



## CHAPTER 2

# Cisco PGW 2200 Softswitch Platform Component Startup and Shutdown Procedures

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This chapter describes how to start and shut down the individual components of the Cisco PGW 2200 Softswitch platform.

The startup procedures for each component of the Cisco PGW 2200 Softswitch platform are included in the following sections:

- [Cisco PGW 2200 Softswitch Startup Procedures, page 2-2](#)
- [Cisco SS7 Interface Startup Procedure, page 2-3](#)
- [Cisco Switch Startup Procedure, page 2-4](#)

You might need to perform one of these startup procedures after completing one of the following operations:

- Changing the system configuration
- Upgrading the software
- Testing the system
- Troubleshooting alarms
- Resolving a problem



**Note**

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While considering these procedures, it is assumed that the component is correctly installed, configured, and provisioned according to the instructions provided in the relevant documentation.

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The shutdown procedure for each component of the Cisco PGW 2200 Softswitch platform is included in the following sections:

- [Cisco PGW 2200 Softswitch Shutdown Procedure, page 2-4](#)
- [Cisco SS7 Interface Shutdown Procedure, page 2-5](#)
- [Cisco Switch Shutdown Procedure, page 2-6](#)

# Cisco PGW 2200 Softswitch Startup Procedures

This section contains the hardware and software startup procedures for the Cisco PGW 2200 Softswitch.

## Starting the Cisco PGW 2200 Softswitch Hardware

The system switch of the Cisco PGW 2200 Softswitch is a rocker, momentary contact switch that functions as a standby device only. This switch controls the logic circuits that enable power module output.



**Note** The system switch for each Sun Netra platform is unique. See the documentation that is provided by Sun Microsystems for more information on your system.

To power on the system, complete the following steps:

**Step 1** Turn on the power to all connected peripherals.



**Note** Peripheral power is activated before system power so that the system can recognize the peripherals when it is activated.

**Step 2** Apply power to the system inlet.

**Step 3** Press the front panel ON/STBY system switch to the ON position and hold it until the system starts to power up.

## Starting the Cisco PGW 2200 Softswitch Software

Under normal conditions, simply powering up the system automatically launches the Cisco PGW 2200 Softswitch software and the Simple Network Management Protocol (SNMP) daemon using system defaults. See the “[Configuring SNMP Support Resources](#)” section in *Cisco PGW 2200 Softswitch Software Release 9.8 Installation and Configuration Guide* for more information about SNMP.



**Note** Ensure that the Cisco PGW 2200 Softswitch software Release 9 has been correctly installed, configured, and provisioned on the host server. Ensure that you have the appropriate packages, or applications, for your system. If the software has been installed, configured, or provisioned incorrectly, or you have other problems, see [Chapter 6, “Troubleshooting the Cisco PGW 2200 Softswitch Platform,”](#) for more information.



**Note** To perform the procedures in this section, you must have a user ID that is part of the Cisco PGW 2200 Softswitch group (mggrp). Also, you must have the proper group privileges. To verify that your user ID is valid and that you have the necessary privileges, see the “[Configuring Groups and Users](#)” section in *Cisco PGW 2200 Softswitch Software Release 9.8 Installation and Configuration Guide* for more information.

**Note**

The Cisco PGW 2200 Softswitch includes license files that are stored in a directory from which the Cisco PGW 2200 Softswitch gets the required license information. The Cisco PGW 2200 Softswitch uses the license file to enforce the available features and capacity. For more information about license features on the Cisco PGW 2200 Softswitch, see the document *Licensing Features for PGW 2200* at:

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/pgw/9/feature/module/9.7\\_3\\_/FlexLM.html](http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/9/feature/module/9.7_3_/FlexLM.html)

## Starting the Cisco PGW 2200 Softswitch Software Manually

**Caution**

Do not use the commands in this section or the subsequent commands in this chapter unless specifically instructed to do so by Cisco Technical Assistance Center (TAC) personnel.

To manually start the Cisco PGW 2200 Softswitch software, log in to the active Cisco PGW 2200 Softswitch as **root** and enter the following command:

```
# /etc/init.d/CiscoMGC start
```

This command restores execution permission and enables the automated startup script.

## Cisco SS7 Interface Startup Procedure

This section contains the recommended startup procedure for the Cisco SS7 interfaces, which can be either a Cisco IP Transfer Point LinkExtender (ITP-L) or Cisco IP Transfer Point (ITP).

**Note**

Ensure that the SS7 interface is installed and configured correctly and that the correct software version is installed. If you experience problems, see the documentation for your SS7 interface for detailed information.

To start a Cisco SS7 interface, perform the following steps:

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- Step 1** Before you start the Cisco SS7 interface, verify the following:
- All modules are installed correctly, and all interface cable connections are secure.
  - Power cable is connected to both the rear panel power connector and the power source.
  - Terminal is connected to the console port and is turned on.
- Step 2** Turn on the power. During the boot process, observe the following:
- Power LED on the front panel should be green.
  - Activity LED should be blinking.
  - You should hear the system fans operating.
  - Console terminal displays a script and system banner.
- Step 3** Press Enter at the Enter Password prompt to access the console command line.
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# Cisco Switch Startup Procedure

This section contains the recommended startup procedure for the Cisco switches that interconnect with the elements of the Cisco PGW 2200 Softswitch platform.

**Note**

Ensure that the switch is installed and configured correctly and that the correct software version is installed. If you experience problems, see the documentation for your switch for detailed information.

To start a Cisco switch, complete the following steps:

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- Step 1** Before you start the switch, verify the following:
- All modules are installed correctly, and all interface cable connections are secure.
  - Each power supply is installed correctly and is connected to a grounded power source.
  - If two power supplies are present, each power cord is connected to a different line.
  - A terminal is connected to the supervisor module console port and is turned on.
- Step 2** Turn on the power supplies (I). During the boot process, observe the following:
- The LEDs on the power supplies should be green.
  - The PS1, PS2, and fan LEDs on the supervisor engine should be green, and you should hear the system fans operating.
  - The System Status LED on the supervisor engine should be green after the boot is complete. It flashes red, orange, and green during startup.
  - The supervisor engine interface LEDs and module LEDs (such as the Link LEDs) might blink or stay lit continuously during the boot process. Many module LEDs do not go on until you configure the interfaces. Wait until the boot is complete before trying to verify the module LED indications.
  - The console terminal displays a script and system banner.
  - The supervisor engine begins to initialize the modules once the boot process has completed. Messages appear on the console as the modules come online.
- Step 3** Press Enter at the Enter Password prompt to access the console command line.
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## Cisco PGW 2200 Softswitch Shutdown Procedure

This section contains the software and hardware shutdown procedures for the Cisco PGW 2200 Softswitch.

### Shutting Down the Cisco PGW 2200 Softswitch Software Manually

**Caution**

Do not use the commands in this section or the subsequent commands in this chapter unless specifically instructed to do so by Cisco Technical Assistance Center (TAC) personnel.

To manually stop the Cisco PGW 2200 Softswitch software, log into your active Cisco PGW 2200 Softswitch as **root** and enter the following command:

```
# /etc/init.d/CiscoMGC stop
```

This command disables the automated startup script.

## Shutting Down the Cisco PGW 2200 Softswitch Hardware

To shut down the Cisco PGW 2200 Softswitch, remove power from the system. The power switch of the Cisco PGW 2200 Softswitch is a rocker, a momentary contact switch that functions as a standby device only. The switch controls logic circuits that enable power module output.

**Caution**

Before you turn off the power, exit the operating system. Failure to do so might result in data loss.

To shut down the Cisco PGW 2200 Softswitch, complete the following steps:

- Step 1** Where necessary, notify users that the Cisco PGW 2200 Softswitch is out of service.
- Step 2** Back up system files and data before shutdown. See the [“Backing Up System Software” section on page 3-29](#).
- Step 3** Exit the operating system. See your Sun documentation for the appropriate commands to issue to exit the operating system.

**Note**

Ensure that you issue the **init 5** UNIX command as part of the procedure for exiting the operating system. The Sun Microsystems documentation describes this command.

- Step 4** Momentarily set the front panel power switch to the STBY position until the system powers down.
- Step 5** Verify that the POWER LED is off.
- Step 6** Remove the input power connector from the power inlet.

**Warning**

**Regardless of the position of the ON/STBY switch, if an AC or DC power cord remains connected to the system, voltage might be present within the power supply.**

## Cisco SS7 Interface Shutdown Procedure

To shut down the Cisco SS7 interfaces, set the power switches to the OFF (0) position.

When the power switches are in the OFF (0) position, the power LEDs on the front panels should be off and the fans should not be operating.

# Cisco Switch Shutdown Procedure

To shut down the Cisco switches, set the power switches to the OFF (0) position.

When the power switches are in the OFF (0) position, the LEDs on the power supplies should be off and the fan assembly should not be operating.