



Overview of Cisco Unified SIP Proxy Release 8.5 Installation

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This guide describes the set of Cisco Unified SIP Proxy command-line interface (CLI) commands and graphical user interface (GUI) options for installing and upgrading the Cisco Unified SIP Proxy software.

Use this guide to install the Cisco Unified SIP Proxy software. This guide does not provide information on how to install Cisco routers or Cisco network modules.

For late-breaking information about this version of Cisco Unified SIP Proxy, see the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#).

This chapter contains the following sections:

- [Overview of Installing Cisco Unified SIP Proxy Release 8.5, page 1](#)
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Overview of Installing Cisco Unified SIP Proxy Release 8.5

Cisco Unified SIP Proxy is a high-performance, highly available Session Initiation Protocol (SIP) server for centralized routing and SIP signaling normalization. Release 8.5 introduces two new hardware platforms on which Cisco Unified SIP Proxy can be installed. You can install Cisco Unified SIP Proxy on the Enhanced Network Module (NME) for the ISR family (3800 series) or on a Service Module for the SRE family (2900 and 3900 series).

You can install Cisco Unified SIP Proxy Release 8.5 as a new customer or you can migrate to Release 8.5 as an existing customer who is moving from Cisco Unified SIP Proxy Release 1.x to Release 8.5. We do not support upgrading your software from an earlier release of Cisco Unified SIP Proxy. If you have an earlier release of Cisco Unified SIP Proxy and want to move to Release 8.5, you must completely install the new software for Release 8.5.

**Caution**

If you are migrating your system from Release 1.x, you must use the boot helper for installation. See [Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5](#) for details. If you do not use the boot helper, your installation will fail.

Supported Modules

Older releases of Cisco Unified SIP Proxy supported the NME-CUSP-522-K9 module only. Cisco Unified SIP Proxy Release 8.5 adds support for the SM-SRE-700-K9 and the SM-SRE-900-K9 Service Ready Engine (SRE) modules. These service modules are supported only on the Cisco 2900 Series and Cisco 3900 Series routers. For more information about the specifications for these modules as they relate to Cisco Unified SIP Proxy, see the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#). For more information about these modules in general, see the [Cisco SRE Service Module Configuration and Installation Guide](#).

The Cisco Unified SIP Proxy application software is normally pre-installed on the module at the factory. However, there may be cases where the software may need to be re-installed. For more information, see [Installing Cisco Unified SIP Proxy Release 8.5](#), page 9.

Licensing System

Cisco Unified SIP Proxy Release 8.5 supports the Cisco Software Licensing (CSL) system. CSL licensing is explained further in “[Installing the Cisco Unified SIP Proxy Release 8.5 Software Licenses](#)”.

Open Source Licensing

Some components of the software created for Cisco Unified SIP Proxy Release 8.5 are provided through open source or commercial licensing. These components and the associated copyright statements can be found at http://www.cisco.com/en/US/products/ps10475/products_licensing_information_listing.html.

Platforms and Cisco IOS Software Images

The Cisco Unified SIP Proxy software uses a set of commands that are similar in structure to Cisco IOS software commands. However, Cisco Unified SIP Proxy commands do not affect the Cisco IOS configuration.

Cisco Unified SIP Proxy hardware modules and platforms use the Cisco IOS commands for their operation. See the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#) for detailed information about the supported Cisco Unified SIP Proxy software images and hardware platforms.

Installation Steps

To perform a new installation of Cisco Unified SIP Proxy Release 8.5, follow the steps in [Table 1](#).



Note

For information about migrating to Release 8.5, see [Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5](#).

Table 1 *Installation Steps*

Task	For more information, see
Physically install the module. The Cisco Unified SIP Proxy Release 8.5 software can be installed on any of the following: <ul style="list-style-type: none"> NME for the ISR family (Cisco 3800 series) Service Module for the SRE family (Cisco 2900 and 3900 series) 	<ul style="list-style-type: none"> Cisco 3800 Series Hardware Installation Cisco 3900 Series and Cisco 2900 Series Hardware Installation Guide
Review the restrictions and perform the prerequisites.	<ul style="list-style-type: none"> Restrictions for Installing Cisco Unified SIP Proxy Release 8.5, page 10 Prerequisites for Installing Cisco Unified SIP Proxy Release 8.5, page 11
Configure the ISR.	Loading the Correct IOS Image on the ISR, page 11
Activate the IP connectivity to Cisco Unified SIP Proxy.	Activating IP Connectivity to Cisco Unified SIP Proxy, page 12
Open a session into Cisco Unified SIP Proxy.	Opening and Closing a Session with the Module, page 15
Download and install the Cisco Unified SIP Proxy software. ¹	<ul style="list-style-type: none"> For systems without a Release 1.x image on it: How to Download and Install the Software, page 18 For systems with a Release 1.x image on it: Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5
Run the postinstallation tool.	Using the Postinstallation Configuration Tool, page 24
Install the licenses.	Installing the Cisco Unified SIP Proxy Release 8.5 Software Licenses, page 29

1. When you order Cisco Unified SIP Proxy Release 8.5, the software is installed on the module at the factory.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and RSS Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com username and password.</p>	<p>http://www.cisco.com/techsupport</p>
<p>Cisco Feature Navigator website</p>	<p>http://www.cisco.com/go/cfn</p> <p>Use Cisco Feature Navigator to find information about platform support and Cisco IOS and Catalyst OS software image support. An account on Cisco.com is not required.</p>



Documentation Roadmap for Cisco Unified SIP Proxy Release 8.5

Quick List of Documents

- [Release Notes for Cisco Unified SIP Proxy Release 8.5](#)
- [Open Source Licensing for Cisco Unified SIP Proxy Release 8.5](#)
- [Install Guide for Cisco Unified SIP Proxy Release 8.5](#)
- [CLI Configuration Guide for Cisco Unified SIP Proxy Release 8.5](#)
- [CLI Command Reference for Cisco Unified SIP Proxy Release 8.5](#)
- [GUI Administration Guide for Cisco Unified SIP Proxy Release 8.5](#)

Release and General Information

Licensing Information

Open Source Licensing for Cisco Unified SIP Proxy Release 8.5

Contains information about the open-sourced software used in this product.

This document is available at:

http://www.cisco.com/en/US/products/ps10475/products_licensing_information_listing.html

Release Notes

Release Notes for Cisco Unified SIP Proxy Release 8.5

Contains system requirements, licensing information, new features, limitations, and documentation references.

This document is available at:

http://www.cisco.com/en/US/products/ps10475/prod_release_notes_list.html

Reference Guides

Command References

Command Reference for Cisco Unified SIP Proxy Release 8.5

Provides tips for configuring Cisco Unified SIP Proxy Release 8.5 software using the command-line interface (CLI). Lists the available CLI commands and syntax.

This document is available at:

http://www.cisco.com/en/US/products/ps10475/prod_command_reference_list.html

Install and Upgrade

Install and Upgrade Guides

Installation Guide for Cisco Unified SIP Proxy Release 8.5

Provides information about how to install Cisco Unified SIP Proxy Release 8.5 as well as information about installing the licenses.

This document is available at:

http://www.cisco.com/en/US/products/ps10475/prod_installation_guides_list.html

Maintain and Operate

Maintain and Operate Guides

CLI Configuration Guide for Cisco Unified SIP Proxy Release 8.5

Describes how to use the Command-Line Interface (CLI) to set up, configure, operate, and maintain the Cisco Unified SIP Proxy system.

This document is available at:

http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html

GUI Administration Guide for Cisco Unified SIP Proxy Release 8.5

This document is the same as the online help that can be found in the Graphical User Interface (GUI) for Cisco Unified SIP Proxy. It contains information about how to use the GUI to set up, configure, operate, and maintain the Cisco Unified SIP Proxy system.

This document is available at:

http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html

Troubleshooting Information on the Cisco DocWiki

Troubleshooting information for Cisco Unified SIP Proxy can be found on the Cisco DocWiki at http://docwiki.cisco.com/wiki/Cisco_Unified_SIP_Proxy

Information on the DocWiki can be updated by anyone with a Cisco.com user ID and password. In this way, the troubleshooting information is a collaboration between Cisco and its customers.

Marketing Materials

Read the marketing materials for Cisco Unified SIP Proxy Release 8.5, including data sheets, at <http://www.cisco.com/en/US/products/ps10140/index.html>

Downloading the Software

To download the Cisco Unified SIP Proxy Release 8.5 software, navigate to <http://tools.cisco.com/support/downloads/pub/Redirect.x?mdfid=282713225>.



Installing Cisco Unified SIP Proxy Release 8.5

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Caution

If you are upgrading to Cisco Unified SIP Proxy Release 8.5 from a Release 1.x image, you must install the software by using a helper. For information about migrating from a Release 1.x system to a Release 8.5 system, see [Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5](#). Do not follow the procedures in this chapter.

- [About Installing Cisco Unified SIP Proxy Release 8.5, page 9](#)
- [Restrictions for Installing Cisco Unified SIP Proxy Release 8.5, page 10](#)
- [Prerequisites for Installing Cisco Unified SIP Proxy Release 8.5, page 11](#)
- [How to Download and Install the Software, page 18](#)

About Installing Cisco Unified SIP Proxy Release 8.5

There are two hardware platforms on which you can install Cisco Unified SIP Proxy Release 8.5:

- network module, such as the NME-CUSP-522
- service module, such as the SM-SRE-700 and SM-SRE-900

About Installing on a Network Module

Use this process if you are using a network module. You can also use this process if you are using a service module but only if the software has already been loaded.



Caution

You cannot use this process with a blank service module.

If you are upgrading to Cisco Unified SIP Proxy Release 8.5 from a Release 1.x image, you must install the software by using a helper. If a Cisco Unified SIP Proxy Release 8.5 image already exists on the router, then you can perform a clean installation.

For information about migrating from a Release 1.x system to a Release 8.5 system, see [Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5](#). Do not follow the procedures in this chapter.

Follow these steps:

1. Read the restrictions. See [Restrictions for Installing Cisco Unified SIP Proxy Release 8.5, page 10](#).
2. Perform the prerequisites. See [Prerequisites for Installing Cisco Unified SIP Proxy Release 8.5, page 11](#).
3. Install the software. See either [How to Install the Software on a Service Module, page 23](#).
4. Use the Postinstallation Configuration Tool. See [Using the Postinstallation Configuration Tool, page 24](#).

About Installing on a Service Module



Note

For information about migrating from a Release 1.x system to a Release 8.5 system, see [Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5](#). Do not follow the procedures in this chapter.

Use this process if you are using a service module. The service module can be blank or have the software already loaded on it.



Caution

This process does not work with network modules.

Follow these steps:

1. Read the restrictions. See [Restrictions for Installing Cisco Unified SIP Proxy Release 8.5, page 10](#).
2. Perform the prerequisites. See [Prerequisites for Installing Cisco Unified SIP Proxy Release 8.5, page 11](#).
3. Install the software. See [Using the Clean Install Command, page 18](#).
4. Use the Postinstallation Configuration Tool. See [Using the Postinstallation Configuration Tool, page 24](#).

Restrictions for Installing Cisco Unified SIP Proxy Release 8.5

- [Configuration, page 10](#)
- [Hardware, page 11](#)
- [System Functionality, page 11](#)

Configuration

You can only configure the module software by using a console that connects to a single serial console port on the host router. From the console, you use the router's Cisco IOS software CLI to reach the module.

Hardware

- You cannot replace the hard disk on the module. If the module's hard disk crashes, you must replace the module.
- The module's front panel Gigabit Ethernet 0 port is not used by Cisco Unified SIP Proxy and is disabled. The Gigabit Ethernet on the backplane connects the Cisco Unified SIP Proxy module to the router and is the only active Gigabit Ethernet port on the module.

System Functionality

Cisco Unified SIP Proxy does not support CiscoWorks Configmaker.

Prerequisites for Installing Cisco Unified SIP Proxy Release 8.5

- [Loading the Correct IOS Image on the ISR, page 11](#)
- [Activating IP Connectivity to Cisco Unified SIP Proxy, page 12](#)
- [Opening and Closing a Session with the Module, page 15](#)
- [Preparing the FTP and TFTP Servers, page 17](#)
- [Booting Up Cisco Unified SIP Proxy for the First Time, page 18](#)

Loading the Correct IOS Image on the ISR

Cisco Unified SIP Proxy Release 8.5 requires that the host ISR be running a K9 IOS image. Follow these steps to load the correct IOS image onto the ISR.

Procedure

Step 1 Download the K9 version of this image from Cisco.com.

The file is called `c<xxx>-ipbasek9-<IOS_release_number>`, where `<xxx>` is the ISR model number and `<IOS_release_number>` is the release number for your Cisco IOS system. For example, the file is called `c3845-ipbasek9-mz.150-1.M3` for a 3845 router that uses Cisco IOS release 15.0(1)M3. For an ISR G2, such as the 3925 or 3945, an example IOS image file is `c3900-universalk9-mz.SPA.150-1.M3`

To find the file, do the following:

- Go to Cisco.com.
- Click **Support**.
- On the right, in the box that says Option 2: Select a Task, click **Download Software**.
- In the left box, click **Products**.
- In the middle box, click **Cisco IOS and NX-OS Software**.
- In the right box, click your release of Cisco IOS, such as **Cisco IOS**.
- In the right box, click your release of Cisco IOS, such as **Cisco IOS Software Release 15M&T**.

- h. In the right box, click your release of Cisco IOS, such as **Cisco IOS Software Release 15M**.
- i. In the right box, scroll down and click **Routers**.
- j. In the right box, scroll down and click **Branch Routers**.
- k. Click the name of your router model.
- l. Under Select a Software Type, click **IOS Software**.
- m. Click the software version that corresponds to the IOS version installed on your system.
- n. Scroll down until you find the file.
- o. Click **Download Now**.
- p. Log in if you are prompted.
- q. Proceed with the download.

Step 2 Physically connect the console to the router.

Step 3 Log in to the machine using SSH or Telnet.

Step 4 Copy the image that you downloaded in [Step 1](#) to the flash directory.

Step 5 Ensure that the config register is set to 0x2102 so that the router can boot from flash.

Step 6 Configure the ISR to automatically load this Cisco IOS image after a reboot by entering these commands:

```
boot-start-marker
boot system flash:<file_name>
boot-end-marker
```

Activating IP Connectivity to Cisco Unified SIP Proxy

After you physically install the module in the router, you need to activate the IP communication link between the host router and the Cisco Unified SIP Proxy application.

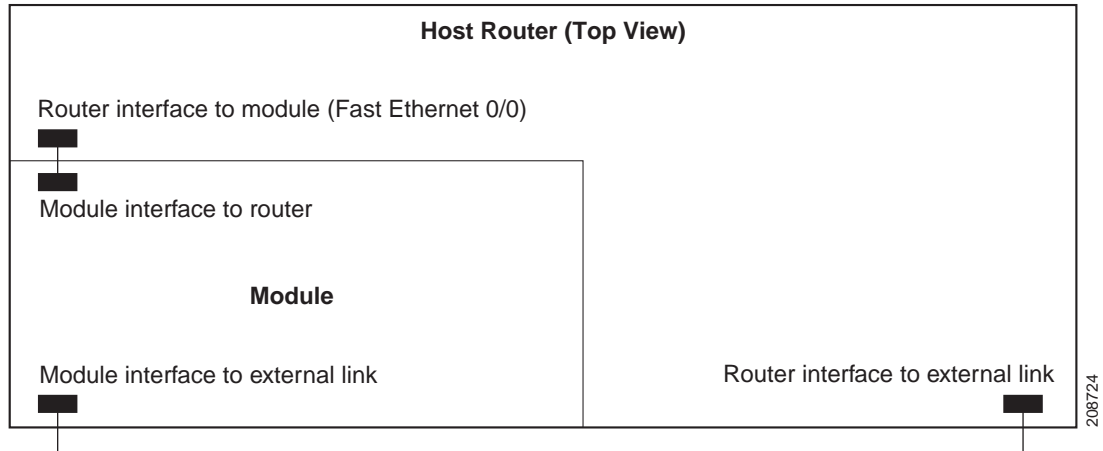
- [Prerequisites, page 12](#)
- [Summary Steps, page 13](#)
- [Detailed Steps, page 13](#)
- [Examples of IP Connectivity, page 14](#)

Prerequisites

Gather the following information before activating the software:

- Slot and port numbers of the module on the Cisco router that hosts Cisco Unified SIP Proxy.
- IP address and subnet mask of the Cisco router that hosts Cisco Unified SIP Proxy or the unnumbered interface type and number.
- IP address of the module. This IP address must be on the same subnet as the Cisco router that hosts Cisco Unified SIP Proxy.
- IP address of the default gateway of the host router. This IP address must be the same IP address as the Cisco router that hosts Cisco Unified SIP Proxy.

Figure 1 Router and Module Interfaces



Summary Steps

1. Depending on your module type, do one of the following:
 - For a network module:


```
interface integrated-Service-Engine slot/port
```
 - For a service module:


```
interface sm slot/0
```
2.

```
ip address router-ip-addr subnet-mask
```


or

```
ip unnumbered type number
```
3.

```
service-module ip address cusp-side-ip-addr subnet-mask
```
4.

```
service-module ip default-gateway gw-ip-addr
```
5.

```
no shutdown
```
6.

```
exit
```
7.

```
ip route cusp-side-ip-addr subnet-mask integrated-Service-Engine slot/port
```

Detailed Steps

	Command or Action	Purpose
Step 1	Depending on your module type, do one of the following: <pre>interface integrated-service-engine slot/port</pre> Example: Router(config)# <pre>interface interface-service-engine 2/0</pre>	Enters interface configuration mode on the enhanced network module (NME).

	Command or Action	Purpose
	<pre>interface sm slot/0</pre> <p>Example: Router(config)# interface sm 2/0</p>	Enters interface configuration mode on the Service Module (SM) SRE module.
Step 2	Enter one of the following:	
	<pre>ip address router-ip-addr subnet-mask</pre> <p>Example: Router(config-if)# ip address 172.18.12.28 255.255.255.0</p>	Specifies the IP address and subnet mask of the Cisco IOS router hosting Cisco Unified SIP Proxy.
	<pre>ip unnumbered type number</pre> <p>Example: Router(config-if)# ip unnumbered GigabitEthernet 0/0</p>	Specifies the interface <i>type</i> and <i>number</i> for the Cisco IOS router hosting Cisco Unified SIP Proxy.
Step 3	<pre>service-module ip address cusp-side-ip-addr subnet-mask</pre> <p>Example: Router(config-if)# service-module ip address 172.18.12.26 255.255.255.0</p>	Specifies the IP address of the Cisco Unified SIP Proxy module interface. This IP address must be on the same subnet as the Cisco router that hosts Cisco Unified SIP Proxy.
Step 4	<pre>service-module ip default-gateway gw-ip-addr</pre> <p>Example: Router(config-if)# service-module ip default-gateway 172.18.12.1</p>	Specifies the default gateway for Cisco Unified SIP Proxy.
Step 5	<pre>no shutdown</pre> <p>Example: Router(config-if)# no shutdown</p>	Enables actual IP connectivity to the blade.
Step 6	<pre>exit</pre> <p>Example: Router(config-if)# exit</p>	Exits interface configuration mode.
Step 7	<pre>ip route cusp-side-ip-addr subnet-mask integrated-Service-Engine slot/port</pre> <p>Example: Router(config-if)# ip route 172.18.12.26 255.255.255.0 integrated-Service-Engine 2/0</p>	Specifies the IP route on the Cisco Unified SIP Proxy side.

Examples of IP Connectivity

The following partial outputs from the **show running-config** command shows how the interfaces are configured.

With IP Address

```
Router(config)# interface integrated-Service-engine 1/0
Router(config-if)# ip address 10.0.0.20 255.255.255.0
Router(config-if)# service-module ip address 172.18.12.28 255.255.255.0
Router(config-if)# service-module ip address default-gateway 172.18.12.26
Router(config-if)# ip route 172.18.12.26 255.255.255.0 integrated-Service-Engine 2/0
```

With IP Unnumbered

```
Router(config)# interface integrated-Service-Engine 2/0
Router(config-if)# ip unnumbered GigabitEthernet 0/0
Router(config-if)# service-module ip address 172.18.12.26 255.255.255.0
Router(config-if)# service-module ip default-gateway 172.18.12.1
Router(config-if)# ip route 172.18.12.26 255.255.255.0 integrated-Service-Engine 2/0
```

Opening and Closing a Session with the Module

After you set up the module interfaces, you can open and close a session on the Cisco Unified SIP Proxy. The first time that you access the Cisco Unified SIP Proxy module, its hostname will be the factory default, probably SE-Module.

- [Summary Steps, page 15](#)
- [Detailed Steps, page 16](#)

Summary Steps

From the Host Router CLI

1. **enable**
2. Depending on your module type, do one of the following:
 - For a network module:
service-module integrated-Service-Engine *slot/port* status
 - For a service module:
service-module Service-Module *slot/port* status
3. Depending on your module type, do one of the following:
 - For a network module:
service-module integrated-Service-Engine *slot/port* session
 - For a service module:
service-module Service-Module *slot/port* session
4. Enter your credentials.

From the Module CLI

5. Do configuration or other procedures.
 - The first time that you open a session, the system launches the postinstallation configuration tool. See the [“Using the Postinstallation Configuration Tool”](#) section on page 24.
 - To see which other configurations are available, see the [CLI Configuration Guide for Cisco Unified SIP Proxy Release 8.5](#).
6. **Control-Shift-6 x or exit**

From the Host Router CLI

7. Depending on your module type, do one of the following:

- For a network module:
service-module integrated-Service-Engine *slot/port* session clear
- For a service module:
service-module Service-Module *slot/port* session clear

Detailed Steps

	Command or Action	Purpose
	From the Host-Router CLI	
Step 1	<code>enable</code> Example: Router> <code>enable</code>	Enters privileged EXEC mode on the host router. Enter your password if prompted.
Step 2	Depending on your module type, do one of the following:	
	<code>service-module integrated-service-engine <i>slot/port</i> status</code> Example: Router# <code>service-module integrated-service-engine 2/0 status</code>	Displays the status of the specified module, so that you can ensure that the module is running (that is, in steady state). Note If the module is not running, start it with one of the startup commands listed in the CLI Command Reference for Cisco Unified SIP Proxy Release 8.5 .
	<code>service-module Service-Module <i>slot/port</i> status</code> Example: Router# <code>service-module Service-Module 2/0 status</code>	Displays the status of the specified module, so that you can ensure that the module is running (that is, in steady state). Note If the module is not running, start it with one of the startup commands listed in the CLI Command Reference for Cisco Unified SIP Proxy Release 8.5 .
Step 3	Depending on your module type, do one of the following:	
	<code>service-module integrated-service-engine <i>slot/port</i> session</code> Example: Router# <code>service-module integrated-service-engine 1/0 session</code>	Begins a session on the specified module. Do one of the following: <ul style="list-style-type: none"> • To interrupt the autoboot sequence and access the bootloader, quickly type ***. • To start a configuration session, press Enter.
	<code>service-module Service-Module <i>slot/port</i> session</code> Example: Router# <code>service-module Service-Module 2/0 session</code>	Begins a session on the specified module. Do one of the following: <ul style="list-style-type: none"> • To interrupt the autoboot sequence and access the bootloader, quickly type ***. • To start a configuration session, press Enter.
Step 4		Enter your credentials.

Command or Action	Purpose
From the Service-Module Interface	
<p>Step 5</p> <p>Example: SE-Module> configure terminal SE-Module(config)> . SE-Module(config)> exit SE-Module> write</p>	<p>Enter configuration commands on the module as needed.</p> <p>Configuration command choices are similar to those that are available on the router. Access global configuration mode by using the configure terminal command. Enter configuration commands. Then exit global configuration mode with the exit command and save your new configuration with the write command.</p>
<p>Step 6 Press Control-Shift-6 x.</p>	<p>Closes the service-module session and returns to the router CLI.</p> <p>Note The service-module session stays up until you clear it in the next step. While it remains up, you can return to it from the router CLI by pressing Enter.</p>
Step 7 Depending on your module type, do one of the following:	
<pre>service-module integrated-service-engine slot/port session clear</pre> <p>Example: Router# service-module integrated-service-engine 1/0 session clear</p>	<p>Clears the service-module session for the specified module. When prompted to confirm this command, press Enter.</p>
<pre>service-module Service-Module slot/port session clear</pre> <p>Example: Router# service-module Service-Module 2/0 session clear</p>	<p>Clears the service-module session for the specified module. When prompted to confirm this command, press Enter.</p>

Preparing the FTP and TFTP Servers

Verify that your download FTP and TFTP servers are accessible. You will need the FTP server for installations, backups, and restores, and the TFTP file server (on the FTP-file-server machine) for boothelper operations to recover if the installation fails.

- Ensure that you have the following FTP server information ready:
 - FTP server hostname or IP address. If the Cisco Unified SIP Proxy is configured to use DNS, use the hostname. If the Cisco Unified SIP Proxy is not configured to use DNS, use the IP address.
 - FTP server username
 - FTP server password



Note The FTP server that communicates with Cisco Unified SIP Proxy must support passive FTP requests.

For more information, see your *FTP server documentation*.

Booting Up Cisco Unified SIP Proxy for the First Time

The first time Cisco Unified SIP Proxy is booted up, you are prompted for information about your Cisco Unified SIP Proxy. When you are asked if you want to configure the module, answer yes. Answer the questions that follow which include questions about time zone, NTP servers, and other details about your configuration.

How to Download and Install the Software

- [Using the Clean Install Command, page 18](#)
- [How to Install the Software on a Service Module, page 23](#)
- [Using the Postinstallation Configuration Tool, page 24](#)



Tip

If you lose power or connection during any of the following procedures, the system usually detects the interruption and tries to recover. If it fails to recover, reinstall the system using the boot helper.

Using the Clean Install Command

- [About Using the Clean Install Command, page 18](#)
- [Prerequisites for Using the Clean Install Command, page 18](#)
- [Downloading and Installing the Clean Install Command Software Files, page 19](#)
- [Example of Installing the Software Using the Clean Install Software Command, page 19](#)

About Using the Clean Install Command

The system is offline while you are using this clean installation process. The clean installation erases the disk before loading the new files on the disk.

However, your previous module configuration, if any, is usually saved to the flash memory. After the new files are loaded, the system offers to restore the configuration it finds in flash, if any. You can choose to restore this configuration into the new image. A stored configuration contains some of the data from a previous installation, but not as much as a backup.

If you are recovering from a disaster and do not have a backup, you can restore the saved configuration. If you choose not to restore the saved configuration, it is erased from flash.

Prerequisites for Using the Clean Install Command

- The blade on which you are installing the software must have a Cisco Unified SIP Proxy Release 8.5 image on it. If it does not, you must use the boot helper process, described in [Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5](#).
- Gather the following information:
 - FTP server hostname or IP address. If the Cisco Unified SIP Proxy is configured to use DNS, use the hostname. If the Cisco Unified SIP Proxy is not configured to use DNS, use the IP address.

- FTP server username
- FTP server password
- Software package name
- Ensure that the FTP server is configured and active.
- Ensure that you can ping the module from the FTP server.

Downloading and Installing the Clean Install Command Software Files

Procedure

-
- Step 1** Log in to Cisco.com and go to the Cisco Unified SIP Proxy software download page at <http://tools.cisco.com/support/downloads/pub/Redirect.x?mdfid=282713225>.
 - Step 2** Download all the Cisco Unified SIP Proxy Release 8.5 software files. For a complete list of all the files, see the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#).
 - Step 3** Copy the files to the FTP server.
 - Step 4** Starting from Cisco Unified SIP Proxy EXEC mode, enter the following:
ping <ftp_server_ip_address>
 - Step 5** Install the software by entering the following:
software install clean url ftp://<ftp_server_ip_address>/cusp-k9.nmx.8.5.1.pkg
 - Step 6** Enter **y** to confirm installation.
 - Step 7** Enter **boot disk**.
 - Step 8** Enter **y** to begin postinstallation configuration immediately.
 - Step 9** Enter **y** to confirm immediate configuration.
 - Step 10** Enter **y** to restore the configuration saved in memory or **n** to use your backup to restore your configuration.
 - Step 11** If you entered **y** in step 10 enter **y** again to confirm restoration of the saved configuration.
 - Step 12** Use the **show software versions** command to verify the reinstallation.
-

Related Topics

Refer to the [CLI Command Reference for Cisco Unified SIP Proxy Release 8.5](#) for information about the CLI commands.

Example of Installing the Software Using the Clean Install Software Command

The following output illustrates the online installation process, from ensuring the FTP server is reachable, to configuration using the data found in memory and finally, verifying the version.

```
se-10-50-30-125#software install clean url ftp://10.50.10.25/dir/cusp-k9.nmx.8.5.1.pkg
```

```
WARNING:: This command will install the necessary software to
WARNING:: complete a clean install. It is recommended that a backup be done
WARNING:: before installing software.
```

```

Would you like to continue?[confirm]

Downloading ftp cusp-k9.nmx.8.5.1.pkg
Bytes downloaded : 147082

Validating package signature ... done
- Parsing package manifest files... complete.
Validating installed manifests .....complete.
- Checking Package dependencies... complete.
- Checking Manifest dependencies for subsystems in the install candidate list...
complete
Starting payload download
Starting payload download
File : cusp-full-k9.nmx.8.5.1.prt1 Bytes : 83865859
Downloading payload(s) complete
Validating payloads match registered checksums...
- cusp-full-k9.nmx.8.5.1.prt1
.....verified
Validating installed manifests .....complete.
Clearing previous downgrade files ... complete.
Performing Hot install ...starting_phase:
install_files.sh /dwnld/.hot_work_order
install_file: /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 0 __PRIMARY_BOOTLOADER__ gz
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 1 /
/sw/installed/manifest/bootloader_prim_manifest.sig none
install_file: /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 5 __SECONDARY_BOOTLOADER__ gz
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 4 /
/sw/installed/manifest/bootloader_sec_manifest.sig none
WARNING sysdb util exit (Protocol error) Probable leak of evtsrc @b704f1b0 by: python
InstMain.py
.
superthread: INFO superthread server output END

starting_phase:
install_files.sh /dwnld/.work_order
Mon Apr 5 18:20:48 UTC 2010
Remove: ///
root directory
removing INSTALLER_WORK_ORDER
removing INSTALL_COMPLETE
removing application
removing data
removing database
removing home
removing ldap
removing name(s)
removing opt
removing scratch
removing sw
clearing ///tmp/
removing usr
add_file /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 4 / tgz
add_file /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 7 / tgz
add_file /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 9 / tgz
cdp: INFO cdp server output WARNING sysdb evt provider (Operation canceled) event
handler is dead: event=get, attr=/sw/dns/host/name, sender=1554'/bin/cdpd', state=0,
deadline=11:28:24+=450, provider=dns@1634'?'

cdp: INFO cdp server output WARNING sysdb evt provider (Operation canceled) event
handler is dead: event=get, attr=/sw/dns/host/domain, sender=1554'/bin/cdpd', state=0,
deadline=18:28:24+=450, provider=dns@1634'?'

extract_mv_file: /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 2 / lib tgz
extract_mv_file: /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 2 / bin tgz

```

```

extract_mv_file: /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 2 / etc tgz
extract_mv_file: /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 2 / sbin tgz
install_file:
n/KpXrE2b444jrkslT6Kcu3coladzDK+EGgoG/EwPX5rIY20ST+kRKYH5ulF28p7AIESITDsysSW3XBa6kI3wgeCEN
EL8x5mEtKWGoDL4HzlyK7j3q5Gr7G9P81JGRPA0b77iuFj1QPBWiv931EOA3teCPfg6ZLnSlhFA3s2hmQ=
__BZ_SIGNATURE__
bzsigsig ldbl -m bryce -t bzsigsig
n/KpXrE2b444jrkslT6Kcu3coladzDK+EGgoG/EwPX5rIY20ST+kRKYH5ulF28p7AIESITDsysSW3XBa6kI3wgeCEN
EL8x5mEtKWGoDL4HzlyK7j3q5Gr7G9P81JGRPA0b77iuFj1QPBWiv931EOA3teCPfg6ZLnSlhFA3s2hmQ=
add_file /dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1 2 / bzImage tgz
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 3 /
sw/installed/manifest/cusp_infrastructure_manifest.sig none
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 1 /
sw/installed/manifest/bootloader_prim_manifest.sig none
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 7 /
sw/installed/manifest/infrastructure_manifest.sig none
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 8 /
sw/installed/manifest/global_manifest.sig none
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 4 /
sw/installed/manifest/bootloader_sec_manifest.sig none
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 6 /
sw/installed/manifest/installer_manifest.sig none
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 2 /
sw/installed/manifest/oscore_manifest.sig none
add_file /dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg 5 /
sw/installed/manifest/gpl_infrastructure_manifest.sig none
Remove: //dwnld/pkgdata/cusp-k9.nmx.8.5.1.pkg
Remove: //dwnld/pkgdata/cusp-full-k9.nmx.8.5.1.prt1
Creating new nodes.
Performing final moves mnt_dir: /
INIT: fndn_udins_wrapper: INFO fndn_udins_wrapper server output END

cdp: INFO cdp server output END

Rebooting ...

shutdown: sending all processes the TERM signal...
rbcpc: INFO rbcpc daemon output END

platform.config: INFO platform.config server output END

trace: INFO trace daemon output END

shutdown: sending all processes the KILL signal.
shutdown: turning off swap
shutdown: unmounting all file systems
Please stand by while rebooting the system.
Restarting system.
Nmi Npx0 Dly P92 Sha0 Kbd0 Cmos Pci Dma0 PrtB Tim Exp Rfsh Geom

Initializing memory. Please wait. Mem0 Mem1 Ebda Sha1 CacheE Admgr1 Memmgr1 AdmgrEbda
Media LowBios Brd2

Swap to secondary BIOS ... Mem1 Ebda Sha1 CacheE Admgr1 Memmgr1 AdmgrEbda Media LowBios
Brd2 Cache0 Driver PostDrv Dma1 Irq1 Vec Brd4 Time0 Kbd1 Speed Com Vid0 Par PciEnum Vid1
Redir Brd6 Com KbdBuf SMM
General Software Firmware[r] SMM Kernel 1.3.2 Feb 11 2005 11:51:07
Intel(R) E7320 Performance Development Platform

EIST: Enhanced Intel Speedstep Driver, V3.0.
EIST: Copyright (C) 2003-2006 General Software, Inc.
EIST: Built Mar 3 2006, 14:49:27

```

```

UsbHid Pwd Msg0 Msg1 Cache1 Mem2 Prot Cache2 Flg Siz0 Msg2 Ata Dsk Npx1 Apm Err Dbg Enb
App MemReduce MemSync1 Ext MemSync2 PciRom MemSync3 Setup Time1 Mfg Brd8 Com Admgr2 Cfg
Brd10
DDR2 Memory 2047 MB with ECC detected
Intel(R) Celeron(R) M processor          1.00GHz
BIOS ISE 5.00, Build date: 05/05/06
System Now Booting ...

```

```

704 832 968 1040 1172 1184 1196 1208 1220 1228 1240 1260 1276 1288 1304 1320 1332 1348
1368 1380 1644 1784 2060 2204 2344 2860 3376 3640 3904 4168 RSA decrypt returned:33
a434d0dc915ae14f5477ff3cf44c7d22

```

Booting from Secure secondary boot loader..., please wait.

[BOOT-ASM]

```

Updating flash with bootloader configuration: 1
Please wait ...
.....done.

```

```

Please enter '***' to change boot configuration:
Loading disk:/bzImage ... Verifying ... done.
Starting Kernel.

```

Platform: nmx

```

Cisco init
INIT: version 2.86 booting
mounting proc fs ...
mounting sys fs ...
mounting /dev/shm tmpfs ...
reiser root fs ...
Reiserfs super block in block 16 on 0x801 of format 3.6 with standard journal
Blocks (total/free): 19537040/19481910 by 4096 bytes
Filesystem is clean
Filesystem seems mounted read-only. Skipping journal replay.
Checking internal tree..finished

```

```

FILESYSTEM CLEAN
Remounting the root filesystem read-write...

```

```

kernel.sem = 1900 4000 32 100
vm.overcommit_memory = 1

```

Welcome to Cisco Service Engine

```

Power button monitor started
Setting the system time from hardware clock

```

```

***** rc.aesop *****
Populating resource values from /etc/bryce_rsrc_file
attribute ios_rbcg/app_cookie_id exists
Populating resource values from /etc/default_rsrc_file
Populating resource values from /etc/products/umg/default_rsrc_file
Processing manifests . . . . . complete
==> Management interface is eth0
==> Management interface is eth0

```

```

Serial Number: FOC11424VUM
INIT: Entering runlevel: 2
***** rc.post_install *****

```

How to Install the Software on a Service Module

Use this process only if you are starting with a service module. Otherwise, use the process described in the “Using the Clean Install Command” section on page 18.

- [Installing the Software, page 23](#)
- [Example of Installation on a Service Module, page 23](#)

Related Topics

[Cisco SRE Service Module Configuration and Installation Guide](#)

Installing the Software

Procedure

-
- Step 1** Log in to Cisco.com and go to the Cisco Unified SIP Proxy software download page at <http://tools.cisco.com/support/downloads/pub/Redirect.x?mdfid=282713225>.
- Step 2** Download all the Cisco Unified SIP Proxy Release 8.5 software files. For a complete list of all the files, see the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#).
- Step 3** Copy the files to the FTP server.
- Step 4** Starting from router EXEC mode, enter the following:
- ```
ping <ftp_server_ip_address>
```
- Step 5** Install the software by entering the following:
- ```
service-module Service-Module 1/0 install url ftp://<ftp_server_ip_address>/cusp-k9.sme.8.5.1.pkg
```
- Step 6** Enter **y** to confirm installation.
- Step 7** Enter Cisco Unified SIP Proxy SM to monitor and complete the installation.
-

Example of Installation on a Service Module

```
Router# service-module sm 1/0 install url
ftp://<ftp_server_ip_address>/cusp-k9.sme.8.5.1.pkg
Delete the installed Cisco Unified SIP Proxy (CUSP) and proceed with new installation?
[no]: yes
Loading 8.5.0.168/sme/cusp-k9.sme.8.5.1.pkg.install.sre !
[OK - 1850/4096 bytes]
cur_cpu: 1862
cur_disk: 953880
cur_mem: 4135616
cur_pkg_name: cusp-k9.sme.8.5.1.pkg
cur_ios_version: 15.1(2.19)T0.3,
cur_image_name: c2951-universalk9-mz
cur_pid: SM-SRE-900-K9
bl_str:
inst_str:
app_str:
key_filename: cusp-k9.sme.8.5.1.key
helper_filename: cusp-helper.sme.8.5.1
Resource check passed...
```

```
Router#
```

Related Topics

See the [CLI Command Reference for Cisco Unified SIP Proxy Release 8.5](#) for information about the CLI commands.

Using the Postinstallation Configuration Tool

When you open the first session, the system launches the post installation configuration tool, and asks you if you want to start configuration immediately.

Enter the appropriate response, **y** or **n**. If you enter **n**, the system will halt. If you enter **y**, the system will ask you to confirm, then begin the interactive postinstallation configuration process.

The following is an example:

```
IMPORTANT::
IMPORTANT:: Welcome to Cisco Systems Service Engine
IMPORTANT:: post installation configuration tool.
IMPORTANT::
IMPORTANT:: This is a one time process which will guide
IMPORTANT:: you through initial setup of your Service Engine.
IMPORTANT:: Once run, this process will have configured
IMPORTANT:: the system for your location.
IMPORTANT::
IMPORTANT:: If you do not wish to continue, the system will be halted
IMPORTANT:: so it can be safely removed from the router.
IMPORTANT::

Do you wish to start configuration now (y,n)? yes
Are you sure (y,n)? yes

IMPORTANT::
IMPORTANT:: A configuration has been found in flash. You can choose
IMPORTANT:: to restore this configuration into the current image.
IMPORTANT::
IMPORTANT:: A stored configuration contains some of the data from a
IMPORTANT:: previous installation, but not as much as a backup.
IMPORTANT::
IMPORTANT:: If you are recovering from a disaster and do not have a
IMPORTANT:: backup, you can restore the saved configuration.
IMPORTANT::
IMPORTANT:: If you choose not to restore the saved configuration, it
IMPORTANT:: will be erased from flash.
IMPORTANT::

Would you like to restore the saved configuration? (y,n) n

Erasing old configuration...done.

IMPORTANT::
IMPORTANT:: The old configuration has been erased.
IMPORTANT:: As soon as you finish configuring the system please use the
IMPORTANT:: "write memory" command to save the new configuration to flash.
IMPORTANT::

Enter Hostname
(my-hostname, or enter to use se-10-50-30-125):
Using se-10-50-30-125 as default

Enter Domain Name
```



```

(mydomain.com, or enter to use localdomain): cusp

IMPORTANT:: DNS Configuration:
IMPORTANT::
IMPORTANT:: This allows the entry of hostnames, for example foo.cisco.com, instead
IMPORTANT:: of IP addresses like 1.100.10.205 for application configuration. In order
IMPORTANT:: to set up DNS you must know the IP address of at least one of your
IMPORTANT:: DNS Servers.

Would you like to use DNS (y,n)?y

Enter IP Address of the Primary DNS Server
(IP address): 180.180.180.50
Found server 180.180.180.50

Enter IP Address of the Secondary DNS Server (other than Primary)
(IP address, or enter to bypass):

E

Enter Fully Qualified Domain Name(FQDN: e.g. myhost.mydomain.com)
or IP address of the Primary NTP server
(FQDN or IP address, or enter for 10.50.30.1): 10.50.10.1
Found server 10.50.10.1

Enter Fully Qualified Domain Name(FQDN: e.g. myhost.mydomain.com)
or IP address of the Secondary NTP Server
(FQDN or IP address, or enter to bypass):

Please identify a location so that time zone rules can be set correctly.
Please select a continent or ocean.
1) Africa                4) Arctic Ocean          7) Australia            10) Pacific Ocean
2) Americas              5) Asia                   8) Europe
3) Antarctica           6) Atlantic Ocean        9) Indian Ocean
#? 2
Please select a country.
1) Anguilla              27) Honduras
2) Antigua & Barbuda    28) Jamaica
3) Argentina            29) Martinique
4) Aruba                 30) Mexico
5) Bahamas              31) Montserrat
6) Barbados             32) Netherlands Antilles
7) Belize               33) Nicaragua
8) Bolivia              34) Panama
9) Brazil               35) Paraguay
10) Canada               36) Peru
11) Cayman Islands      37) Puerto Rico
12) Chile               38) St Barthelemy
13) Colombia            39) St Kitts & Nevis
14) Costa Rica          40) St Lucia
15) Cuba                41) St Martin (French part)
16) Dominica            42) St Pierre & Miquelon
17) Dominican Republic 43) St Vincent
18) Ecuador             44) Suriname
19) El Salvador         45) Trinidad & Tobago
20) French Guiana       46) Turks & Caicos Is
21) Greenland           47) United States
22) Grenada             48) Uruguay
23) Guadeloupe         49) Venezuela
24) Guatemala           50) Virgin Islands (UK)
25) Guyana              51) Virgin Islands (US)
26) Haiti
#? 47
Please select one of the following time zone regions.

```

- 1) Eastern Time
 - 2) Eastern Time - Michigan - most locations
 - 3) Eastern Time - Kentucky - Louisville area
 - 4) Eastern Time - Kentucky - Wayne County
 - 5) Eastern Time - Indiana - most locations
 - 6) Eastern Time - Indiana - Daviess, Dubois, Knox & Martin Counties
 - 7) Eastern Time - Indiana - Pulaski County
 - 8) Eastern Time - Indiana - Crawford County
 - 9) Eastern Time - Indiana - Pike County
 - 10) Eastern Time - Indiana - Switzerland County
 - 11) Central Time
 - 12) Central Time - Indiana - Perry County
 - 13) Central Time - Indiana - Starke County
 - 14) Central Time - Michigan - Dickinson, Gogebic, Iron & Menominee Counties
 - 15) Central Time - North Dakota - Oliver County
 - 16) Central Time - North Dakota - Morton County (except Mandan area)
 - 17) Mountain Time
 - 18) Mountain Time - south Idaho & east Oregon
 - 19) Mountain Time - Navajo
 - 20) Mountain Standard Time - Arizona
 - 21) Pacific Time
 - 22) Alaska Time
 - 23) Alaska Time - Alaska panhandle
 - 24) Alaska Time - Alaska panhandle neck
 - 25) Alaska Time - west Alaska
 - 26) Aleutian Islands
 - 27) Hawaii
- #? 21

The following information has been given:

```
United States
Pacific Time
```

Therefore TZ='America/Los_Angeles' will be used.

Is the above information OK?

- 1) Yes
 - 2) No
- #? 1

```
Local time is now:      Mon Apr  5 11:20:17 PDT 2010.
Universal Time is now: Mon Apr  5 18:20:17 UTC 2010.
executing app post_install
executing app post_install done
Configuring the system. Please wait...
Changing owners and file permissions.
Tightening file permissions ...
Change owners and permissions complete.
Creating Postgres database .... done.
INIT: Switching to runlevel: 4
INIT: Sending processes the TERM signal
==> Starting CDP
STARTED: cli_server.sh
STARTED: ntp_startup.sh
STARTED: LDAP_startup.sh
STARTED: SQL_startup.sh
STARTED: dnldr_startup.sh
STARTED: HTTP_startup.sh
STARTED: probe
STARTED: fndn_udins_wrapper
STARTED: superthread_startup.sh
STARTED: /bin/products/umg/umg_startup.sh
```

Waiting 49 ...

```
IMPORTANT::
IMPORTANT::      Administrator Account Creation
IMPORTANT::
IMPORTANT:: Create an administrator account.
IMPORTANT:: With this account, you can log in to the
IMPORTANT:: Cisco Unified SIP Proxy
IMPORTANT:: GUI and run the initialization wizard.
IMPORTANT::

Enter administrator user ID:
  (user ID): test
tesEnter password for test:
  (password):
Confirm password for test by reentering it:
  (password):

SYSTEM ONLINE

se-10-50-30-125# show software versions
Cisco Unified SIP Proxy version (8.5.1)
Technical Support: http://www.cisco.com/techsupport Copyright (c) 1986-2010 by Cisco
Systems, Inc.

se-10-50-30-125# show sof
se-10-50-30-125# show software p
se-10-50-30-125# show software packages

Installed Packages:

- Installer (Installer application) (8.5.1)
- CUSP (Cisco Unified SIP Proxy) (8.5.1)
- Bootloader (Primary) (Service Engine Bootloader) (2.1.23)
- Infrastructure (Service Engine Infrastructure) (2.3.2.2)
- Global (Global manifest) (8.5.1)
- Bootloader (Secondary) (Service Engine Bootloader) (2.1.23.0)
- Core (Service Engine OS Core) (2.4.0.4)
- GPL Infrastructure (Service Engine GPL Infrastructure) (2.2.1.1)
SE-Module>
```




Installing the Cisco Unified SIP Proxy Release 8.5 Software Licenses

Last updated: December 6, 2016



Note

For a conceptual overview of the Cisco software activation process, see the [Software Activation Guide for Cisco Unity Express 7.1 and Later Versions](#).

- [About Cisco Unified SIP Proxy Release 8.5 Licenses, page 29](#)
- [Installing the Cisco Unified SIP Proxy Release 8.5 Licenses, page 29](#)

About Cisco Unified SIP Proxy Release 8.5 Licenses

The Cisco Unified SIP Proxy software features are enabled through a set of licenses installed on the Cisco Unified SIP Proxy module. For information about the Cisco Unified SIP Proxy licenses, see the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#), which provide detailed information on the licenses that may be used on the various supported devices.



Note

We do not support upgrading your licenses from Cisco Unified SIP Proxy Release 1.x to Cisco Unified SIP Proxy Release 8.5.

Installing the Cisco Unified SIP Proxy Release 8.5 Licenses

Beginning with Cisco Unified SIP Proxy Release 8.5, a new type of license system called Cisco Software Licensing (CSL) is supported.

You have two choices for installing and activating the Cisco Unified SIP Proxy software:

- If you ordered a new module with Cisco Unified SIP Proxy Release 8.5 included, it is shipped with the Cisco Unified SIP Proxy image and the corresponding licenses preinstalled for the packages and features that you specified. You do not need to activate or register the software prior to use. The module stores the software license file on the flash memory. You do not need to do anything.
- Manually install the Cisco Unified SIP Proxy licenses using the following process:

Procedure

-
- Step 1** Determine what functionality you want and which licenses you need. For a detailed description of the licenses, see the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#).
- Step 2** Obtain the license files. See the “[Obtaining New or Additional Licenses](#)” section on page 30.
- Step 3** Install the licenses and reload the device. See the “[Using the CLI to Install the Cisco Unified SIP Proxy Release 8.5 Licenses](#)” section on page 31.
-

Obtaining New or Additional Licenses

- [Required Information](#), page 30
- [Using the Licensing Portal to Obtain Licenses for Additional Features or Applications](#), page 30

Required Information

Gather the following information before you obtain new or additional CSL licenses:

- The SKU for the features that you need. The SKU is used in the ordering process to specify the desired licenses for the Cisco Unified SIP Proxy features that you want. See the [Release Notes for Cisco Unified SIP Proxy Release 8.5](#).
- The Product ID (PID) and the Serial Number (SN) from the device. Together, these form the unique device identifier (UDI). The UDI is printed on a label located on the back of most Cisco hardware devices or on a label tray visible on the front panel of field-replaceable motherboards. The UDI can also be viewed via software using the **show license udi** command in privileged EXEC mode.

Using the Licensing Portal to Obtain Licenses for Additional Features or Applications



Note You must have a Cisco.com password to access some of the URLs in the following procedure.

Follow these steps to obtain additional licenses for Cisco Unified SIP Proxy Release 8.5 features.

Procedure

-
- Step 1** Go to www.cisco.com/go/ordering and choose one of the ordering processes (via partner, Cisco direct, etc.) to order licenses. When you purchase a license, you will receive a product activation key (PAK), which is an alphanumeric string that represents the purchase.
- Step 2** To get your license file, return to the Cisco Product License Registration Portal at www.cisco.com/go/license. When prompted, enter the PAK and the unique device identifier (UDI) of the device where the license will be installed.
- Step 3** Download the license file or receive the license file by email.
- Step 4** Repeat the appropriate steps above for each device you want to obtain a license.
- Step 5** Copy the license file(s) to a FTP or TFTP server.
-

Using the CLI to Install the Cisco Unified SIP Proxy Release 8.5 Licenses

Follow these steps to install the licenses for Cisco Unified SIP Proxy Release 8.5.

Procedure

-
- Step 1** Log in to the CLI.
 - Step 2** Enter **license install** <URL>, where <URL> is the URL where you copied the license to in [Step 5 of Using the Licensing Portal to Obtain Licenses for Additional Features or Applications](#).
 - Step 3** Verify the license by entering either **show license** or **show software licenses**.
 - Step 4** Activate the new license by entering **license activate**.
 - Step 5** Reload the module by entering **reload** and confirming that you really want to reload the module.
 - Step 6** To remove a license, enter **license clear**.



Note You cannot remove evaluation licenses.

Related Topics

Refer to the [CLI Command Reference for Cisco Unified SIP Proxy Release 8.5](#) for information about the CLI commands.



Migrating from Cisco Unified SIP Proxy Release 1.x to Release 8.5

Last updated: December 6, 2016

- [About Migration, page 33](#)
- [Restrictions, page 33](#)
- [Prerequisites, page 34](#)
- [Summary Steps, page 34](#)
- [Detailed Steps, page 34](#)
- [Using the Boot Helper to Install the Software, page 35](#)
- [Related Topics, page 36](#)

About Migration

You cannot *upgrade* your system from Cisco Unified SIP Proxy Release 1.x to Release 8.5. However, you can *migrate* your system. Migration means that you can use an old configuration, but you have to reinstall the software system completely.



Caution

You must use the boot helper for the installation if you are moving from Release 1.x to Release 8.5.

To migrate from Release 1.x to Release 8.5 requires that you perform a clean install. A clean install wipes out all configuration and data; therefore, you must back up your configuration first. After you install the new system, you restore the configuration and data.

Use the information in this chapter along with the information in [Installing Cisco Unified SIP Proxy Release 8.5](#).

Restrictions

Although a best effort has been made to ensure backward compatibility, we recommend that you thoroughly inspect the backed up configuration to ensure that the data was not compromised.

Also follow all the restrictions in the [“Restrictions for Installing Cisco Unified SIP Proxy Release 8.5” section on page 10](#).

Prerequisites

Follow all the prerequisites in the “Prerequisites for Installing Cisco Unified SIP Proxy Release 8.5” section on page 11.

Summary Steps

1. **commit**
2. **write [erase | memory | terminal]**
3. **offline**
4. **backup {revisions *number* | server url *ftp-url* username *ftp-username* password *ftp-password*}**
5. **backup category {all | configuration | data}**
6. **continue**
7. Use the boot helper to install the software. See [Using the Boot Helper to Install the Software, page 35](#).
8. **offline**
9. **restore id *backup-id* category {all | configuration | data}**
10. **reload**

Detailed Steps

	Command or Action	Purpose
Step 1	<code>commit</code> Example: <code>se-10-0-0-0(cusp-config)# commit</code>	Enables the Cisco Unified SIP Proxy committable configuration changes to take effect.
Step 2	<code>write [erase memory terminal]</code> Example: <code>se-10-0-0-0# write memory</code>	Writes the running configuration to the startup configuration.
Step 3	<code>offline</code> Example: <code>se-10-0-0-0# offline</code> !!!WARNING!!!: Putting the system offline will terminate all active calls. Do you wish to continue[n]? : <code>y</code>	Enters offline mode. All calls are terminated. Note Cisco Unified SIP Proxy still routes calls in offline mode.

	Command or Action	Purpose
Step 4	<pre>backup {revisions number server url ftp-url username ftp-username password ftp-password}</pre> <p>Example: se-10-0-0-0(offline)# backup server url ftp://192.1.1.1/ username <ftp-username> password <ftp-password></p>	Configures the backup server.
Step 5	<pre>backup category {all configuration data}</pre> <p>Example: se-10-0-0-0(offline)# backup category all</p>	Specifies the type of data to be backed up and stored.
Step 6	<pre>continue</pre> <p>Example: se-10-0-0-0(offline)# continue</p>	Exits offline mode and returns the system to the previous online mode. The system begins processing new calls.
Step 7	Use the boot helper to install the software. See Using the Boot Helper to Install the Software, page 35 .	Installs the Cisco Unified SIP Proxy Release 8.5 image onto a system that has a Release 1.x image.
Step 8	<pre>offline</pre> <p>Example: se-10-0-0-0# offline !!!WARNING!!!: Putting the system offline will terminate all active calls. Do you wish to continue[n]? : y</p>	<p>Enters offline mode. All calls are terminated.</p> <p>Note Cisco Unified SIP Proxy still routes calls in offline mode.</p>
Step 9	<pre>restore id backup-id category {all configuration data}</pre> <p>Example: se-10-0-0-0(offline)# restore id <backup-id> category all</p>	Specifies the backup ID value and the file type to be restored.
Step 10	<pre>reload</pre> <p>Example: se-10-0-0-0(offline)# reload</p>	Activates the uploaded file information and restarts the Cisco Unified SIP Proxy system.

Using the Boot Helper to Install the Software

Before You Begin

Find the boot helper image at <http://www.cisco.com/cisco/software/type.html?mdfid=283138869&flowid=20463>. The file name is cusp-helper.nmx.8.5.1.

Procedure

Step 1 At the blade prompt, reload the blade which reboots the system.

- Step 2** While the system is rebooting, enter ******* to change to the boot configuration menu.
- Step 3** Enter **config**.
- Step 4** To specify the TFTP server, keep all the default values except for the following fields:
- At the TFTP server prompt, enter the IP address of your TFTP server.
 - At the Default helper-file prompt, enter the name of the boot helper image.
- Step 5** At the system prompt, enter **boot helper**.
The system installs the boot helper software.
- Step 6** When prompted, enter the following information:

Parameter	Description
Choice	Enter one of the following values: <ul style="list-style-type: none"> • 1 to install the software • 2 to reload the module • 3 to clean the disk
Package name	The name of the Cisco Unified SIP Proxy image to be installed. For a complete list of all the software download files, see the Release Notes for Cisco Unified Messaging Gateway Release 8.5 .
Server URL	The URL of the Cisco Unified SIP Proxy server.
User name	The user name of the user who is installing the software.
Password	The password of the user who is installing the software.

- Step 7** When the system asks if you want to continue, enter **yes**.
When the system has finished the installation, it reboots.

Related Topics

Refer to the [CLI Command Reference for Cisco Unified SIP Proxy Release 8.5](#) for information about the CLI commands.