



CHAPTER 2

Cisco PGW 2200 Softswitch Platform Component Startup and Shutdown Procedures

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This chapter describes the steps necessary to start up 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 2-1](#)
- [Cisco SS7 Interface Startup Procedure, page 2-3](#)
- [Cisco Switch Startup Procedure, page 2-4](#)

You might need to perform these tasks if you:

- Have made changes to the system configuration
- Are upgrading the software
- Are testing the system
- Are troubleshooting alarms
- Are trying to resolve a problem



Note

In these procedures, it is assumed that the component has been correctly installed, configured, and provisioned in accordance with the instructions provided in the relevant documentation.

Shutdown procedures for each component of the Cisco PGW 2200 Softswitch platform are 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, controlling the logic circuits that enable power module output.

**Note**

The system switch for each Sun Netra platform is unique. See the documentation 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 prior to 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” section in the *Cisco PGW 2200 Softswitch Software Release 9.8 Installation and Configuration Guide* for more information about SNMP.

**Note**

In this section, it is assumed that the Cisco PGW 2200 Softswitch software Release 9 has been correctly installed, configured, and provisioned on the host server and that you have the appropriate packages, or applications, for your system. If the Cisco PGW 2200 Softswitch Release 9 software has been installed, configured, or provisioned incorrectly, or if you are having other problems, see [Chapter 8, “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 (mgcgrp) and you must have the proper group privileges. To verify that your user ID is part of the Cisco PGW 2200 Softswitch group and that you have the necessary privileges, see the “Configuring Groups and Users” section in the *Cisco PGW 2200 Softswitch Software Release 9.8 Installation and Configuration Guide* for more information.

**Note**

To manage licenses, Cisco PGW 2200 Softswitch provides license files that are stored in a directory where Cisco PGW 2200 Softswitch obtains the required license information. Cisco PGW 2200 Softswitch uses the license file to enforce the capacity and features available. For more information about License features on the Cisco PGW 2200 Softswitch, see 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

Starting Up the Cisco PGW 2200 Softswitch Software Manually

**Caution**

Do not use the following commands 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 use the following command:

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

This action 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 either be a Cisco IP Transfer Point LinkExtender (ITP-L) or Cisco IP Transfer Point (ITP).

**Note**

In this section, it is assumed that the SS7 interface has been correctly installed and configured and that the correct software version is installed. If you are experiencing problems, see the documentation for your SS7 interface for detailed information.

To start up 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.
 - The power cable is connected to both the rear panel power connector and the power source.
 - A terminal is connected to the console port and is turned on.
- Step 2** Turn the power on (I). During the boot process, observe the following:
- The power LED on the front panel should be green.
 - The activity LED should be blinking.
 - You should hear the system fans operating.
 - The console terminal displays a script and system banner.
- Step 3** Press Return 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 used to internetwork the elements of the Cisco PGW 2200 Softswitch platform.

**Note**

In this section, it is assumed that the switch has been correctly installed and configured and that the correct software version is installed. If you are experiencing problems, see the documentation for your switch for detailed information.

To start a Cisco switch, complete the following steps:

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 the power supplies on (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 is completed. Messages appear on the console as the modules come online.

Step 3 Press Return at the Enter Password prompt to access the console command line.

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 following commands 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 use the following command:

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

This action disables the automated startup script.

Shutting Down the Cisco PGW 2200 Softswitch Hardware

To shut down the Cisco PGW 2200 Softswitch, you 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, controlling logic circuits that enable power module output.

**Caution**

Before you turn off the power, exit from 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 going down.
- Step 2** Back up system files and data prior to shutdown. See the [“Backing Up System Software” section on page 3-28](#).
- Step 3** Exit from the operating system. See your Sun documentation for the appropriate commands to be used to exit from the operating system.

**Note**

Ensure that you use the UNIX command **init 5** as part of exiting from the operating system. This command is described in the Sun documentation.

- 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.

**Caution**

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

Cisco SS7 Interface Shutdown Procedure

To shut down the Cisco SS7 interfaces, simply 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, simply 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.