chassis Status LEDs, page 5-1
- InfiniBand Port LEDs, page 5-3
- Power Supply LEDs, page 5-3

Chassis Status LEDs

The front of the chassis has a single bi-color chassis status LED. The rear of the chassis has one green and one yellow chassis status LED that convey the identical information as the single chassis status LED in the front of the chassis. See Table 5-1 for information about interpreting the chassis status LED and see Figure 5-1 through Figure 5-4 for the locations of the chassis status LEDs.

Table 5-1 Interpreting the Chassis Status LED

Color	Indication
Off	No system power or LED failure.
Yellow (solid)	Operator intervention required. A system error was detected, such as a fan error, a POST failure, or a power supply failure. The **!** label (available on the back of the chassis) indicates a failure.
Yellow (blinking)	Initiated automatically during the LED test that follows the application of power (16 seconds).
Solid green	Indicates proper operation and no critical errors.

Figure 5-1 Front View of Cisco SFS 7000P Server Switch Showing Chassis Status LED

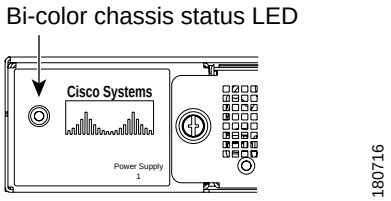


Figure 5-2 Front View of Cisco SFS 7000D Server Switch Showing Chassis Status LED

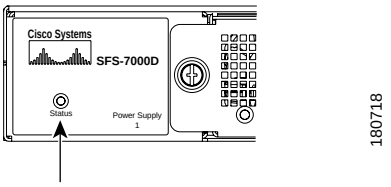


Figure 5-3 Rear View of Cisco SFS 7000P Server Switch Showing Chassis Status LEDs

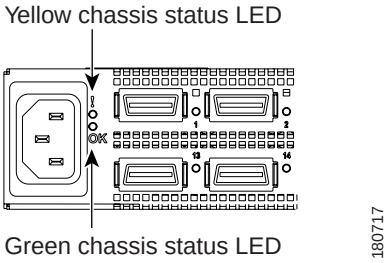
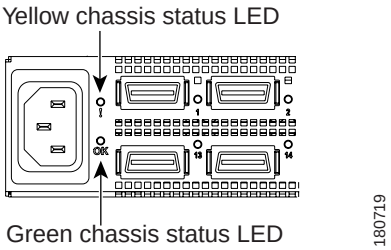


Figure 5-4 Rear View of Cisco SFS 7000D Server Switch Showing Chassis Status LEDs



InfiniBand Port LEDs

The InfiniBand port LED is located next to each InfiniBand port. The InfiniBand LED represents the logical link and the logical link activity. For InfiniBand port LED locations. See Figure 5-5 for the Cisco SFS 7000P Server Switch and Figure 5-6 for the Cisco SFS 7000D Server Switch.

Figure 5-5 InfiniBand Port LEDs Location for the Cisco SFS 7000P Server Switch

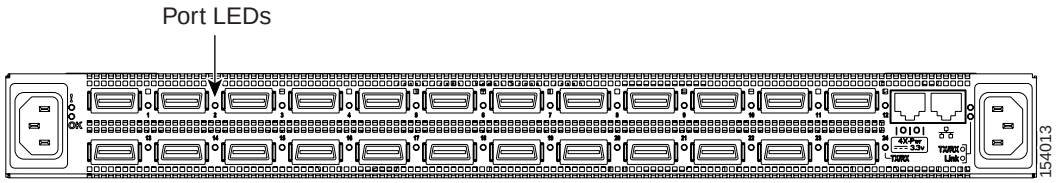


Figure 5-6 InfiniBand Port LEDs Location for the Cisco SFS 7000D Server Switch

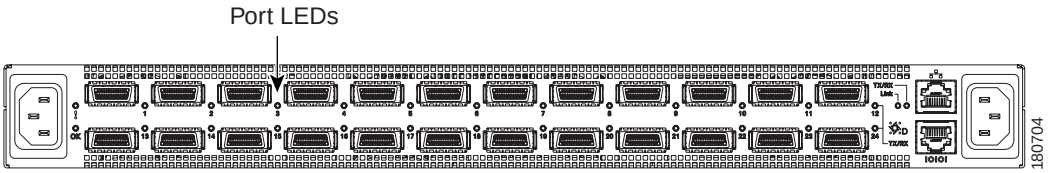


Table 5-2 describes the InfiniBand Port LED operation.

Table 5-2 InfiniBand Port LED

Color	Indication
Off	Logical link is not established.
Solid green	Logical link is established.
Blinking green	Logical link is established with activity.

Power Supply LEDs

Each power supply module contains a power supply and a fan. The power supply module LEDs are located on the bottom left corner of each power supply module. For the location of the LEDs, see Figure 5-7. For LED descriptions, see Table 5-3.

- The green LED is labeled with a DC symbol.
- The yellow LED is labeled with an exclamation point (!).

Figure 5-7 Power Supply and Fan LEDs Location

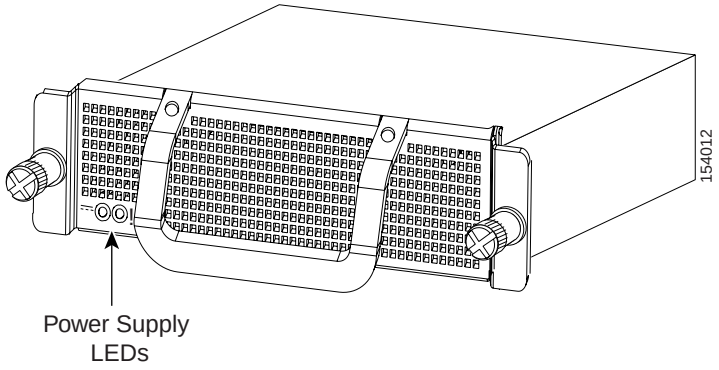


Table 5-3 Power Supply Module LEDs

Color	Indication
Green (off)	No DC input.
Green (solid)	AC connected, DC output OK.
Yellow (off)	No failure on the power supply.
Yellow (solid)	Operator intervention required. Failure detected within the power supply.

Managing the System with Element Manager

For information about installing the Element Manager, see the *Cisco SFS 7000 Series Product Family Element Manager User Guide*.

To view the Health Status window, perform the following steps:

Step 1 Launch the Element Manager.

Step 2 Select **Health** > **Status**. The Health Status window opens. (See Figure 5-8.)

Figure 5-8 Health Status Window

Using the Summary Tab

Use the Summary tab to view the status of the power, fans, and temperature sensors simultaneously. (See Figure 5-8.)

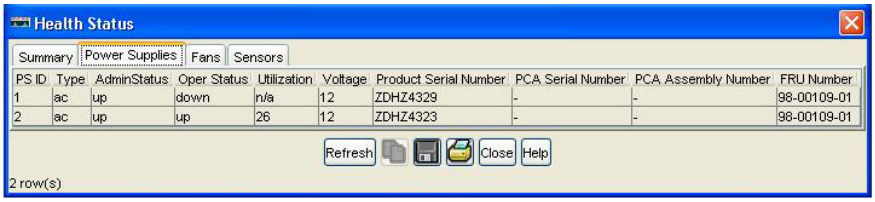
The Summary tab has the following fields:

- Power
  - A green check indicates that at least one power source is connected and functioning properly.
  - A red check indicates that the power supply AC is disconnected.
- Fans
  - A green check indicates that at least one fan is present and functions properly.
  - A red check indicates a fan failure.
- Sensors
  - A green check indicates that the system temperature is at an acceptable level.
  - A red check indicates a high-temperature warning.

Using the Power Supplies Tab

Use the **Power Supplies** tab to view the operating status of the power supplies. (See Figure 5-9.)

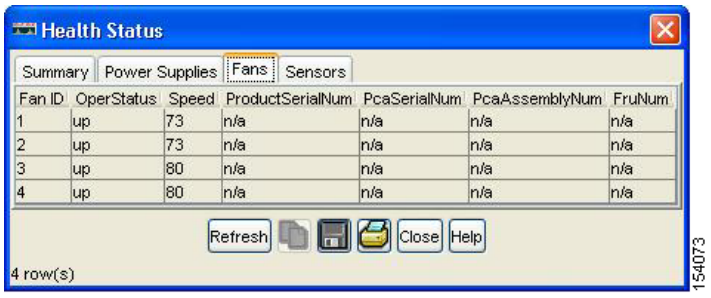
Figure 5-9 Health Status Power Supplies Window



Using the Fans Tab

Use the **Fans** tab to view the operating status of the fans. (See Figure 5-10.)

Figure 5-10 Health Status Fans Window



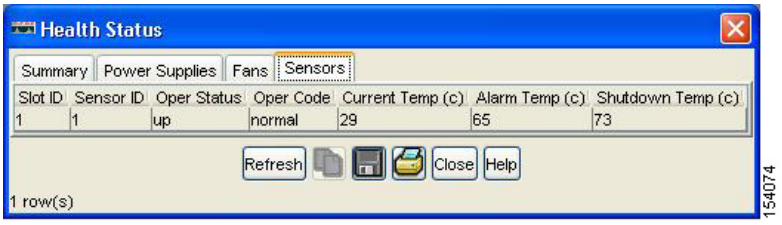
In the OperStatus field, a status of *up* indicates that the fan is operating correctly within the power supply module.

In the Speed field, the integer represents a percentage. The percentage changes based on the ambient temperature of the unit and increases as the temperature rises.

Using the Sensors Tab

Use the Sensors tab to view the operating status of the temperature sensor of the system. (See Figure 5-11.)

Figure 5-11 Health Status Sensors Window



In the OperStatus field, a status of *up* indicates that the sensor functions properly.

The temperature fields show temperatures in Celsius. The Current Temp field shows the current internal temperature. The Alarm Temp field shows the temperature at which the system goes above its internal temperature limit. The Shutdown Temp field shows the temperature at which the system powercycles. For operating and non-operating temperatures, see Table A-1 on page A-1.

Displaying System Information

You can use CLI commands to monitor the power supplies, fans, and sensors.

Displaying Power Supply Information

To display information about the power supply, enter the **show power-supply** command.

```
SFS-7000P# show power-supply
=================================================================
                    Power-supply Information
=================================================================
ps    type    oper-status   utilization   voltage
-----------------------------------------------------------------------------
1     AC      up            50            12
2     AC      up            50            12
=================================================================
                    Power-supply Seeprom
=================================================================
      product           pca               pca               fru
ps    serial-number     serial-number     number            number
-----------------------------------------------------------------
1     200000            820000             820000           1
2     200000            820000             820000           1
```

Displaying Fan Information

To display information about the fans, enter the **show fan** command.

An oper-status of up means that the fan is operating correctly within the power supply module.

In the **Speed** field, the integer represents a percentage. The percentage changes based on the ambient temperature of the unit and increases as the temperature rises.

```
SFS-7000P# show fan
================================================================================
                                Fan Information
================================================================================
fan   oper-status   speed(%)
--------------------------------------------------------------------------------
1     up            73
2     up            73
3     up            73
4     up            73
================================================================================
                                 Fan Seeprom
================================================================================
      product              pca                pca                fru

fan   serial-number       serial-number      number             number

--------------------------------------------------------------------------------
1

2

3

4
```

Displaying Sensor Information

To display information about the sensors, enter the **show sensor** command.

```
SFS-7000P# show sensor
================================================================================
                               Sensor Information
================================================================================
sensor oper-status oper-code  temperature(c)  alarm-temp(c)   shutdown-temp(c)
--------------------------------------------------------------------------------
1/1    up          normal     29              65              73
```

The temperature fields show temperatures in Celsius. The **Current Temp** field shows the current internal temperature. The **Alarm Temp** field shows the temperature at which the system goes above its internal temperature limit. The **Shutdown Temp** field shows the temperature at which the system power cycles. For operating and non-operating temperatures, see Table A-1 on page A-1.