

CHAPTER 1

Cisco Unified Videoconferencing 3545 System Chassis Overview

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About the Cisco Unified Videoconferencing 3545 System

The Cisco Unified Videoconferencing 3545 System is a high performance, multi-functional chassis that supports mix-and-match functionality. This highly configurable and scalable design provides maximum flexibility for configuring platforms to meet a wide variety of functional and performance application requirements.

The Cisco Unified Videoconferencing 3545 System consists of a number of embedded applications on blades that are inserted into the Cisco Unified Videoconferencing 3545 chassis.

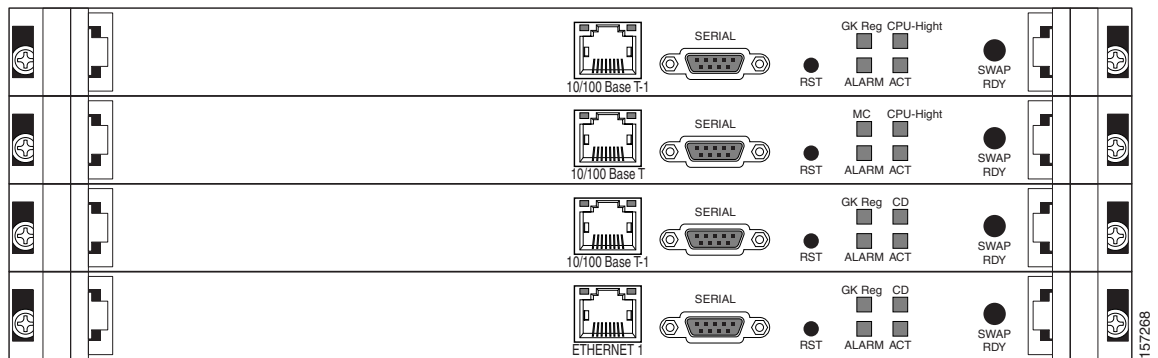
About the Cisco Unified Videoconferencing 3545 Chassis

The Cisco Unified Videoconferencing 3545 chassis is 3.5" (2U) high and can mount in a 19-inch rack. The chassis can accommodate a Cisco Cisco Unified Video conferencing 3545 module in each of its four slots. Each board receives power via the backplane.

There are four slots at the front and rear of the chassis. The front slots are used for the main device boards. The rear slots are used only by gateway Rear Transition Module (RTM) boards which allow a connection to the ISDN or serial network.

The chassis provides easy access for maintenance and board replacement.

Figure 1-1 Cisco Unified Videoconferencing 3545 Chassis Front View



About the Rear Transition Module

The rear panel of the Cisco Unified Videoconferencing 3545 chassis contains four slots for the insertion of Rear Transition Module (RTM) boards that connect to the chassis backplane. The RTM provides a Circuit Switch Network connection.

Viewing System Indicators

You can view system-level monitoring information by monitoring the LED indicators on the front of the Cisco Unified Videoconferencing 3545 chassis. The LEDs are connected to the chassis System Information Card (SIC).



Note

You can also monitor chassis functions remotely via the web user interface of the MCU or gateway installed in the top slot of the Cisco Unified Videoconferencing 3545 chassis. If you install a Cisco Unified Videoconferencing 3545 EMP Enhanced Media Processor in the top slot of the Cisco Unified Videoconferencing 3545 chassis, monitoring via the web is not available.

System Power Indication

The POWER LED lights green to indicate that the power supply is operating normally. Red indicates that one of the power supply units is malfunctioning.

System Alarm Indication

The ALARM LED lights green to indicate that the system is functioning normally. Red indicates that a system failure has been detected.

System Fan Indication

The FAN LED lights green to indicate that the fans are operating properly. Red indicates a fan failure.

System Temperature Indication

The TEMP LED lights green to indicate that the temperature inside the chassis is within the acceptable range. Red indicates overheating when the temperature reaches and/or passes the upper threshold.

Flashing green and red indicates that the temperature is close to the upper threshold. If the temperature falls below the lower threshold, the LED remains green. The LED flashes green to indicate a sensor malfunction. The upper and lower threshold levels are configurable in the web user interface of the MCU and gateway.

Normal System Startup LED Indications

This section describes the normal LED indications that you should see when the system starts up.

At startup, the normal system monitor LED indications are as follows:

- The POWER LED indicator lights green and remains green.
- The ALARM, FAN and TEMP LED indicators flash twice, alternating between red and green. When the platform initialization is complete, the LED indicators remain green.

Cisco Unified Videoconferencing 3545 Chassis Power Supply

The rear panel of the Cisco Unified Videoconferencing 3545 chassis contains dual power supply units, each with a power switch, an AC mains power connector and a safety fuse. The two PSUs use current sharing to provide redundancy—if one PSU fails, the second PSU can handle the operational load of the chassis until the failed unit is replaced. The PSUs are located to the left of the chassis rear panel., as shown in .

Each power supply has one LED indicator—green to indicate normal operation, red to indicate a malfunction.

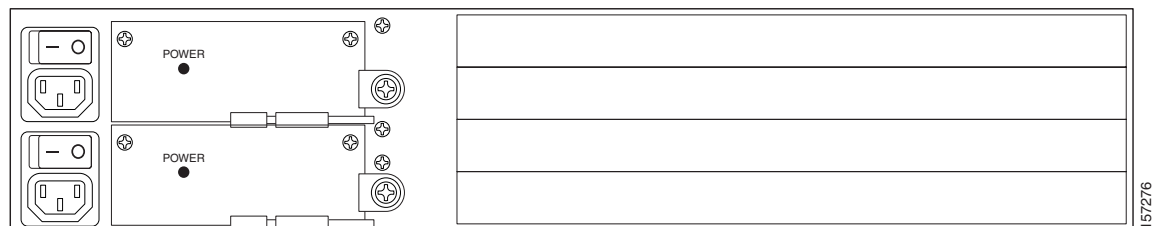
In normal operation, both PSUs display a lit green LED, and the front panel system monitoring POWER LED lights green.



Note

To enable PSU redundancy, connect both power inlets to a power source. If you connect only one power cable, the POWER LED on the chassis front panel and the LED indicator on the PSU not in use will both light red.

Figure 1-2 Cisco Unified Videoconferencing 3545 Chassis Power Supply



Replacing a Power Supply Unit

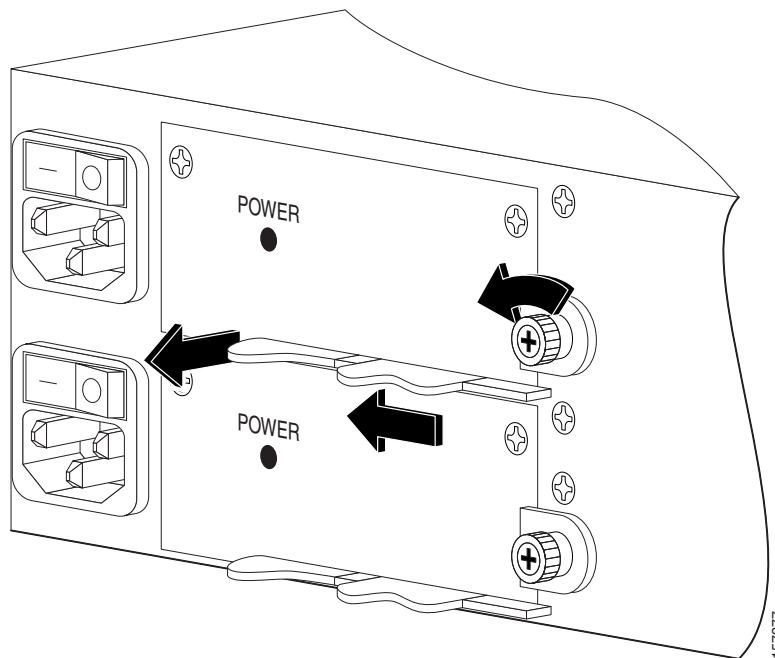
You can remove and replace each power supply unit, even while in operation (Hot Swap). The platform can continue to operate with a single PSU until the second PSU is replaced.

A lever is provided on each PSU to assist in the removal of each unit.

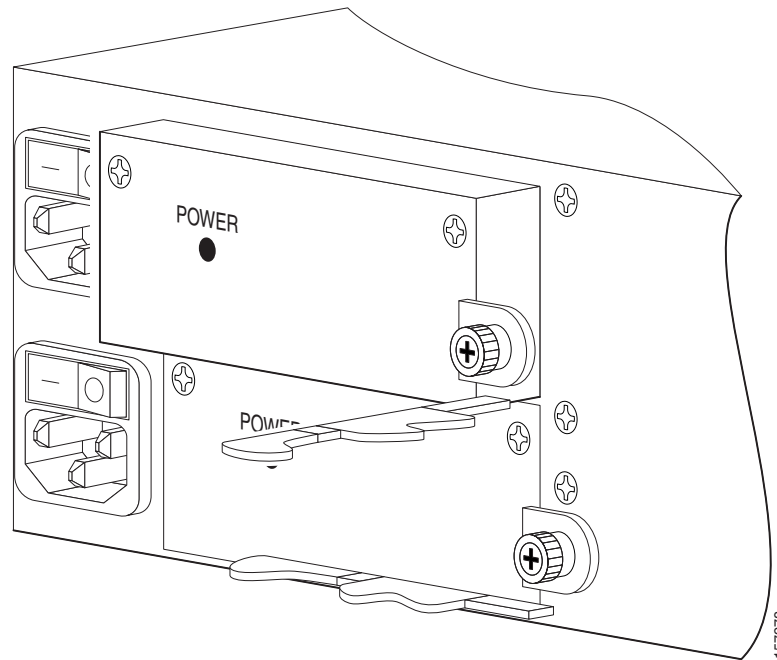
Procedure

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- Step 1** On the chassis rear panel, loosen the screw of the PSU you want to remove, as shown in .
- Step 2** Firmly grip the handle of the PSU you want to remove. Use your other hand to brace against the chassis and provide leverage.

Figure 1-3 Preparing to Remove a Power Supply Unit



- Step 3** Pull out the PSU slowly, as shown in .

Figure 1-4 Removing a Power Supply Unit

- Step 4** Insert a new PSU, sliding it into the connectors inside the PSU slot.
- Step 5** Press firmly on the new PSU to ensure that the connectors have engaged properly and that the outside of the PSU is in line with the chassis rear panel.
- Step 6** Check to see that the green LED lights up on the new PSU and on the chassis front panel.
- Step 7** Tighten the screw.

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