



## **Cisco Unity Express 8.0 Installation and Upgrade Guide**

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## CONTENTS

<b>Overview of Cisco Unity Express 8.0 Software Installation</b>	<b>1</b>
Licensing System	2
Cisco Unity Express 8.0 Module Support	2
Support for SM-SRE-700-K9	2
Differences Between the AIM2-CUE, NME-CUE, and SRE Modules	2
Modules Not Supported	3
Checklist for New Software Installation	3
Types of Cisco Unity Express Software Upgrades	4
Software Upgrade Overview	4
Platforms and Cisco IOS Software Images	5
Uninterruptible Power Supply Recommendations	5
Software Licenses and Factory-Set Limits	5
Additional References	6
Related Cisco Unity Express Documents	6
Related Cisco IOS Documents	6
MIBs	6
RFCs	7
Technical Assistance	8
<b>Prerequisites for Installing Cisco Unity Express Software</b>	<b>9</b>
Prerequisites for Cisco Unified Communications Manager Express	9
Prerequisites for Cisco Unified Communications Manager	13
<b>Installing Cisco Unity Express 8.0 Software</b>	<b>17</b>
Task List	17
Activating IP Connectivity to Cisco Unity Express Software	18
Prerequisites	18
Examples	20
Adding or Removing Languages	20
Installing Additional Languages	20
Prerequisites	20
Restrictions	20
Examples	22

Removing a Language	23
What to Do Next	24
<b>Installing Cisco Unity Express 8.0 Software on Services Ready Engine (SRE) Modules</b>	<b>25</b>
Overview	25
Task List	26
Activating IP Connectivity to Cisco Unity Express Module	26
Prerequisites	26
Examples	28
Installing the Cisco Unity Express Application on the SRE Module	28
Monitoring the Installation Status	30
Uninstalling the Cisco Unity Express Application from the SRE Module	31
What to Do Next	32
<b>Upgrading to Cisco Unity Express 8.0</b>	<b>33</b>
Preparing for Your Upgrade	33
Introduction to Upgrade Procedures	34
Prerequisites	34
Upgrading to Cisco Unity Express 8.0 for New Installations	35
Task List	35
Downloading and Installing a New Software Image	35
Upgrading to Cisco Unity Express 8.0 for Existing Installations	41
Task List	42
Downloading and Installing an Upgrade Image	42
What to Do Next	47
<b>Reinstalling a Cisco Unity Express Image Using the Boothelper</b>	<b>49</b>
Prerequisites	49
Task List	50
Downloading the Software Files	50
What to Do Next	51
Entering Configuration Parameter Values	52
What to Do Next	53
Installing Software Image Files	53
Prerequisites	53
What to Do Next	58
<b>Upgrading or Downgrading the Cisco Unity Express License in the Same Version</b>	<b>59</b>
New License System	59

Installation Sequence	60
Mailbox Licenses	60
Voice Port Licenses	60
Interactive Voice Response Licenses	60
Task List	60
Changing Your IVR License	61
What to Do Next	61
<b>Appendix A: Backing Up Files</b>	<b>63</b>
Numbering Scheme for Backup Files	63
Prerequisite	63
<b>Appendix B: Restoring Files</b>	<b>65</b>
<b>Appendix C: Language Upgrade Preparation</b>	<b>67</b>
Updating Language Support for Specific Voice-Mail Users	67
Updating the System Audio Prompt Languages	68
Updating the Application Prompt Languages in Triggers	68
Updating Custom Autoattendant Steps	69
Verifying the New Language Support	69





# Overview of Cisco Unity Express 8.0 Software Installation

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

Use the tasks and procedures in this guide before performing the administrative tasks described in the [Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions](#).



## Note

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Use this guide for a Cisco Unity Express installation or upgrade. It does not provide information on installation of Cisco routers, Cisco network modules, the Cisco Unified Communications Manager, or the Cisco Unified Communications Manager Express router. For late-breaking information about this version of Cisco Unity Express, see the [Release Notes for Cisco Unity Express 8.0](#).

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This chapter contains the following sections:

- [Licensing System, page 2](#)
- [Cisco Unity Express 8.0 Module Support, page 2](#)
- [Checklist for New Software Installation, page 3](#)
- [Types of Cisco Unity Express Software Upgrades, page 4](#)
- [Platforms and Cisco IOS Software Images, page 5](#)
- [Uninterruptible Power Supply Recommendations, page 5](#)
- [Software Licenses and Factory-Set Limits, page 5](#)
- [Additional References, page 6](#)

# Licensing System

Cisco Unity Express 8.0 supports the Cisco Software Licensing (CSL) system. With CSL licenses, the mailbox license count includes both personal mailboxes and General Delivery Mailboxes (GDMs). The type of the mailbox is determined when it is configured. Also, the call-agent is no longer specified using licenses and can be configured either as part of post-install process during bootup or using the CLI or GUI. The system must be rebooted for the call agent configuration to take effect if it is configured using the the CLI or GUI.

CSL licensing is explained further in this guide and in [Software Activation for Cisco Unity Express 7.1 and Later Versions](#).

## Cisco Unity Express 8.0 Module Support

This section describes Cisco Unity Express 8.0 module support. It is divided into the following sections:

- [Support for SM-SRE-700-K9, page 2](#)
- [Differences Between the AIM2-CUE, NME-CUE, and SRE Modules, page 2](#)
- [Modules Not Supported, page 3](#)
- [Modules Not Supported, page 3](#)

## Support for SM-SRE-700-K9

Cisco Unity Express 8.0 adds support for the the SM-SRE-700-K9 Service Ready Engine (SRE) module. This module is supported only on the Cisco 2900 Series and Cisco 3900 Series routers. For more information about the capacity for scripts and prompts, and other specifications for this module, see the [Release Notes for Cisco Unity Express 8.0](#).

The Cisco Unity Express application is normally pre-installed on these modules at the factory. However, there may be cases where the software may need to be re-installed. For more information, see the [“Installing Cisco Unity Express 8.0 Software on Services Ready Engine \(SRE\) Modules” section on page 25](#).

## Differences Between the AIM2-CUE, NME-CUE, and SRE Modules

Cisco Unity Express 8.0 is supported on the advanced integration module (AIM2-CUE) and the enhanced network module (NME-CUE). The AIM2-CUE is a replacement module for the AIM-CUE, but all software functionality and system capacity is the same on both modules unless otherwise documented. The ISM-SRE and SM-SRE modules are for use with Cisco Integrated Services Router Generation 2 router platforms only.



### Note

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The AIM-CUE module is not supported in Cisco Unity Express 8.0.

---

Cisco Unity Express features work the same way on these modules with the following exceptions:

- Physical differences:
  - The AIM2-CUE is a 6-port module that stores a maximum of 65 voice mailboxes and 14 hours of voice messages.

- The NME-CUE is a 24-port module that stores a maximum of 275 voice mailboxes and 300 hours of voice messages.
- The ISM-SRE-300-K9 module is a 10-port module that stores a maximum of 100 mailboxes and 60 hours of voice messages. This module is supported on Cisco 2900 Series and Cisco 3900 Series routers only.
- The SM-SRE-700-K9 module is a 32-port module that stores a maximum of 500 mailboxes and 600 hours of voice messages. This module is supported on Cisco 2900 Series and Cisco 3900 Series routers only.
- A **trace** or **log** command used on the NME-CUE and SM-SRE automatically saves the data to the disk. On the AIM2-CUE and ISM-SRE, the trace and log data are not saved to flash memory. The **log trace buffer save** command is available to save the data to the AIM2-CUE and ISM-SRE flash memory.
- The different hardware modules support different capacities for scripts and prompts. See the [Release Notes for Cisco Unity Express 8.0](#) for these capacities.

## Modules Not Supported

The AIM-CUE, NM-CUE and NM-CUE-EC are not supported in Cisco Unity Express 8.0.

## Checklist for New Software Installation

A new Cisco Unity Express installation requires the following procedures:

**Table 1** Task List for Cisco Unity Express New Software Installation

Checklist	Checkoff
1. Activate the Cisco Unity Express software licenses. See <a href="#">Software Activation for Cisco Unity Express 7.1 and Later Versions</a> .	<input type="checkbox"/>
2. Review the prerequisites for your system to prepare for the Cisco Unity Express installation. See “ <a href="#">Prerequisites for Installing Cisco Unity Express Software</a> ” on page 9.	<input type="checkbox"/>
3. Perform a “clean” installation or an upgrade from a previous version. See “ <a href="#">Upgrading to Cisco Unity Express 8.0</a> ” on page 33.	<input type="checkbox"/>
4. For “clean” installations, configure the required components of Cisco Unity Express as described in “ <a href="#">Installing Cisco Unity Express 8.0 Software</a> ” on page 17. For upgrades from a previous version, optionally perform the steps described in “ <a href="#">Adding or Removing Languages</a> ” on page 20.	<input type="checkbox"/>
5. Configure other components and subscribers. See the <a href="#">Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions</a> .	<input type="checkbox"/>

# Types of Cisco Unity Express Software Upgrades

Three procedures are available for upgrading Cisco Unity Express software. Your choice depends on your platform, the version you are upgrading from, and whether or not you want to erase your existing configuration and voicemail data.

For a complete list of versions and the upgrade processes available for them, see the [Release Notes for Cisco Unity Express 8.0](#).

## Software Upgrade Overview

Depending on the Cisco Unity Express version you are upgrading from and your platform, different software upgrade methods are available. The following methods are supported to upgrade to Cisco Unity Express 8.0:

- Upgrade using the online installer with the **software install upgrade** command. For specific instructions, see [“Upgrading to Cisco Unity Express 8.0 for Existing Installations”](#) on page 41.
- A “clean” installation process upgrade using the online installer with the **software install clean** command. For specific instructions, see [“Upgrading to Cisco Unity Express 8.0 for New Installations”](#) on page 35.
- A “clean” installation process upgrade using the boothelper. For specific instructions, see [“Reinstalling a Cisco Unity Express Image Using the Boothelper”](#) on page 49. Note that this upgrade process is recommended primarily for emergency situations when your system is not responding as required.



### Caution

If you upgrade using either of the “clean” installation processes, the existing configuration files on the system are not preserved. Any voice mail, greetings, or passwords configured on the system are lost.

To preserve your configuration, you must back up the existing configuration files before performing the upgrade and restore them after the upgrade. If you do not back up your configuration files before performing the upgrade, you will have to reconfigure Cisco Unity Express.

When planning your software upgrade, consider the following:

- If you upgrade the software using the online installer, downgrading to an earlier software version is not supported.
- When you upgrade from a release earlier than Cisco Unity Express 7.1, you must migrate from pre-CSL licenses to CSL licenses. For more information, see [Software Activation for Cisco Unity Express 7.1 and Later Versions](#).



### Note

In versions prior to Cisco Unity Express 7.1, licenses were purchased for the specific call agents, Cisco Unified Communications Manager or Cisco Unified Communications Manager Express. In version 7.1 and later, the licenses cover both call agents, and the specific call agent is selected during the installation process.

- If your system is using an AIM-CUE module you must upgrade to the AIM2-CUE module before upgrading the software to Cisco Unity Express 8.0.

- Downgrading to a license with support for fewer personal mailboxes is not supported. If you want to change the system to support fewer mailboxes, and you cannot restore any previous backups on the larger system, then you must purchase a new license and perform a new installation.

## Platforms and Cisco IOS Software Images

Cisco Unity Express applications use a set of commands that are similar in structure to Cisco IOS software commands. However, Cisco Unity Express commands do not affect the Cisco IOS configuration.

Cisco Unity Express hardware modules and platforms use the Cisco IOS commands for their operation.

See the [Release Notes for Cisco Unity Express 8.0](#) for detailed information about the supported Cisco Unity Express software images and hardware platforms.

## Uninterruptible Power Supply Recommendations

We highly recommend attaching an uninterruptible power supply (UPS) to the router that houses the Cisco Unity Express module. Any reliable UPS unit provides continuous power to maintain the operation of the router and the Cisco Unity Express module. Consider the unit's capacity and run time because power consumption differs among Cisco platforms. Ideally, a UPS includes a signaling mechanism that directs the router to shut down Cisco Unity Express properly and then powers off the router.

Automatic switchover to the UPS device (connected to aux 0) is supported if the following configuration is added to the router:

**Note**

---

In the following, *slot* is the Cisco Unity Express module's slot number.

---

```
line aux 0
privilege level 15
modem Dialin
autocommand service-module service-engine slot/0 shutdown no-confirm
```

## Software Licenses and Factory-Set Limits

Factory-set system limits are determined by the license you have purchased. On the ISM-SRE-300-K9, SM-SRE700-K9, and the NME-CUE, Cisco Unity Express 8.0 supports a maximum of 16 SIP triggers and 16 JTAPI triggers for all applications combined. On the AIM2-CUE, Cisco Unity Express 8.0 supports a maximum of 8 SIP triggers and 8 JTAPI triggers for all applications combined.

System limits and license information for the hardware modules, and information about Interactive Voice Response (IVR) licenses are in the [Release Notes for Cisco Unity Express 8.0](#).

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

Further information about the Cisco Unity Express Open Source Software Licenses is provided at: [http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/unity\\_exp/rel7\\_1/Licensing/COSI\\_Licences.html](http://www.cisco.com/en/US/docs/voice_ip_comm/unity_exp/rel7_1/Licensing/COSI_Licences.html)

## Additional References

This section describes additional references of information regarding Cisco Unity Express.

### Related Cisco Unity Express Documents

Related Topic	Document Title
Activating Cisco Unity Express software licenses.	<a href="#">Software Activation for Cisco Unity Express 7.1 and Later Versions</a>
Cisco Unity Express, including links to Cisco Unity Express hardware documentation	<a href="#">Cisco Unity Express Documentation, By Version</a>

### Related Cisco IOS Documents

Related Topic	Document Title
Cisco IOS configuration	<a href="#">Cisco IOS Voice Configuration Library, Release 12.4T</a> <a href="#">Cisco IOS Voice Port Configuration Guide, Release 15.0</a> <a href="#">Dial Peer Configuration on Voice Gateway Routers, Release 15.0</a> <a href="#">Cisco IOS Debug Command Reference</a> <a href="#">Cisco IOS Voice Command Reference</a>
Cisco IOS voice troubleshooting information	<a href="#">Cisco IOS Voice Troubleshooting and Monitoring Guide</a>

### MIBs

MIBs	MIBs Link
<ul style="list-style-type: none"> <li>• CISCO-UNITY-EXPRESS-MIB</li> <li>• CISCO-VOICE-CONNECTIVITY-MIB</li> <li>• CISCO-VOICE-APPLICATIONS-OID-MIB</li> <li>• CISCO-PROCESS-MIB</li> <li>• SNMPv2-MIB</li> <li>• IF-MIB</li> <li>• IP-MIB</li> <li>• SYSAPPL-MIB</li> </ul>	<p>To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:</p> <p><a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a></p>

## RFCs

<b>RFCs</b>	<b>Title</b>
1869	<i>SMTP Service Extensions</i>
1893	<i>Enhanced Mail System Status Codes</i>
2045	<i>Multipurpose Internet Mail Extensions Part One: Format of Internet Message Bodies, RFC</i>
2421	<i>Voice Profile for Internet Mail - Version 2</i>
2821	<i>Simple Mail Transfer Protocol</i>
2833	<i>RTP Payloads for DTMF Digits, Telephony Tones and Telephony Signals</i>
3261	<i>SIP: Session Initiation Protocol</i>
3501	<i>Internet Message Access Protocol - Version 4 rev1</i>
2327	<i>SDP: Session Description Protocol</i>
3263	<i>SIP: Session Initiation Protocol: Locating SIP Servers</i>
3264	<i>Offer/Answer Model With Session Description Protocol</i>
3265	<i>Session Initiation Protocol (SIP)-Specific Event Notification</i>
3515	<i>Session Initiation Protocol (SIP) Refer Method</i>
3842	<i>Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)</i>
3891	<i>Session Initiation Protocol (SIP) "Replaces" Header</i>
3892	<i>Session Initiation Protocol (SIP) Referred-By Mechanism</i>

## 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 Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<p><a href="http://www.cisco.com/techsupport">http://www.cisco.com/techsupport</a></p>



# Prerequisites for Installing Cisco Unity Express Software

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**Last Updated: December 10, 2010**

This chapter describes the prerequisites for installing the Cisco Unity Express software on your system and contains the following sections:

- [Prerequisites for Cisco Unified Communications Manager Express, page 9](#)
- [Prerequisites for Cisco Unified Communications Manager, page 13](#)

See [Cisco Unity Express Documentation, By Version](#) for the hardware installation documentation for your Cisco Unity Express module. See [Software Activation for Cisco Unity Express 7.1 and Later Versions](#) for information on activating Cisco Unity Express software licenses.

## Prerequisites for Cisco Unified Communications Manager Express



**Note**

---

This section applies to a new installation of Cisco Unity Express 8.0.

---

If you are using Cisco Unified Communications Manager Express (Cisco Unified CME) on your Cisco Unity Express system, then Cisco Unified CME must be installed before you configure Cisco Unity Express. If you did not or are not performing the Cisco Unified CME installation, contact the designated installer to ensure that the following procedures are completed:

1. Verify that the version of Cisco Unified CME is compatible with Cisco Unity Express 8.0. See the [Cisco Unity Express Compatibility Matrix](#).
2. Install all Cisco Unified CME and Cisco Unity Express hardware and verify functionality.
  - a. Attach the telephones so that they register with the Cisco Unified CME router. Configure the telephones and subscribers and save them to the Cisco Unified CME database. The Cisco Unity Express initialization wizard allows you to copy this data to the Cisco Unity Express database. You can create additional subscribers and telephones later using the Cisco Unity Express CLI commands or GUI options.

Use the following sample ephone-dn and ephone configurations to configure the telephones and subscribers manually:

```

ephone-dn 1 <---- ephone dn configuration for a user
  number 8004
  name User1
  call-forward busy 6900
  call-forward noan 6900 timeout 10
!
!
ephone-dn 20 <---- ephone dn configuration for a group
  number 8801
  name Salesgroup
  call-forward busy 6900
  call-forward noan 6900 timeout 10

ephone 1 <--- ephone configured for the ephone-dn configured above
  username "Salesgroup" password null
  mac-address 0009.B7F7.556A
  button 1:1 2:20 3:21 4:22 5:23

```

- b. Verify that the Cisco Unity Express router is configured with a Cisco IOS release that supports the Cisco Unity Express hardware module you are using. For information on the minimum Cisco IOS release required to support these modules, see the [Release Notes for Cisco Unity Express 8.0](#).
- c. Verify that the Enable LED is lit on the Cisco Unity Express hardware module.

**Note**

See [“Uninterruptible Power Supply Recommendations” on page 5](#).

### 3. Install and verify Cisco Unified CME software functionality.

Depending on the version of Cisco Unified CME, you can perform some configuration using the Cisco Unified CME graphical user interface. If the version of Cisco Unified CME does not support the GUI, see the [Cisco Unified Communications Manager Express Administrator Guide](#). If your version of Cisco Unified CME supports the GUI, proceed with the following steps:

- a. Verify that you have web connectivity to the Cisco Unified CME configuration webpage at <http://cisco-unified-cme-router-ipaddress/ccme.html>.
- b. Verify that the Cisco Unified CME router flash memory has the following files, which control the functionality of the Cisco Unity Express GUI:
  - CiscoLogo.gif
  - Delete.gif
  - Plus.gif
  - Tab.gif
  - admin\_user.html
  - admin\_user.js
  - dom.js
  - downarrow.gif
  - ephone\_admin.html
  - logohome.gif
  - normal\_user.html

- normal\_user.js
- sxiconad.gif
- telephony\_service.html
- uparrow.gif
- xml-test.html
- xml.template

c. Configure the following path in Cisco Unified CME configuration mode:

```
Router(config)# ip http path flash:
```

d. Verify the path with the **show running-config** command.

e. Configure IP connectivity between the router and the Cisco Unity Express module. The module has an internal IP address and a default gateway configuration. The router has a service-engine interface with an IP address, which might be unnumbered.

Using the **ip unnumbered** command for configuration allows the Cisco Unity Express module to use a network subnet IP address associated with a specific router egress port such as FastEthernet0/0. This method requires a static route to the service-engine interface. The router interface associated with the Cisco Unity Express interface must be in an “up” state at all times for communication between the router and module.

Copy the IP address of the Cisco Unity Express module because you need it to access the GUI to configure the system. In the following example, 10.3.6.128 is the IP address of the Cisco Unity Express module and Service-Engine1/0 is the router slot hosting the Cisco Unity Express module:

```
interface FastEthernet0/0
  ip address 10.3.6.1 255.255.255.0
  .
  .
  .
interface Integrated-Service-Engine1/0
  ip unnumbered FastEthernet0/0
  service-module ip address 10.3.6.128 255.255.255.0
  service-module ip default-gateway 10.3.6.1
  .
  .
  .
ip route 10.3.6.128 255.255.255.255 Service-Engine1/0
```



**Note**

If your network uses a VLAN interface with an EtherSwitch module, use the example above and replace both instances of “FastEthernet0/0” with “VLAN1.”

The example above applies to the NME-CUE. The command to enter interface configuration mode is different depending on the Cisco Unity Express module. Table 2 shows the different commands used for each module.

**Table 2** Interface Configuration Mode Commands for Cisco Unity Express Modules

Cisco Unity Express Module	Command to Enter Interface Configuration Mode
ISM-SRE-300-K9	<code>interface ism slot/unit</code>
SM-SRE-700-K9	<code>interface sm slot/0</code>
NME-CUE	<code>interface integrated-service-engine slot/unit</code>
AIM2-CUE	<code>interface internal-service-module slot/unit</code>

- f. Verify that a SIP dial peer is configured to point to the Cisco Unity Express module, that it specifies G.711 u-law and SIP Notify for DTMF Relay, and that VAD is turned off. This step is required to have an incoming call directed to Cisco Unity Express 8.0. The following is an example configuration:

```
dial-peer voice 6000 voip <----- SIP dial peer pointing to Cisco Unity Express
destination-pattern 6...
session protocol sipv2
dtmf-relay sip-notify
session target ipv4:10.3.6.128 <---- Cisco Unity Express IP address
codec g711ulaw
no vad
```

- g. Configure the appropriate number of SIP dial peers to support your dial plan.
- h. Verify that a Cisco Unified CME web administrator is configured with a username and password, for example:

```
telephony-service
.
.
.
web admin system name admin password user1
```

or

```
web admin system name admin secret 5 encrypted-password
```



**Note** If you plan to use the Cisco Unity Express GUI for configuration purposes, configure an administrator username with a password in the Cisco Unified CME interface. You must log in to the GUI as this user. If no administrator user is created in Cisco Unified CME, the administrator cannot proceed with the initialization wizard in the Cisco Unity Express GUI.

- The FTP server that communicates with Cisco Unity Express must support passive FTP requests. To configure this functionality on the FTP server, see the FTP server documentation.
- (Optional) If no subscribers were created in the Cisco Unified CME interface, create a list of all subscribers, groups, and their extensions to simplify the task of configuring many subscribers and extensions.



**Note** Designate a primary extension for each subscriber who will receive voice-mail messages. Cisco Unity Express does not activate the MWI for an E.164 number.

# Prerequisites for Cisco Unified Communications Manager

If you are using Cisco Unified Communications Manager on your Cisco Unity Express system, then Cisco Unified Communications Manager must be installed before the Cisco Unity Express configuration can be started.

If you did not or are not performing the Cisco Unified Communications Manager installation, contact the designated installer to ensure that the following procedures are completed:

1. Verify that the version of Cisco Unified Communications Manager is compatible with Cisco Unity Express 8.0. See the [Cisco Unity Express Compatibility Matrix](#).
2. (Required) Install all Cisco Unified Communications Manager and Cisco Unity Express hardware and verify functionality. See [Cisco Unity Express Documentation, By Version](#) for the hardware installation documentation for your module.
  - a. Attach the telephones so that they register with the Cisco Unified Communications Manager server.
  - b. Verify that the Enable LED is lit on the Cisco Unity Express hardware module.



---

**Note** See the [“Uninterruptible Power Supply Recommendations”](#) section on page 5.

---

3. (Required) Install and verify Cisco Unified Communications Manager software functionality.
  - a. You must be able to access the Cisco Unified Communications Manager configuration webpage.
  - b. Configure IP connectivity between the router and the Cisco Unity Express module. The module has an internal IP address and a default gateway configuration. The router has a service-engine interface with an IP address, which might be unnumbered.

Use the **ip unnumbered** command to allow the Cisco Unity Express module to use a network subnet IP address associated with a specific router egress port, such as FastEthernet0/0. This method requires a static route to the service-engine interface. The router interface associated with the Cisco Unity Express interface must be in an “up” state at all times for communication between the router and module.

Copy the IP address of the Cisco Unity Express module because you need it to access the GUI to configure the system. In the following example, 10.3.6.128 is the IP address of the Cisco Unity Express module and Service-Engine1/0 is the router slot hosting the Cisco Unity Express module:

```
interface FastEthernet0/0
  ip address 10.3.6.1 255.255.255.0
.
interface Service-Engine1/0
  ip unnumbered FastEthernet0/0
  service-module ip address 10.3.6.128 255.255.255.0
  service-module ip default-gateway 10.3.6.1
.
ip route 10.3.6.128 255.255.255.255 Service-Engine1/0
```



---

**Note** If your network uses a VLAN interface with an EtherSwitch module, use the example above and replace both instances of “FastEthernet0/0” with “VLAN1.”

---

The example above applies to the NME-CUE. The command to enter interface configuration mode is different depending on the Cisco Unity Express module. Table 3 shows the different commands used for each module.

**Table 3** Interface Configuration Mode Commands for Cisco Unity Express Modules

Cisco Unity Express Module	Command to Enter Interface Configuration Mode
ISM-SRE-300-K9	<b>interface ism</b> <i>slot/unit</i>
SM-SRE-700-K9	<b>interface sm</b> <i>slot/0</i>
NME-CUE	<b>interface integrated-service-engine</b> <i>slot/unit</i>
AIM2-CUE	<b>interface internal-service-module</b> <i>slot/unit</i>

- c. On the Cisco Unified Communications Manager, configure 24 CTI ports for a Cisco Unity Express system with an NME-CUE module. For the AIM2-CUE, configure 6 CTI ports on Cisco Unified Communications Manager. For the ISM-SRE-300-K9, configure 10 CTI ports on Cisco Unified Communications Manager. For the SM-SRE-700-K9, configure 32 CTI ports. Use the Cisco Unified Communications Manager option **Device > Phones > Add new Phone**. These ports will be used by the Cisco Unity Express applications (voice mail, autoattendant, and Administration via Telephone [AvT]) to terminate calls.

Do not configure extra CTI ports on Cisco Unified Communications Manager. Doing so will impact the scalability of your Cisco Unified Communications Manager and will limit the number of other devices it can support.

- d. Configure at least two Cisco Unified Communications Manager route points on Cisco Unified Communications Manager using the **Device > CTI Route Point** option. The Cisco Unity Express voice-mail application uses one route point, and the autoattendant application uses one route point. If you plan to use the Cisco Unity Express AvT, configure a third route point on Cisco Unified Communications Manager. You need as many route points as the number of call-in numbers on Cisco Unity Express.



**Note** Do not configure extra route points on Cisco Unified Communications Manager. Doing so will impact the scalability of your Cisco Unified Communications Manager and will limit the number of other devices that Cisco Unified Communications Manager can support.

- e. Create a Cisco Unified Communications Manager JTAPI user with the **User > Add new user** option. Use the **Device Association** option to associate the CTI ports and route points with this JTAPI user. (The JTAPI user is not assigned a Cisco Unity Express voice mailbox. It is a placeholder for Cisco Unity Express to establish a connection with Cisco Unified Communications Manager.) Verify that the Enable CTI Application Use check box is checked for this JTAPI user.
- f. Verify that the AXL service is active. To do this, go to the Cisco Unified Communications Manager serviceability website, click **Tools > Service Activation**. Look for Cisco AXL Web service.
- g. For efficient call processing, configure access lists on the Cisco Unity Express router to prioritize JTAPI traffic. For example:

```
class-map match-all jtapi
  match access-group 110
class-map match-all voice
  match access-group 100
```

```
policy-map jtapi
  class jtapi
    set dscp cs3
    bandwidth 20
  class voice
    set dscp af31
    priority 320
  class class-default
    fair-queue

interface Serial0/1
  ip address 192.168.10.0 255.255.255.0
  service-policy output jtapi
  clockrate 256000
  no cdp enable

access-list 100 permit udp host 10.3.6.128 any range 16383 32727
access-list 110 permit tcp host 10.3.6.128 any eq 2748
```

where 10.3.6.128 is the IP address of the module that contains Cisco Unity Express.

The output from the **show policy-map interface** command should indicate that the marked packets number is increasing. For example:

```
Match: access-group 110
QoS Set
  dscp cs3
  Packets marked 334 <-----This number should increase.
```

4. The FTP server that communicates with Cisco Unity Express must support passive FTP requests. To configure this functionality on the FTP server, see the FTP server documentation.
5. (Optional) If no subscribers were created in the Cisco Unified Communications Manager interface, create a list of all subscribers, groups, and their extensions to simplify the task of configuring many subscribers and extensions.





# Installing Cisco Unity Express 8.0 Software

**Last Updated: June 2, 2010**

After ensuring that the prerequisites described in the “[Prerequisites for Installing Cisco Unity Express Software](#)” section on page 9 are completed, the Cisco Unity Express software is ready to be installed. This chapter describes how to install Cisco Unity Express software and contains the following information and procedures:

- [Task List](#), page 17
- [Activating IP Connectivity to Cisco Unity Express Software](#), page 18
- [Adding or Removing Languages](#), page 20

## Task List



### Note

When you order Cisco Unity Express, Cisco Unity Express software and the purchased license are installed on the module at the factory. Spare modules also ship with the software and license installed.

The following procedures are required to perform a new installation of Cisco Unity Express:

**Table 4**      **Task List for Performing a New Installation of Cisco Unity Express**

Checklist	Checkoff
1. Create the Cisco Unity Express administrator username and password and specify the IP addresses for the DNS server and NTP server. This username and password is needed to log in to the initialization wizard. See the <a href="#">Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions</a> and the GUI online help.	<input type="checkbox"/>
2. Configure the IP addressing between the module and the router. See the “ <a href="#">Activating IP Connectivity to Cisco Unity Express Software</a> ” section on page 18.	<input type="checkbox"/>
3. Add or remove languages. See the “ <a href="#">Adding or Removing Languages</a> ” section on page 20.	<input type="checkbox"/>

**Table 4** Task List for Performing a New Installation of Cisco Unity Express (continued)

Checklist	Checkoff
<p>4. Begin configuring the Cisco Unity Express software. See the <a href="#">Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions</a> and the GUI online help for the configuration tasks.</p> <p><b>Note</b> If you want to use CLI commands to perform the configuration tasks covered by the initialization wizard (for example, if you want to use a configuration script), you can skip the initialization wizard by using the <b>web skipinitwizard</b> command in Cisco Unity Express EXEC mode. This command turns off the initialization wizard. You cannot turn it on or restart it unless you reimage the Cisco Unity Express module.</p>	<input type="checkbox"/>

## Activating IP Connectivity to Cisco Unity Express Software

Before installing the Cisco Unity Express software, activate the IP communication link between the Cisco Unified Communications Manager system and the Cisco Unity Express module.

### Prerequisites

The following information is required for activating the software:

- Slot and unit numbers of the Cisco Unity Express module on the Cisco IOS router that hosts Cisco Unity Express
- IP address and subnet mask of the Cisco IOS router that hosts Cisco Unity Express or the unnumbered interface type and number
- IP address of the Cisco Unity Express module. This IP address must be on the same subnet as the Cisco IOS router that hosts Cisco Unity Express.
- IP address of the default gateway of the Cisco Unity Express router. This IP address must be the same IP address as the Cisco IOS router that hosts Cisco Unity Express.

### SUMMARY STEPS

#### 1. Choose one of the following:

For the ISM-SRE-300-K9, enter:

```
interface ism slot/unit
```

For the SM-SRE-700-K9, enter:

```
interface sm slot/0
```

For the NME-CUE, enter:

```
interface integrated-service-engine slot/unit
```

For the AIM2-CUE, enter:

```
interface internal-service-module slot/unit
```

2. **ip address** *router-ip-addr subnet-mask*  
or  
**ip unnumbered** *type number*
3. **service-module ip address** *cue-side-ip-addr subnet-mask*
4. **service-module ip default-gateway** *gw-ip-addr*
5. **exit**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Choose one of the following:	
	<b>interface ism</b> <i>slot/unit</i>	Enters interface configuration mode on the ISM-SRE-300-K9.
	<b>Example:</b> Router(config)# interface ism 0/1	
	<b>interface sm</b> <i>slot/0</i>	Enters interface configuration mode on the SM-SRE-700-K9.
	<b>Example:</b> Router(config)# interface sm 1/0	
	<b>interface integrated-service-engine</b> <i>slot/unit</i>	Enters interface configuration mode on the NME-CUE.
	<b>Example:</b> Router(config)# interface integrated-service-engine 2/0	
	<b>interface internal-service-module</b> <i>slot/unit</i>	Enters interface configuration mode on the AIM2-CUE.
	<b>Example:</b> Router(config)# interface internal-service-module 0/1	
<b>Step 2</b>	Choose one of the following:	
	<b>ip address</b> <i>router-ipaddr subnet-mask</i>	Specifies the IP address and subnet mask of the Cisco IOS router hosting Cisco Unity Express.
	<b>Example:</b> Router(config-if)# ip address 172.16.231.195 255.255.0.0	
	or	
	Router(config-if)# <b>ip unnumbered</b> <i>type number</i>	Specifies the interface <i>type</i> and <i>number</i> for the Cisco IOS router hosting Cisco Unity Express.
	<b>Example:</b> Router(config-if)# ip unnumbered FastEthernet 0/0	

	Command or Action	Purpose
Step 3	<pre><b>service-module ip address</b> <i>cue-side-ipaddr</i> <i>subnet-mask</i></pre> <p><b>Example:</b> Router(config)# <b>service-module ip address</b> 172.16.231.190 255.255.0.0 </p>	Specifies the IP address of the Cisco Unity Express module interface. This IP address must be on the same subnet as the Cisco IOS router that hosts Cisco Unity Express.
Step 4	<pre><b>service-module ip default-gateway</b> <i>gw-ipaddr</i></pre> <p><b>Example:</b> Router(config)# <b>service-module ip default-gateway</b> 172.16.231.195 </p>	Specifies the IP address of the Cisco IOS router that hosts Cisco Unity Express.
Step 5	<pre><b>exit</b></pre> <p><b>Example:</b> Router(config-if)# <b>exit</b> </p>	Exits interface configuration mode.

## Examples

The following example illustrates the IP connectivity activation procedure:

```
Router(config)# interface Integrated-Service-Engine 1/0
Router(config-if)# ip address 10.0.0.9 255.0.0.0
Router(config-if)# service-module ip address 10.0.0.10 255.0.0.0
Router(config-if)# service-module ip default-gateway 10.0.100.10
Router(config-if)# exit
```

## Adding or Removing Languages

Installing additional languages or removing languages must be done in online mode only. You cannot add or remove languages using the boothelper except when you perform a complete installation of the Cisco Unity Express software. For instructions on doing this, see [“Installing Cisco Unity Express 8.0 Software” on page 17](#).

## Installing Additional Languages

### Prerequisites

The following information is required for installing languages:

- URL of the FTP server.

### Restrictions

- You are limited to 2 concurrent languages with an AIM2-CUE module license
- You are limited to 5 concurrent languages with an NME-CUE, ISM-SRE-300-K9, or SM-SRE-700-K9 module license

**Note**

See the “[Upgrading or Downgrading the Cisco Unity Express License in the Same Version](#)” section on [page 59](#).

**SUMMARY STEPS**

1. **config t**
2. **software download server url ftp://server-ip-address[/dir] [username username password password]**
3. **exit**
4. **software install add cue-vm-langpack.plat.ver.pkg** (language package file)
5. Select the language from the list shown by the above command.

The key to the placeholders in the above-mentioned filename is in [Table 5](#).

**Table 5** Download File Variable Key

Placeholder	Explanation
<i>plat</i>	Platform for which the image is built. The options are as follows: nmx - For the AIM2-CUE and NME-CUE modules sme - For the ISM-SRE and SM-SRE modules ise - For the Integrated Services Engine (ISE) modules
<i>ver</i>	Cisco Unity Express release Package version. Examples are 8.0.1, 8.0.2, and so on.
<i>lang</i>	Language code. Examples are en_US, fr_FR, it_IT, and so on.

**DETAILED STEPS**

- 
- Step 1** Use **config t** to enter configuration mode.
- Step 2** Enter **software download server url ftp://server-ip-address[/dir][username username password password]** where
- *server-ip-address* is the URL of the FTP server
  - *username* is the name of the valid user on the FTP server
  - *password* is the username’s password to allow access to the FTP server
- Step 3** Enter **exit** to exit configuration mode.
- Step 4** Enter **software install add cue-vm-langpack.plat.ver.pkg**.
- Step 5** Select the language from the list shown by the above command.
-

## Examples

The following example illustrates choosing additional languages.

```

Language add-ons found on the system (1):
Installed SKU Name (version)
-----
* ENU CUE Voicemail US English (8.0.1.0)
Maximum 2 language add-ons allowed for this platform.
You may install 4 more language(s) from the following list:
Language Installation Menu:
# Selected SKU Language Name (version)
-----
1 PTB CUE Voicemail Brazilian Portuguese (8.0.1.0)
2 RUS CUE Voicemail Russian (8.0.1.0)
3 DEU CUE Voicemail German (8.0.1.0)
4 NLD CUE Voicemail Dutch (8.0.1.0)
5 FRC CUE Voicemail Canadian French (8.0.1.0)
6 KOR CUE Voicemail Korean (8.0.1.0)
7 CHS CUE Voicemail Mandarin Chinese (8.0.1.0)
8 ESO CUE Voicemail Latin American Spanish (8.0.1.0)
9 ITA CUE Voicemail Italian (8.0.1.0)
10 ESM CUE Voicemail Mexican Spanish (8.0.1.0)
11 ESP CUE Voicemail European Spanish (8.0.1.0)
12 TUR CUE Voicemail Turkish (8.0.1.0)
13 ENG CUE Voicemail UK English (8.0.1.0)
14 ARA CUE Voicemail Arabic (8.0.1.0)
15 SVE CUE Voicemail Swedish (8.0.1.0)
16 FRA CUE Voicemail European French (8.0.1.0)
17 DAN CUE Voicemail Danish (8.0.1.0)
18 JPN CUE Voicemail Japanese (8.0.1.0)
-----
Available commands are:
# - enter the number for the language to select one
r # - remove the language for given #
i # - more information about the language for given #
x - Done with language selection
Enter Command:3
Language Installation Menu:
# Selected SKU Language Name (version)
-----
1 PTB CUE Voicemail Brazilian Portuguese (8.0.1.0)
2 RUS CUE Voicemail Russian (8.0.1.0)
3 * DEU CUE Voicemail German (8.0.1.0)
4 NLD CUE Voicemail Dutch (8.0.1.0)
5 FRC CUE Voicemail Canadian French (8.0.1.0)
6 KOR CUE Voicemail Korean (8.0.1.0)
7 CHS CUE Voicemail Mandarin Chinese (8.0.1.0)
8 ESO CUE Voicemail Latin American Spanish (8.0.1.0)
9 ITA CUE Voicemail Italian (8.0.1.0)
10 ESM CUE Voicemail Mexican Spanish (8.0.1.0)
11 ESP CUE Voicemail European Spanish (8.0.1.0)
12 TUR CUE Voicemail Turkish (8.0.1.0)
13 ENG CUE Voicemail UK English (8.0.1.0)
14 ARA CUE Voicemail Arabic (8.0.1.0)
15 SVE CUE Voicemail Swedish (8.0.1.0)
16 FRA CUE Voicemail European French (8.0.1.0)
17 DAN CUE Voicemail Danish (8.0.1.0)
18 JPN CUE Voicemail Japanese (8.0.1.0)
-----

```

```

Available commands are:
# - enter the number for the language to select one
r # - remove the language for given #
i # - more information about the language for given #
x - Done with language selection
Enter Command:X ui_install scripts executed successfully.
Starting payload download

```

## Removing a Language

To remove languages, enter the **software uninstall** command in EXEC mode as shown in the following example.

```

se-10-50-40-125> software uninstall ?
<cr>
  uid-list      List of UIDs of Subsystems to be uninstalled
se-10-50-40-125> software uninstall

Add-On Uninstallation Menu:
# Selected Add-On SSID Add-On Name (version)
-----
1 3f968fd0-6598-48e2-be1c-4af6c2e02e02 CUE Voicemail German (8.0.1.0)
2 27e5e2ab-1622-4c02-8a0a-cfad0d932148 CUE Voicemail US English (8.0.1.0)
-----

Available commands are:
r # - remove Add On for given #
i # - more information about Add On for given #
c # - clear Add On selection for given #
x - Done with Add On selection
Enter Command:r 1

Add-On Uninstallation Menu:
# Selected Add-On SSID Add-On Name (version)
-----
1 * 3f968fd0-6598-48e2-be1c-4af6c2e02e02 CUE Voicemail German (8.0.1.0)
2 27e5e2ab-1622-4c02-8a0a-cfad0d932148 CUE Voicemail US English (8.0.1.0)
-----

Available commands are:
r # - remove Add On for given #
i # - more information about Add On for given #
c # - clear Add On selection for given #
x - Done with Add On selection
Enter Command:x
Are you sure? [y/n]: y
There are add-on subsystems on uninstall list.
Running Script Processor for ui_uninstall
ui_uninstall scripts executed successfully.
Generating the add-on-uninstall work order :
Validating installed manifests .....
.complete.
:::/sw/installed/manifest/de_DE_lang_manifest.sig:remove
:::/usr/wfavvid/Prompts/system/de_DE:remove
:::/usr/wfavvid/Prompts/user/de_DE:remove
:::/usr/wfavvid/Grammars/system/de:remove
:::/usr/wfavvid/Grammars/system/de_DE:remove
:::/usr/wfavvid/i18n/com/cisco/prompt/impl/PromptGenerators_de_DE.properties:remove
:::/usr/wfavvid/i18n/com/cisco/grammar/impl/DigitRecognitionStrings_de_DE.
properties:remove
:::/usr/tomcat/webapps/voicemail/prompts/DEU:remove
Starting to uninstall:

```

## What to Do Next

After configuring connectivity to the Cisco Unity Express module or changing languages, run the initialization wizard to begin configuring the Cisco Unity Express database.

**Note**

---

To use CLI commands to perform the configuration tasks covered by the initialization wizard (for example, to use a configuration script), you can skip the initialization wizard by using the **web skipinitwizard** command in Cisco Unity Express EXEC mode. This command turns off the initialization wizard. You cannot turn it on or restart it unless you reimage the Cisco Unity Express module.

---



# Installing Cisco Unity Express 8.0 Software on Services Ready Engine (SRE) Modules

---

Last Updated: June 2, 2010

This chapter describes the procedure for installing Cisco Unity Express software on the Services Ready Engine modules and contains the following information and procedures:

- [Overview, page 25](#)
- [Task List, page 26](#)
- [Activating IP Connectivity to Cisco Unity Express Module, page 26](#)
- [Installing the Cisco Unity Express Application on the SRE Module, page 28](#)
- [Monitoring the Installation Status, page 30](#)
- [Uninstalling the Cisco Unity Express Application from the SRE Module, page 31](#)
- [What to Do Next, page 32](#)

## Overview

Cisco Unity Express 8.0 is supported on the following Services Ready Engine (SRE) modules:

- ISM-SRE-300-K9
- SM-SRE-700-K9

In most cases, Cisco Unity Express is pre-installed on the SRE modules when shipped from the factory. This chapter describes how to install Cisco Unity Express on these modules in case the application needs to be re-installed.

For more information about the Cisco SRE Service Modules, see the [Cisco SRE Service Module Configuration and Installation Guide](#).

After ensuring that the prerequisites described in the [“Prerequisites for Installing Cisco Unity Express Software”](#) section on [page 9](#) are completed, the Cisco Unity Express software is ready to be installed.

# Task List



## Note

When you order Cisco Unity Express, Cisco Unity Express software and the purchased license are installed on the module at the factory. Spare modules also ship with the software and license installed.

The following procedures are required to configure a new installation of Cisco Unity Express:

**Table 6** Task List for Performing a New Installation of Cisco Unity Express

Checklist	Checkoff
1. Configure the IP addressing between the Services Ready Engine module and the router. See the <a href="#">“Activating IP Connectivity to Cisco Unity Express Module”</a> section on page 26.	<input type="checkbox"/>
2. Install Cisco Unity Express software on the Services Ready Engine module. See <a href="#">“Installing the Cisco Unity Express Application on the SRE Module”</a> section on page 28.	<input type="checkbox"/>
3. Create the Cisco Unity Express administrator username and password and specify the IP addresses for the DNS server and NTP server. This username and password is needed to log in to the initialization wizard. See the <a href="#">Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions</a> and the GUI online help.	<input type="checkbox"/>
4. Begin configuring the Cisco Unity Express software. See the <a href="#">Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions</a> and the GUI online help for the configuration tasks.	<input type="checkbox"/>
<p><b>Note</b> If you want to use CLI commands to perform the configuration tasks covered by the initialization wizard (for example, if you want to use a configuration script), you can skip the initialization wizard by using the <b>web skipinitwizard</b> command in Cisco Unity Express EXEC mode. This command turns off the initialization wizard. You cannot turn it on or restart it unless you reimage the Cisco Unity Express module.</p>	

## Activating IP Connectivity to Cisco Unity Express Module

Before installing the software, activate the IP communication link between the system and the Cisco Unity Express module.

### Prerequisites

The following information is required for activating the link to the Cisco Unity Express module:

- Slot and unit numbers of the Cisco Unity Express module on the Cisco IOS router that hosts Cisco Unity Express.
- IP address and subnet mask of the Cisco IOS router that hosts Cisco Unity Express or the unnumbered interface type and number.
- IP address of the Cisco Unity Express module. This IP address must be on the same subnet as the Cisco IOS router that hosts Cisco Unity Express.

- IP address of the default gateway of the Cisco Unity Express router. This IP address must be the same IP address as the Cisco IOS router that hosts Cisco Unity Express.

## SUMMARY STEPS

1. **interface ism** *slot/unit*  
or  
**interface sm** *slot/0*
2. **ip address** *router-ip-addr subnet-mask*  
or  
**ip unnumbered** *type number*
3. **service-module ip address** *cue-side-ip-addr subnet-mask*
4. **service-module ip default-gateway** *gw-ip-addr*
5. **exit**

## DETAILED STEPS

	Command or Action	Purpose
Step 1	Choose one of the following: <b>interface ism</b> <i>slot/unit</i>  or <b>interface sm</b> <i>slot/0</i>  <b>Example:</b> Router(config)# interface ism 0/1	Enters interface configuration mode on the Integrated Service Module (ISM) SRE module.  Enters interface configuration mode on the Service Module (SM) SRE module.
Step 2	Choose one of the following: <b>ip address</b> <i>router-ipaddr subnet-mask</i>  <b>Example:</b> Router(config-if)# ip address 172.16.231.195 255.255.0.0  or Router(config-if)# <b>ip unnumbered</b> <i>type number</i>  <b>Example:</b> Router(config-if)# ip unnumbered FastEthernet 0/0	Specifies the IP address and subnet mask of the Cisco IOS router hosting Cisco Unity Express.  Specifies the interface <i>type</i> and <i>number</i> for the Cisco IOS router hosting Cisco Unity Express.
Step 3	<b>service-module ip address</b> <i>cue-side-ipaddr subnet-mask</i>  <b>Example:</b> Router(config-if)# service-module ip address 172.16.231.190 255.255.0.0	Specifies the IP address of the Cisco Unity Express module interface. This IP address must be on the same subnet as the Cisco IOS router that hosts Cisco Unity Express.

	Command or Action	Purpose
Step 4	<b>service-module ip default-gateway</b> <i>gw-ipaddr</i>  <b>Example:</b> Router(config-if)# <b>service-module ip default-gateway</b> 172.16.231.195	Specifies the IP address of the Cisco IOS router that hosts Cisco Unity Express.
Step 5	<b>exit</b>  <b>Example:</b> Router(config-if)# <b>exit</b>	Exits interface configuration mode.

## Examples

The following example illustrates the IP connectivity activation procedure:

```
Router(config)# interface sm 1/0
Router(config-if)# ip address 10.0.0.9 255.0.0.0
Router(config-if)# service-module ip address 10.0.0.10 255.0.0.0
Router(config-if)# service-module ip default-gateway 10.0.100.10
Router(config-if)# exit
```

# Installing the Cisco Unity Express Application on the SRE Module

Use this procedure to install Cisco Unity Express on the SRE module.

## SUMMARY STEPS

1. **service-module ism** *slot/unit* **install url** *url* [**script** *script-name*]  
 [**argument** *argument*] [**force**]  
 or  
**service-module sm** *slot/0* **install url** *url* [**script** *script-name*]  
 [**argument** *argument*] [**force**]

## DETAILED STEPS

Command or Action	Purpose
<p><b>Step 1</b></p> <pre><b>service-module ism slot/unit install url url [script script-name] [argument argument] [force]</b></pre> <p>or</p> <pre><b>service-module sm slot/0 install url url [script script-name] [argument argument] [force]</b></pre> <p><b>Example:</b></p> <pre>Router(config)# service-module ism 0/0 install url ftp://username:password@128.107.146.189/dir/cue-vm- k9.sme.7.1.2.pkg script cue-vm-k9.sme.7.1.2.sre</pre>	<p>Starts the process of installing application software on the SRE.</p> <p>You can use the <b>argument</b> option to specify which languages to install. If you select the <b>force</b> option with the <b>argument</b> option, then the installation will proceed without prompting you.</p> <p>If you do not specify the optional <b>argument</b> and <b>force</b> keywords, then you will be prompted to select the language(s) to install.</p>

Once you enter the **service-module ism install** or **service-module sm install** command, the system will install the application.

The following is an example of the installation process display:

```
c2911#service-module ism 0/0 install url
ftp://username:password@10.50.10.25/dir/cue-vm-k9.sme.8.0.1.pkg
Proceed with installation? [no]: yes
Loading 8.0.1/cue-vm-k9.sme.8.0.1.pkg.install.sre !
[OK - 22272/4096 bytes]
```

Following languages are available for installation.

#	SKU	Language Code	Language Name
1	ITA	it_IT	CUE Voicemail Italian
2	ESP	es_ES	CUE Voicemail European Spanish
3	ENU	en_US	CUE Voicemail US English
4	FRA	fr_FR	CUE Voicemail European French
5	ESO	es_CO	CUE Voicemail Latin American Spanish
6	ESM	es_MX	CUE Voicemail Mexican Spanish
7	ARA	ar_SA	CUE Voicemail Arabic
8	NLD	nl_NL	CUE Voicemail Dutch
9	SVE	sv_SE	CUE Voicemail Swedish
10	NOR	no_NO	CUE Voicemail Norwegian
11	FRC	fr_CA	CUE Voicemail Canadian French
12	PTG	pt_PT	CUE Voicemail Portuguese
13	TUR	tr_TR	CUE Voicemail Turkish
14	HUN	hu_HU	CUE Voicemail Hungarian
15	ENG	en_GB	CUE Voicemail UK English
16	DEU	de_DE	CUE Voicemail German
17	DAN	da_DK	CUE Voicemail Danish
18	PTB	pt_BR	CUE Voicemail Brazilian Portuguese
19	KOR	ko_KR	CUE Voicemail Korean
20	CHS	zh_CN	CUE Voicemail Mandarin Chinese
21	JPN	ja_JP	CUE Voicemail Japanese
22	RUS	ru_RU	CUE Voicemail Russian

You can install up to 5 language(s) on this platform.

```
Please select the language(s) you want to install by entering the language number(s)
Languages can be entered as comma separated or space separated list
Example: 1,3 would select 'Italian' and 'US English'
```

```
Enter languages:3
Following languages will be installed on the system:
CUE Voicemail US English
Do you want to continue with the selected options?(y/n):y input string: lang=no=1,CUE
Voicemail US English
```

```
c2911#
[Resuming connection 2 to 10.50.70.1 ... ]
```

```
Initializing memory. Please wait...
Memory initialization OK. Continue...
```

```
DDR Memory 0512 MB detected
Genuine Intel(R) processor          1.06GHz
BIOS SM 2.5, BIOS Build date: 06/30/2009 System now booting...
```

```
Now booting from primary boot loader....
```

Please enter '\*\*\*\*' to change boot configuration:  
The system begins the installation process. Once the system installation is complete, you will receive the following display:

```
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)?
```

Press Y to begin the configuration process.

## Monitoring the Installation Status

During the installation process, you can monitor the status of the Cisco Unity Express application installation.

### SUMMARY STEPS

1. **service-module ism *slot/unit* status**  
or  
**service-module sm *slot/0* status**

## DETAILED STEPS

	Command or Action	Purpose
Step 1	<pre>service-module ism slot/unit status</pre> <p>or</p> <pre>service-module sm slot/0 status</pre> <p><b>Example:</b> Router(config)# service-module ism 2/0 status</p>	Monitors the status of the integrated Service Engine.

If you enter the **service-module ism slot/unit status** command while the installation is in progress, the output displayed will be similar to the following:

```
c2911#service-module ism 0/0 status
Service Module is Cisco ISM0/0
Service Module supports session via TTY line 131
Service Module is in Steady state
Service Module heartbeat-reset is enabled
Getting status from the Service Module, please wait..
Cisco Unity Express 8.0.1
CUE Running on ISM
No install/uninstall in progress
```

## Uninstalling the Cisco Unity Express Application from the SRE Module

To uninstall the Cisco Unity Express application from the SRE module, perform the following steps. This process will clear the contents of the disk/compact flash, but will leave the licenses on the module.

## SUMMARY STEPS

1. **service-module ism slot/unit uninstall**  
or  
**service-module sm slot/0 uninstall**

## DETAILED STEPS

	Command or Action	Purpose
Step 1	<pre>service-module ism slot/unit uninstall</pre> <p>or</p> <pre>service-module sm slot/0 uninstall</pre> <p><b>Example:</b> Router(config)# service-module ism 2/0 uninstall</p>	Uninstalls the Cisco Unity Express application from the module. The disk/compact flash contents will be cleared, but the licenses are left on the module.

## What to Do Next

After configuring connectivity to the Cisco Unity Express module or changing languages, run the initialization wizard to begin configuring the Cisco Unity Express database. See the GUI online help for more information.



---

**Note**

To use CLI commands to perform the configuration tasks covered by the initialization wizard (for example, to use a configuration script), you can skip the initialization wizard by using the **web skipinitwizard** command in Cisco Unity Express EXEC mode. This command turns off the initialization wizard. You cannot turn it on or restart it unless you reimage the Cisco Unity Express module.

---



# Upgrading to Cisco Unity Express 8.0

---

Last Updated: February 17, 2011

This chapter describes procedures for upgrading to Cisco Unity Express 8.0 software. This chapter includes:

- [Preparing for Your Upgrade, page 33](#)
- [Introduction to Upgrade Procedures, page 34](#)
- [Prerequisites, page 34](#)
- [Upgrading to Cisco Unity Express 8.0 for New Installations, page 35](#)
- [Upgrading to Cisco Unity Express 8.0 for Existing Installations, page 41](#)
- [What to Do Next, page 47](#)

## Preparing for Your Upgrade

Before upgrading, you need to determine whether the version of Cisco Unity Express you are upgrading to supports the following:

- Your current Cisco Unity Express hardware module
- The call control application version(s) you are currently using:
  - Cisco Unified Communications Manager Express (CUCME), or
  - Cisco Unified Communications Manager (CUCM) and Cisco Unified Survivable Remote Site Telephony (SRST)

If Cisco Unity Express 8.0 does not support your current configuration, you will need to either migrate to a new Cisco Unity Express hardware module or upgrade your call control version, or both. For more information, see the [Cisco Unity Express Guide to Hardware Migration and Software Upgrades](#) or the [Cisco Unity Express Compatibility Matrix](#).

# Introduction to Upgrade Procedures

This section describes important information you need to know before beginning your upgrade.



## Caution

For Cisco Unity Express 8.0, licenses are based on the CSL licensing system. CSL licensing is explained further in this guide and in [Software Activation of Cisco Unity Express 7.1](#).

Use one of the following two upgrade procedures depending on:

- whether or not you want to back up your configuration before the procedure and restore it afterward:
- what your platform is.

### Upgrading to Cisco Unity Express 8.0 by Performing a Clean Install

This is a *clean* installation that “cleans” the disk by erasing any existing configuration and voice-mail data, repartitioning the disk, and loading all new files on the disk. You must back up your configuration and data files before starting the clean installation, and then restore the configuration and data files after the installation.

This procedure uses the **software install clean** command. For more information, see the “[Upgrading to Cisco Unity Express 8.0 for New Installations](#)” section on page 35.

This process is available for upgrades from Cisco Unity Express version 3.0.x and onward.

### Upgrading Cisco Unity Express by Performing a Software Upgrade

This procedure does not erase any existing configuration or data. You do not need to back up your current configuration and data files because the disk is not cleaned. Your current installation is upgraded.

This procedure uses the **software install upgrade** command. For more information, see the “[Upgrading to Cisco Unity Express 8.0 for Existing Installations](#)” section on page 41.

This process is available for upgrades from Cisco Unity Express version 3.0.x and onward. It is not supported for upgrading the Cisco 1861 from Cisco Unity Express version 2.3.4.2.



## Note

These procedures are available to systems with an NME-CUE or AIM2-CUE. Cisco Unity Express 8.0 does not support the AIM-CUE.

## Prerequisites

- The following information is required:
  - FTP server IP address
  - FTP server username
  - FTP server password
  - Software package name
- If you are installing a language, see the [Cisco Unity Express Compatibility Matrix](#) for a list of available languages.
- Ensure that the FTP server is configured and active.

- Ensure that you can ping the Cisco Unity Express network module from the FTP server.
- If Cisco Unity Express is configured to use DNS, use hostnames to identify the FTP server. If Cisco Unity Express is not configured to use DNS, use the IP address of the FTP server.

## Upgrading to Cisco Unity Express 8.0 for New Installations

This section describes the “clean” procedure for upgrading to Cisco Unity Express 8.0. Because this procedure erases any existing configuration and voice-mail data, you must first backup your data, and then restore it following the software installation.



### Note

You also have the option of upgrading without backing up the system data and then restoring it after the software installation. For more information, see the “[Upgrading to Cisco Unity Express 8.0 for Existing Installations](#)” section on page 41.



### Note

If you are upgrading to Cisco Unity Express 8.0 from either version 7.0, or 7.1, depending on the maintenance release version you are upgrading from, the upgrade may fail and you may receive the following error message: “ Error: Required Subsystem ID e2497725-368d-48b5-a7d5-7f87d889a608 was not found either on Installed or Candidate list.” For more information, see the description for CSCtd56585 in the [Release Notes for Cisco Unity Express 8.0](#).

## Task List

Upgrading to Cisco Unity Express 8.0. entails the following sequence of tasks:

**Table 7** Task List for Upgrading to Cisco Unity Express 8.0 Using Clean Install Method

Checklist	Checkoff
1. Back up your data and configuration files. See “ <a href="#">Appendix A: Backing Up Files</a> ” on page 63.	<input type="checkbox"/>
2. Download and install the new CSL license file(s) as described in <a href="#">Software Activation of Cisco Unity Express 7.1 and Later Versions</a> .	<input type="checkbox"/>
3. Download and install the software image files. See “ <a href="#">Downloading and Installing a New Software Image</a> ” on page 35.	<input type="checkbox"/>
4. Restore the data and configuration files. See “ <a href="#">Appendix B: Restoring Files</a> ” on page 65.	<input type="checkbox"/>
5. Reboot the system.	<input type="checkbox"/>

## Downloading and Installing a New Software Image

Use this procedure to install a new Cisco Unity Express software image.

**Caution**

If you have not already done so, back up your data and configuration files before starting the installation. See “[Appendix A: Backing Up Files](#)” on page 63. The disk is wiped clean before the new image is installed.

**SUMMARY STEPS**

1. Log in and go to the Cisco Unity Express product website at:  
<http://www.cisco.com/en/US/products/sw/voicesw/ps5520/index.html>
2. Click the Download Software link.
3. Download the Cisco Unity Express software files, one zip file and one language package file for each language.
4. Extract the five core files from the zip file.
5. Copy the extracted files and the language package file(s) to the FTP server.
6. (Optional) Enter the **software download clean** command to download the new software from the FTP server.

**Note**

Although the **software download clean** command is optional, it is useful for staging the installation. The command stores the software files on the hard disk, which can save time during any subsequent installation or upgrade.

7. (Required for Step 4.) Enter **y** to continue the installation.
8. Select the language version from the language selection menu.
9. Enter **x** when you finish with the language selection menu.
10. Enter the **software download status** command to check that the software has downloaded.
11. Enter the **software install clean** command to install the new software.  
The system automatically reloads after the installation is complete.
12. Enter **y** to begin the initial configuration.
13. Enter **y** to restore the configuration saved in flash memory or **n** to use your backup to restore your configuration.
14. Enter the Cisco Unity Express administrator ID. This is the username to log in to the Cisco Unity Express GUI.

**DETAILED STEPS**

- Step 1** Log in and go to the Cisco Unity Express product website at:  
<http://www.cisco.com/en/US/products/sw/voicesw/ps5520/index.html>
- Step 2** Click on the Download Software link.
- Step 3** Download the appropriate Cisco Unity Express software files.
  - **cue-vm-k9.plat.ver.zip** (application package file)
  - **cue-vm-lang-langpack.plat.ver.prt1** (language package file)

The key to the placeholders in the above-mentioned filenames is in [Table 5 on page 21](#).

**Step 4** From the zip file, extract the core files:

**For AIM2-CUE and NME-CUE:**

- cue-installer.nmx.8.0.x
- cue-vm-k9.nmx.8.0.x.pkg
- cue-vm-full-k9.nmx.8.0.x.prt1
- cue-vm-installer-k9.nmx.8.0.x.prt1
- cue-vm-langpack.nmx.8.0.x.prt1

**For ISM-SRE-300-K9 and SM-SRE-700-K9 modules:**

- cue-installer.sme.8.0.x
- cue-vm-k9.sme.8.0.x.pkg
- cue-vm-full-k9.sme.8.0.x.prt1
- cue-vm-installer-k9.sme.8.0.x.prt1
- cue-vm-langpack.sme.8.0.x.prt1

**For ISE-CUE modules pre-installed on the Cisco 1861:**

- cue-installer.ise.8.0.x
- cue-vm-k9.ise.8.0.x.pkg
- cue-vm-full-k9.ise.8.0.x.prt1
- cue-vm-installer-k9.ise.8.0.x.prt1
- cue-vm-langpack.ise.8.0.x.prt1

**Step 5** Copy the core files and the language package file for your hardware module to the FTP server.

**Step 6** (Optional) Enter the **software download clean** command to download the new software from the FTP server:

```
se-172-16-0-0# software download clean url ftp://ftp_server_ip_address/cue-vm-k9.nmx.pkg
username username password password
```

or, if the FTP server has been configured:

```
se-172-16-0-0# software download clean cue-vm-k9.nmx.pkg
```



**Note** If the FTP server was set in configuration mode, you do not need to use the FTP parameters. To set the FTP server, see the **software download server** command in the [Cisco Unity Express Command Reference for 3.0 and Later Versions](#).

**Step 7** (Required for Step 4.) Enter **y** to continue the download:

```
WARNING:: This command will download 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? [n] y
```

**Step 8** Select the language version from the language selection menu:

**Note**

Select the language that was previously configured as the system default on the system running the earlier version. To change the language support as part of the upgrade, additional preparation is required. For example, users, audio prompts, triggers and some custom scripts might be defined with a language other than the system default. If these are not updated correctly, then audio prompts for users defined with other languages might not work. For more information, see [“Appendix C: Language Upgrade Preparation” section on page 67.](#)

```
# Selected  SKU      Language Name (version)
-----
1 PTB CUE Voicemail Brazilian Portuguese (8.0.1.0)
2 RUS CUE Voicemail Russian (8.0.1.0)
3 DEU CUE Voicemail German (8.0.1.0)
4 NLD CUE Voicemail Dutch (8.0.1.0)
5 FRC CUE Voicemail Canadian French (8.0.1.0)
6 KOR CUE Voicemail Korean (8.0.1.0)
7 CHS CUE Voicemail Mandarin Chinese (8.0.1.0)
8 ESO CUE Voicemail Latin American Spanish (8.0.1.0)
9 ITA CUE Voicemail Italian (8.0.1.0)
10 ESM CUE Voicemail Mexican Spanish (8.0.1.0)
11 ESP CUE Voicemail European Spanish (8.0.1.0)
12 TUR CUE Voicemail Turkish (8.0.1.0)
13 ENG CUE Voicemail UK English (8.0.1.0)
14 ARA CUE Voicemail Arabic (8.0.1.0)
15 SVE CUE Voicemail Swedish (8.0.1.0)
16 FRA CUE Voicemail European French (8.0.1.0)
17 DAN CUE Voicemail Danish (8.0.1.0)
18 JPN CUE Voicemail Japanese (8.0.1.0)
-----
```

```

Available commands are:
# - enter the number for the language to select one
r # - remove the language for given #
i # - more information about the language for given #
x - Done with language selection

```

```
>12
```

**Step 9** Your choice appears as an "\*" in the language selection menu. Use the menu to add, remove, or get information about languages. Enter x when finished. The example below shows that Italian and Danish are selected.

```

# Selected   SKU           Language Name (version)
-----
1 PTB CUE Voicemail Brazilian Portuguese (8.0.1.0)
2 RUS CUE Voicemail Russian (8.0.1.0)
3 DEU CUE Voicemail German (8.0.1.0)
4 NLD CUE Voicemail Dutch (8.0.1.0)
5 FRC CUE Voicemail Canadian French (8.0.1.0)
6 KOR CUE Voicemail Korean (8.0.1.0)
7 CHS CUE Voicemail Mandarin Chinese (8.0.1.0)
8 ESO CUE Voicemail Latin American Spanish (8.0.1.0)
9 * ITA CUE Voicemail Italian (8.0.1.0)
10 ESM CUE Voicemail Mexican Spanish (8.0.1.0)
11 ESP CUE Voicemail European Spanish (8.0.1.0)
12 TUR CUE Voicemail Turkish (8.0.1.0)
13 ENG CUE Voicemail UK English (8.0.1.0)
14 ARA CUE Voicemail Arabic (8.0.1.0)
15 SVE CUE Voicemail Swedish (8.0.1.0)
16 FRA CUE Voicemail European French (8.0.1.0)
17 * DAN CUE Voicemail Danish (8.0.1.0)
18 JPN CUE Voicemail Japanese (8.0.1.0)
-----

```

```

Available commands are:
# - enter the number for the language to select one
r # - remove the language for given #
i # - more information about the language for given #
x - Done with language selection

```

```
>x
```

At this point the new software is downloaded from the FTP server.



**Note** When you download the software, there are no other prompts for user input. The software package is downloaded from the FTP server to the Cisco Unity Express module.

**Step 10** Enter the **software download status** command to check the download status:

```

se-172-16-0-0# software download status
Download request in progress.
downloading file : cue-vm-k9.nmx.pkg
bytes downloaded : 18612224
se-172-16-0-0#

```

```

se-172-16-0-0# software download status
Download request completed successfully.
se-172-16-0-0#

```

**Note**


---

You can enter the **show software directory download** command to show the downloaded files.

---

**Step 11** After the software is downloaded, enter the **software install clean** command to install the new software:

**Caution**


---

This step cleans the disk. All configuration and voice messages are lost after this step. Verify that a backup was done. If it has not, abort at this step and do a backup first. See [“Appendix A: Backing Up Files”](#) section on page 63.

---

```
se-172-16-0-0# software install clean cue-vm-k9.nmx.8.0.1.pkg
```

**Note**


---

If the package is not found in the download section, it is downloaded from the configured FTP server.

---

**Note**


---

To set the FTP server, see the **software download server** command in the *Cisco Unity Express Command Reference for 3.0 and Later Versions*.

---

At this point, the new software is installed on the system and the system restarts.

**Step 12** Enter **y** to begin the initial configuration:

```
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)? y
```

**Note**


---

If no response is given to the prompt above, then after two minutes Cisco Unity Express will automatically configure the system with the default values for the NTP server, the time zone, and the call agent mode.

---

**Step 13** Enter the appropriate response **y** or **n**. See the output below to determine your configuration needs.

**Note**


---

If this is a new installation or the flash has been erased, this output is not displayed.

---

```
IMPORTANT::
IMPORTANT:: A Cisco Unity Express configuration has been found in flash.
IMPORTANT:: You can choose to restore this configuration into the
IMPORTANT:: current image.
IMPORTANT::
IMPORTANT:: A stored configuration contains some of the data from a
IMPORTANT:: previous installation, but not as much as a backup. For
IMPORTANT:: example: voice messages, user passwords, user PINs, and
IMPORTANT:: auto attendant scripts are included in a backup, but are
```

```

IMPORTANT:: not saved with the configuration.
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 are going to restore a backup from a previous
IMPORTANT:: installation, you should not 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)

```

**Caution**

If you answer **n**, the configuration is deleted and you are asked to configure the hostname, DNS location, NTP server, and timezone.

- Step 14** Enter the Cisco Unity Express administrator ID. This is the username to log in to the Cisco Unity Express GUI.

```

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

Enter administrator user ID:
  (user ID): Admin
Enter password for admin:
  (password): *****
Confirm password for admin by reentering it:
  (password): *****

SYSTEM ONLINE
se-172-16-0-0>

```

## Upgrading to Cisco Unity Express 8.0 for Existing Installations

This section describes the procedure to upgrade files by simply adding them to your existing Cisco Unity Express installation. Using this procedure, you upgrade your software version without having to backup your system data before the software installation and restore it afterward. Whether you can use this type of upgrade depends on the version you are upgrading from. To see which version combinations this method supports, see the [Release Notes for Cisco Unity Express 8.0](#).

**Note**

Upgrading to Cisco Unity Express 8.0 from selected Cisco Unity Express 7.0.x and 7.1.x releases may require additional tasks to be performed. See the description for CSCtd56585 in the [Release Notes for Cisco Unity Express 7.0](#) and the [Release Notes for Cisco Unity Express 7.1](#).

## Task List

Upgrading Cisco Unity Express using this method entails the following tasks for downloading and installing an upgrade image.

**Table 8** Task List for Upgrading Cisco Unity Express Using Software Install Upgrade Method

Checklist	Checkoff
1. (Recommended) Back up your data and configuration files. See “ <a href="#">Appendix A: Backing Up Files</a> ” section on page 63.	<input type="checkbox"/>
2. Download and install the new CSL license file(s) as described in <i>Software Activation of Cisco Unity Express 7.1 and Later Versions</i> .	<input type="checkbox"/>
3. Download and install the software image files. See “ <a href="#">Downloading and Installing an Upgrade Image</a> ” on page 42.	<input type="checkbox"/>
4. Restore the data and configuration files, if required. See “ <a href="#">Appendix B: Restoring Files</a> ” on page 65.	<input type="checkbox"/>
5. Reboot the system.	<input type="checkbox"/>

Use this procedure to download and install an upgrade image.



**Note**

We recommend that you back up your data and configuration files before starting the upgrade. See “[Appendix A: Backing Up Files](#)” on page 63.



**Note**

To change your language selections, see the “[Adding or Removing Languages](#)” section on page 20.

## Downloading and Installing an Upgrade Image

### SUMMARY STEPS

1. Log in and go to the Cisco Unity Express product website at: <http://www.cisco.com/en/US/products/sw/voicesw/ps5520/index.html>
2. Click on the Download Software link.
3. Download the appropriate Cisco Unity Express software files.
4. Extract the core files from the zip file.
5. Copy the files to the FTP server.
6. (Optional) Enter the **software download upgrade** command to download the new software.



**Note**

Although the **software download upgrade** command is optional, it is useful for staging the installation. The command stores the software files on the hard disk, which can save time during any subsequent installation or upgrade.

7. (Required for Step 4.) Enter **y** to continue the download.

8. (Optional) Enter the **software download status** command to verify the download.
9. Enter the **software install upgrade** command to install the new software.
10. Enter **y** to install the upgrade or **n** to stop the installation procedure.  
The system automatically reloads after the upgrade is complete.
11. Enter the **show software versions** command to verify the upgrade.

## DETAILED STEPS

**Step 1** Log in and go to the Cisco Unity Express product website at:  
<http://www.cisco.com/en/US/products/sw/voicew/ps5520/index.html>

**Step 2** Click on the Download Software link.

**Step 3** Download the appropriate Cisco Unity Express software files.

- **cue-vm-k9.plat.ver.zip** (application package file)
- **cue-vm-lang-langpack.plat.ver.prt1** (language package file)

The key to the placeholders in the above-mentioned filenames is in [Table 5 on page 21](#).

### For AIM2-CUE and NME-CUE:

- cue-installer.nmx.8.0.x
- cue-vm-k9.nmx.8.0.x.pkg
- cue-vm-full-k9.nmx.8.0.x.prt1
- cue-vm-installer-k9.nmx.8.0.x.prt1
- cue-vm-langpack.nmx.8.0.x.prt1

### For ISM-SRE-300-K9 and SM-SRE-700-K9modules:

- cue-installer.sme.8.0.x
- cue-vm-k9.sme.8.0.x.pkg
- cue-vm-full-k9.sme.8.0.x.prt1
- cue-vm-installer-k9.sme.8.0.x.prt1
- cue-vm-langpack.sme.8.0.x.prt1

### For ISE-CUE modules pre-installed on the Cisco 1861:

- cue-installer.ise.8.0.x
- cue-vm-k9.ise.8.0.x.pkg
- cue-vm-full-k9.ise.8.0.x.prt1
- cue-vm-installer-k9.ise.8.0.x.prt1
- cue-vm-langpack.ise.8.0.x.prt1

**Step 4** Copy the core files and the language package file to the FTP server.



#### Note

To install the files without first downloading, use the command **software install upgrade url ftp://ftp-server-ip-address/cue-vm-k9.plat.ver.8.0.x.pkg username username password password**.

- Step 5** (Optional) Enter the **software download upgrade** command to download the software from the FTP server:

```
se-172-16-0-0# software download upgrade url ftp://ftp-server-ip-address/cue-vm-k9.nmx.pkg
```



**Note** This example uses the default anonymous FTP user.

or, if the FTP server is configured:

```
se-172-16-0-0# software download upgrade cue-vm-k9.nmx.pkg
```



**Note** If the FTP server was set in configuration mode, you do not need to use the FTP parameters.

- Step 6** (Required for Step 4.) Enter **y** to begin the download:

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

```
Would you like to continue? [n] y
Downloading software install upgrade cue-vm-k9.nmx.8.0.1.pkg
Bytes downloaded : 63648
```

```
Validating package signature ... done
Validating installed manifests .....complete.
```



**Note** When you download the upgrade software, there are no other prompts for user input. The software package is downloaded from the FTP server to the Cisco Unity Express network module.

- Step 7** Enter the **software download status** command to check the download status:

```
se-172-16-0-0# software download status
Download request in progress.
downloading file : cue-vm-k9.nmx.8.0.1.pkg bytes downloaded : 18612224
se-172-16-0-0#
```

```
se-172-16-0-0# software download status
Download request completed successfully.
se-172-16-0-0#
```



**Note** Enter the **show software directory download** command to show the downloaded files.

- Step 8** When the download is complete, enter the **software install upgrade** command to install the new software:



**Note** This example uses the default anonymous FTP user.

```
se-172-16-0-0# software install upgrade cue-vm-k9.nmx.8.0.1.pkg
```

In this example, the command upgrades the software using the package just downloaded. If the package is not found in the downloaded directory, it is downloaded from the configured FTP server.

**Note**


---

To install the package without first downloading, use the command `software install upgrade url ftp://ftp_server_ip_address/software install upgrade cue-vm-k9.nmx.pkg`.

---

**Step 9** Enter `y` to begin the upgrade:

**Caution**


---

An upgrade does not replace everything on the disk, just the files necessary to make the upgrade. We recommend that you do a backup before any software installation.

---

**Note**


---

When upgrading the Cisco Unity Express software, you are not prompted for a language. The language will stay as configured.

---

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

```
Would you like to continue? [n] y
```

The system reloads after the upgrade is complete.

**Step 10** Use the `show software version` command to verify the upgrade.

```
se-172-16-0-0# show software version
Cisco Unity Express version (8.0.1)

Components:

- CUE Voicemail Language Support version 8.0.1.0

se-172-16-0-0#
```

To see all the details, use the `show software version detail` command.

```
se-172-16-0-0# sh soft ver detail
Cisco Unity Express version (8.0.1)

Applications:

Name: Installer (8.0.1)
Desc: Installer application
   id: a0fb9f0a-fa5c-4b21-a64c-0cb9d6379573
Type: (installer)

Name: Thirdparty (8.0.1.0)
Desc: Service Engine Thirdparty Code
   id: a3442277-7890-4782-9e6b-9d19efc1e0d8
Type: (application)

Name: Bootloader (Primary) (2.1.14)
Desc: Service Engine Bootloader
   id: 13b08c00-19f7-4b81-97c7-f1d7fb7a8fd5
Type: (bootloader)

Name: Infrastructure (8.0.1.0)
Desc: Service Engine Infrastructure
   id: a36elbe1-ce8a-4f53-ace7-1844262aa0b9
Type: (application)
```

```

Name: Global (8.0.1)
Desc: Global manifest
     id: edceaf0b-a890-4045-9086-5452fac85eba
Type: (application)

Name: Service Engine license (2.1.2.0)
Desc: License for the Service Engine
     id: dlba3d34-06c2-4461-8600-a0c244ef8457
Type: (license)

Name: Auto Attendant (8.0.1.0)
Desc: Service Engine Telephony Infrastructure
     id: e3db91b0-f47d-460c-ad22-65001a5d45a9
Type: (application)

Name: Voice Mail (8.0.1.0)
Desc: Voicemail application
     id: 8e7823e2-0e92-4470-8860-653246345f9d
Type: (application)

Name: Bootloader (Secondary) (2.1.15.14)
Desc: Service Engine Bootloader
     id: 9d7b26fb-21b2-416e-8b65-425c2f8da5d8
Type: (bootloader)

Name: Core (8.0.1.0)
Desc: Service Engine OS Core
     id: 430f25f9-0fed-48a4-b362-823937138501
Type: (application)

Name: GPL Infrastructure (8.0.1.0)
Desc: Service Engine GPL Infrastructure
     id: 9f112eb1-6f58-4dd4-8faa-8530467af3b9
Type: (application)

```

Components:

```

Name: CUE Voicemail Language Support (8.0.1.0)
Desc: Languages global pack
     id: e2e81cc6-39b5-47e1-9f83-b83c897fc50c
Type: (plug-in)

Name: CUE Voicemail US English (8.0.1.0)
Desc: English language pack
     id: 27e5e2ab-1622-4c02-8a0a-cfad0d932148
Type: (plug-in)

Name: CUE Voicemail UK English (8.0.1.0)
Desc: British English language pack
     id: fa803d25-9c89-4171-a14c-ec12d6ed6b8c
Type: (plug-in)

```

se-172-16-0-0#

## What to Do Next

1. If required, restore the data and configuration files. See [“Appendix B: Restoring Files” on page 65](#). This step is not required if you used the upgrade process in [“Upgrading to Cisco Unity Express 8.0 for Existing Installations” on page 41](#).

**Note**

---

If you do not have any backup files for your system and cannot do a restore of the data, run the initialization wizard. See the GUI online help.

---

**Note**

---

To use CLI commands to perform the configuration tasks covered by the initialization wizard (for example, if you want to use a configuration script), skip the initialization wizard by using the **web skipinitwizard** command in Cisco Unity Express EXEC mode. This command turns off the initialization wizard. You cannot restart it unless you reimage the Cisco Unity Express module.

---

2. Configure new system features. See the [Cisco Unity Express VoiceMail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions](#), and the [Cisco Unity Express 8.0 Interactive Voice Response CLI Administrator Guide](#).





# Reinstalling a Cisco Unity Express Image Using the Boothelper

---

**Last Updated: December 10, 2010**

This chapter describes the procedures for installing Cisco Unity Express software using the boothelper.



**Note**

Use the boothelper method for emergency situations when your system is not responding as required or for a new installation. The helper supports only installations of licenses and full images. Boothelper mode does not support upgrades or language-only installations.

---

This is a *clean* installation. It cleans the disk by erasing any existing configuration and voice-mail data before loading the new files on the disk. You must back up your configuration and data files before starting the clean installation, then restore the configuration and data files after the installation takes place. Both FTP and TFTP servers are required.



**Note**

Do not use the boothelper unless you were unsuccessful using the clean install procedure described in [“Upgrading to Cisco Unity Express 8.0 for New Installations” on page 35](#).

---

This chapter contains the following sections:

- [Prerequisites, page 49](#)
- [Task List, page 50](#)
- [Downloading the Software Files, page 50](#)
- [Entering Configuration Parameter Values, page 52](#)
- [Installing Software Image Files, page 53](#)

## Prerequisites

- Ensure that the TFTP and FTP servers are configured and active.
- Ensure that you can ping the Cisco Unity Express module from the TFTP and FTP servers.
- See the [Cisco Unity Express Compatibility Matrix](#) for a list of supported languages.

# Task List

Installing a software image entails the following sequence of tasks:

**Table 9** Task List for Reinstalling a Cisco Unity Express Image Using the Boothelper

Checklist	Checkoff
1. Back up your data and configuration files. See “Appendix A: Backing Up Files” on page 63.	<input type="checkbox"/>
2. Download the software image files. See “Downloading the Software Files” on page 50.	<input type="checkbox"/>
3. Enter bootloader configuration parameter values. See “Entering Configuration Parameter Values” on page 52.	<input type="checkbox"/>
4. Install the software files. See “Installing Software Image Files” on page 53.	<input type="checkbox"/>
5. Restore the data and configuration files. See “Appendix B: Restoring Files” on page 65.	<input type="checkbox"/>

## Downloading the Software Files

Downloading the Cisco Unity Express software files is the first software installation task. Review the prerequisites listed above to ensure that all servers and modules are active and available.

### SUMMARY STEPS

1. Log in and go to the Cisco Unity Express product website at:  
<http://www.cisco.com/en/US/products/sw/voicesw/ps5520/index.html>
2. Click the Download Software link.
3. Download the Cisco Unity Express software files, one zip file and one language package file for each language.
4. Extract the five core files from the zip file.
5. Copy the extracted files and the language package file(s) to the FTP server.
6. Copy the cue-installer.<platform>. <ver> file to the TFTP server.
7. Copy the other software files to the FTP server.

### DETAILED STEPS

- 
- Step 1** Log in and go to the Cisco Unity Express product website at:  
<http://www.cisco.com/en/US/products/sw/voicesw/ps5520/index.html>
- Step 2** Click the Download Software link.
- Step 3** Download the appropriate Cisco Unity Express software files.
- **cue-vm-k9.plat.ver.zip** (application package file)
  - **cue-vm-lang-langpack.plat.ver.prt1** (language package file)

The key to the placeholders in the above-mentioned filenames is in [Table 5](#).

**Step 4** From the zip file, extract the core files:

**For AIM2-CUE and NME-CUE:**

- cue-installer.nmx.8.0.x
- cue-vm-k9.nmx.8.0.x.pkg
- cue-vm-full-k9.nmx.8.0.x.prt1
- cue-vm-installer-k9.nmx.8.0.x.prt1
- cue-vm-langpack.nmx.8.0.x.prt1

**For ISM-SRE-300-K9 and SM-SRE-700-K9 modules:**

- cue-installer.sme.8.0.x
- cue-vm-k9.sme.8.0.x.pkg
- cue-vm-full-k9.sme.8.0.x.prt1
- cue-vm-installer-k9.sme.8.0.x.prt1
- cue-vm-langpack.sme.8.0.x.prt1

**For ISE-CUE modules pre-installed on the Cisco 1861:**

- cue-installer.ise.8.0.x
- cue-vm-k9.ise.8.0.x.pkg
- cue-vm-full-k9.ise.8.0.x.prt1
- cue-vm-installer-k9.ise.8.0.x.prt1
- cue-vm-langpack.ise.8.0.x.prt1

**Step 5** Copy the installer file for your hardware module to the TFTP server:

- AIM2-CUE and NME-CUE: **cue-installer.nmx.8.0.x**
- ISM-SRE-300-K9 and SM-SRE-700-K9: **cue-installer.sme.8.0.x**
- For the ISE-CUE on the Cisco 1861: **cue-installer.ise.8.0.x**

**Step 6** Copy the other software files to the FTP server.

---

## What to Do Next

- Back up your data and configuration files. See [“Appendix A: Backing Up Files” on page 63](#).
- After backing up the files, configure parameter values. See [“Entering Configuration Parameter Values” on page 52](#).

# Entering Configuration Parameter Values

You must configure some parameters in the Cisco Unity Express server to be able to download the Cisco Unity Express software files.

## SUMMARY STEPS

1. **reload**
2. Type “\*\*\*” to enter bootloader mode.
3. **config**
4. Enter the values for the following parameters:
  - Network module’s IP address
  - Subnet mask
  - TFTP server address
  - Gateway router address
  - Ethernet interface is internal
  - Default helper image is **cue-installer.plat.ver**
  - Default boot setting
  - Default bootloader is primary
5. Boot the module with the boothelper.

## DETAILED STEPS

- 
- Step 1** Type **reload** to restart the system.
- Step 2** Type “\*\*\*” to enter the bootloader mode.
- Step 3** Type **config** to enter configuration mode.
- Step 4** Enter the values for the following parameters:

- Network module’s IP address
- Subnet mask
- TFTP server address
- Gateway router address
- Ethernet interface: **internal**
- Default helper image: **cue-installer.plat.ver**
- Default boot: **disk**
- Default bootloader: **primary**




---

**Note** We recommend that you use the primary bootloader as the default when installing.

---

- Step 5** Type **boot helper** to begin the installation. This will load the installer.
-

## What to Do Next

Install the software files. See the [“Installing Software Image Files”](#) section on page 53.

## Installing Software Image Files

After the boot-helper installer (from [Step 5](#) above) comes up, you are ready to install the software image files.

## Prerequisites

Installing the software image files requires the following information:

- TFTP server IP address
- FTP server IP address
- FTP server username
- FTP server password
- Software package name

## SUMMARY STEPS

From the list of options presented by the helper installer:

1. Select the first choice, Install Software, from the install menu.
2. Enter the package name, FTP server address, username, and password.
3. Select the required languages from the language selection menu.
4. Enter **x** when finished with the language selection menu.
5. Enter **y** to begin the initial configuration in the postinstallation configuration menu.
6. Enter **y** to restore the configuration saved in flash memory or **n** to use your backup to restore your configuration.
7. Enter the Cisco Unity Express administrator ID. This is the username to log in to the Cisco Unity Express GUI.
8. Enter the **show software versions** command to verify the installation.

## DETAILED STEPS

**Step 1** Select the first choice, Install Software, from the install menu:

```
Welcome to Cisco Systems Service Engine Helper Software
Please select from the following
1      Install software
2      Reload module
(Type '?' at any time for help)
Choice: 1
```

**Step 2** Enter the package name, FTP server address, username, and password:

```
Package name: cue-vm-k9.plat.ver.pkg
Server url: ftp://10.37.162.120/
Username: cue
Password: *****
Software installation will clear disk contents
Continue [y/n]? y
```



**Caution** This step cleans the disk. All configuration and voice messages are lost after this step. For future upgrades and installations, verify that a backup has been done. If it has not, abort at this step and do a backup. See [“Appendix A: Backing Up Files”](#) on page 63.

**Step 3** Select the language version from the language selection menu:

Language Selection Menu:

```
# Selected  SKU      Language Name (version)
-----
1 PTB CUE Voicemail Brazilian Portuguese (8.0.1.0)
2 RUS CUE Voicemail Russian (8.0.1.0)
3 DEU CUE Voicemail German (8.0.1.0)
4 NLD CUE Voicemail Dutch (8.0.1.0)
5 FRC CUE Voicemail Canadian French (8.0.1.0)
6 KOR CUE Voicemail Korean (8.0.1.0)
7 CHS CUE Voicemail Mandarin Chinese (8.0.1.0)
8 ESO CUE Voicemail Latin American Spanish (8.0.1.0)
9 ITA CUE Voicemail Italian (8.0.1.0)
10 ESM CUE Voicemail Mexican Spanish (8.0.1.0)
11 ESP CUE Voicemail European Spanish (8.0.1.0)
12 TUR CUE Voicemail Turkish (8.0.1.0)
13 ENG CUE Voicemail UK English (8.0.1.0)
14 ARA CUE Voicemail Arabic (8.0.1.0)
15 SVE CUE Voicemail Swedish (8.0.1.0)
16 FRA CUE Voicemail European French (8.0.1.0)
17 DAN CUE Voicemail Danish (8.0.1.0)
18 JPN CUE Voicemail Japanese (8.0.1.0)
-----
```

Available commands are:

```
# - enter the number for the language to select one
r # - remove the language for given #
i # - more information about the language for given #
x - Done with language selection
```

>6



**Note**

Select the language that was previously configured as the system default on the system running the earlier version. If you want to change the language support as part of the upgrade, additional preparation is required. For example, users, audio prompts, triggers and some custom scripts might be defined with a different language than the system default. If these are not updated correctly, then audio prompts for users defined with other languages might not work. See [“Appendix C: Language Upgrade Preparation”](#) on page 67.

**Step 4** Your choice appears as an “\*” in the language selection menu. Use the menu to add, remove, or get information about languages. Enter x when finished. The example below shows that Italian and Mexican Spanish are selected.

Language Selection Menu:

```
# Selected   SKU       Language Name (version)
-----
1 PTB CUE Voicemail Brazilian Portuguese (8.0.1.0)
2 RUS CUE Voicemail Russian (8.0.1.0)
3 DEU CUE Voicemail German (8.0.1.0)
4 NLD CUE Voicemail Dutch (8.0.1.0)
5 FRC CUE Voicemail Canadian French (8.0.1.0)
6 KOR CUE Voicemail Korean (8.0.1.0)
7 CHS CUE Voicemail Mandarin Chinese (8.0.1.0)
8 ESO CUE Voicemail Latin American Spanish (8.0.1.0)
9 * ITA CUE Voicemail Italian (8.0.1.0)
10 * ESM CUE Voicemail Mexican Spanish (8.0.1.0)
11 ESP CUE Voicemail European Spanish (8.0.1.0)
12 TUR CUE Voicemail Turkish (8.0.1.0)
13 ENG CUE Voicemail UK English (8.0.1.0)
14 ARA CUE Voicemail Arabic (8.0.1.0)
15 SVE CUE Voicemail Swedish (8.0.1.0)
16 FRA CUE Voicemail European French (8.0.1.0)
17 DAN CUE Voicemail Danish (8.0.1.0)
18 JPN CUE Voicemail Japanese (8.0.1.0)
-----
```

Available commands are:

```
# - enter the number for the language to select one
r # - remove the language for given #
i # - more information about the language for given #
x - Done with language selection
```

>x



**Note**

The software is installed and the system restarts.

**Step 5** After the system reloads, enter **y** to begin the initial configuration:

```
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)? y
```

**Step 6** Enter the appropriate response **y** or **n**. See the output below to determine your configuration needs.

```
IMPORTANT::
IMPORTANT:: A Cisco Unity Express configuration has been found in flash.
IMPORTANT:: You can choose to restore this configuration into the
IMPORTANT:: current image.
IMPORTANT::
IMPORTANT:: A stored configuration contains some of the data from a
IMPORTANT:: previous installation, but not as much as a backup. For
IMPORTANT:: example: voice messages, user passwords, user PINs, and
IMPORTANT:: auto attendant scripts are included in a backup, but are
IMPORTANT:: not saved with the configuration.
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 are going to restore a backup from a previous
IMPORTANT:: installation, you should not 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)

**Step 7** Enter the Cisco Unity Express administrator ID. This is the username to log in to the Cisco Unity Express GUI.

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

```
Enter administrator user ID:
  (user ID): Admin
Enter password for admin:
  (password): *****
Confirm password for admin by reentering it:
  (password): *****
```

se-172-16-0-0>

**Step 8** Use the **show software version** command to verify the upgrade.

```
se-172-16-0-0# show software version
Cisco Unity Express version (8.0.1)

Components:

- CUE Voicemail Language Support version 8.0.1.0

se-172-16-0-0#
```

To find out all the details, use the **show software version detail** command.

```
se-172-16-0-0# sh soft ver detail
Cisco Unity Express version (8.0.1)

Applications:

Name: Installer (8.0.1)
Desc: Installer application
```

```

    id: a0fb9f0a-fa5c-4b21-a64c-0cb9d6379573
Type: (installer)

Name: Thirdparty (8.0.1.0)
Desc: Service Engine Thirdparty Code
    id: a3442277-7890-4782-9e6b-9d19efc1e0d8
Type: (application)

Name: Bootloader (Primary) (2.1.14)
Desc: Service Engine Bootloader
    id: 13b08c00-19f7-4b81-97c7-f1d7fb7a8fd5
Type: (bootloader)

Name: Infrastructure (8.0.1.0)
Desc: Service Engine Infrastructure
    id: a36e1be1-ce8a-4f53-ace7-1844262aa0b9
Type: (application)

Name: Global (8.0.1)
Desc: Global manifest
    id: edceaf0b-a890-4045-9086-5452fac85eba
Type: (application)

Name: Service Engine license (2.1.2.0)
Desc: License for the Service Engine
    id: d1ba3d34-06c2-4461-8600-a0c244ef8457
Type: (license)

Name: Auto Attendant (8.0.1.0)
Desc: Service Engine Telephony Infrastructure
    id: e3db91b0-f47d-460c-ad22-65001a5d45a9
Type: (application)

Name: Voice Mail (8.0.1.0)
Desc: Voicemail application
    id: 8e7823e2-0e92-4470-8860-653246345f9d
Type: (application)

Name: Bootloader (Secondary) (2.1.15.14)
Desc: Service Engine Bootloader
    id: 9d7b26fb-21b2-416e-8b65-425c2f8da5d8
Type: (bootloader)

Name: Core (8.0.1.0)
Desc: Service Engine OS Core
    id: 430f25f9-0fed-48a4-b362-823937138501
Type: (application)

Name: GPL Infrastructure (8.0.1.0)
Desc: Service Engine GPL Infrastructure
    id: 9f112eb1-6f58-4dd4-8faa-8530467af3b9
Type: (application)

```

Components:

```

Name: CUE Voicemail Language Support (8.0.1.0)
Desc: Languages global pack
    id: e2e81cc6-39b5-47e1-9f83-b83c897fc50c
Type: (plug-in)

Name: CUE Voicemail US English (8.0.1.0)
Desc: English language pack
    id: 27e5e2ab-1622-4c02-8a0a-cfad0d932148

```

```
Type: (plug-in)

Name: CUE Voicemail UK English (8.0.1.0)
Desc: British English language pack
     id: fa803d25-9c89-4171-a14c-ec12d6ed6b8c
Type: (plug-in)
```

```
se-172-16-0-0#
```

---

## What to Do Next

1. Restore the data and configuration files. See [“Appendix B: Restoring Files”](#) on page 65.
2. Reboot the system.
3. Install the license files, making sure they are the same version as the software package. See the [“Upgrading or Downgrading the Cisco Unity Express License in the Same Version”](#) section on page 59.
4. Configure new system features. See the *Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions*.



# Upgrading or Downgrading the Cisco Unity Express License in the Same Version

---

**Last Updated: June 2, 2010**

This chapter describes how to change the license size for Cisco Unity Express systems without changing the version. The procedures in this chapter apply if you are upgrading to a license with support for more mailboxes, downgrading to a license with support for fewer mailboxes, or changing your Interactive Voice Response (IVR) license.

This procedure is a *clean* installation, which uses the software installer in the application. The clean installation permits the system to remain operational while the new software files are downloaded in the background. You must back up and restore your configuration files. You need only an FTP server for the installation.

This chapter contains the following sections:

- [New License System, page 59](#)
  - [Installation Sequence, page 60](#)
  - [Mailbox Licenses, page 60](#)
  - [Interactive Voice Response Licenses, page 60](#)
  - [Voice Port Licenses, page 60](#)
- [Task List, page 60](#)
- [Changing Your IVR License, page 61](#)

## New License System

Cisco Unity Express 8.0 licenses are based on the the Cisco Software Licensing (CSL) system. With CSL licenses, the mailbox license count includes both personal mailboxes and GDMs. The type of the mailbox is determined when it is configured. Also, the call-agent is no longer specified using licenses and can be configured either as part of post-install process or during bootup.

CSL licensing is explained further in this guide and in [Software Activation of Cisco Unity Express 7.1 and Later Versions](#).

## Installation Sequence

Install licenses in the following order:

1. Mailbox licenses
2. Voice Port licenses
3. IVR licenses

## Mailbox Licenses

If you are changing to a smaller mailbox license, verify that you have reduced the number of configured mailboxes correspondingly before downloading the new license. For example, if you are downgrading from a 50 mailbox license to a 10 mailbox license, ensure that your system does not have more than 10 configured mailboxes. If you have more than 10 mailboxes, delete the superfluous mailboxes before downgrading the license.

## Voice Port Licenses

Devices ordered with CSL licenses will come with some number of voice port licenses pre-installed. The number varies by platform. On some platforms, you can add additional voice port licenses in increments of two voice ports for each license. See the [Release Notes for Cisco Unity Express 8.0](#) for the number of voice ports supported for a given device.

Installing or removing an incremental license will fail if the resulting number of voice ports is more than the number of IVR sessions for which you have licenses plus two (2).

## Interactive Voice Response Licenses

If you are installing IVR, make sure that the IVR license is compatible with your platform and with your Cisco Unified Communications Manager system. See the [Release Notes for Cisco Unity Express 8.0](#).

## Task List

Changing your license requires the following sequence of activities:

**Table 10** Task List for Upgrading or Downgrading the Cisco Unity Express License

Checklist	Checkoff
<p>1. Determine which license SKU(s) you are currently using. Select from the following list or use the <b>show</b> commands as described in <a href="#">Software Activation of Cisco Unity Express 7.1 and Later Versions</a>.</p> <p><b>Note</b> If you require IVR, you must purchase an additional license specifically for this purpose.</p>	
<p><b>Mailbox Licenses</b></p> <ul style="list-style-type: none"> <li>• FL-CUE-MBX-5</li> <li>• FL-CUE-NR-MBX-5</li> </ul>	<input type="checkbox"/>

**Table 10** Task List for Upgrading or Downgrading the Cisco Unity Express License (continued)

Checklist	Checkoff
<b>Voice Port Licenses</b> <ul style="list-style-type: none"> <li>• FL-CUE-PORT-2</li> <li>• FL-CUE-NR-PORT-2</li> </ul>	<input type="checkbox"/>
<b>Interactive Voice Response Licenses</b> <ul style="list-style-type: none"> <li>• FL-CUE-IVR-2</li> <li>• FL-CUE-NR-IVR-2</li> </ul>	<input type="checkbox"/>
2. Save the current configuration.	<input type="checkbox"/>
3. Download and install the new CSL license file(s) as described in <a href="#">Software Activation of Cisco Unity Express 7.1 and Later Versions</a> .	<input type="checkbox"/>
4. Run the initialization wizard. See the GUI online help.	<input type="checkbox"/>

## Changing Your IVR License

You can upgrade, downgrade, or remove your IVR license. For more information, see [Software Activation of Cisco Unity Express 7.1 and Later Versions](#).

## What to Do Next

- Enter the **show license status application voicemail** command to display the voicemail license status.

```
se-10-0-0-0# show license status application voicemail
voicemail enabled: 6 ports, 2 sessions, 5 mailboxes
```

- Enter the **show license status application ivr** command to display the IVR license status.

```
se-10-0-0-0# show license status application ivr
ivr enabled, 4 sessions
```

- Enter the **show license status application timecardview** command to display the timecardview license status.

```
se-10-0-0-0# show license status application timecardview
tcv enabled: 4 users
```

- Enter the **show software license** command to display the voice port licenses on the system and to display the number of ports available in the field “Total usable system ports”.

If you have not yet reloaded the system with the new license, the old license information appears.

```
se-1-100-50-125> show software licenses
Installed license files:
- voicemail_lic.sig : 100 MAILBOX LICENSE
- ivr_lic.sig : 2 PORT IVR BASE LICENSE
- port_lic.sig : 8 PORT BASE LICENSE
```

```
Core:
- Application mode: CCME
```

- Total usable system ports: 24

## Voicemail/Auto Attendant:

- Max system mailbox capacity time: 18000
- Default # of general delivery mailboxes: 20
- Default # of personal mailboxes: 100
  
- Max # of configurable mailboxes: 120

## Interactive Voice Response:

- Max # of IVR sessions: 2

## Languages:

- Max installed languages: 5
- Max enabled languages: 5



## Appendix A: Backing Up Files

---

**Last Updated: June 2, 2010**

Enter backup commands in EXEC mode after moving the system offline. Any system configuration is not allowed when it is in offline state.



**Note**

---

We recommend that you back up your configuration files whenever changes are made to the system or application files. Because data files contain voice messages, back them up daily to minimize data loss, such as from a hardware failure.

---

### Numbering Scheme for Backup Files

Four types of backup requests are available: data only, configuration only, historical data, or all.

- Data—backs up voice-mail messages
- Configuration—Backs up the running configuration, greetings, recorded names, and custom scripts and prompts. Use the **show run** command to display the current running configuration.
- Historical Data—backs up historical information about call and application activities that have occurred on the module
- All— backs up all data and configuration information

Cisco Unity Express automatically numbers and dates the backup files and identifies the revision number in a **backupid** field.

Performing different backup types at various times causes different backup IDs for data backups and configuration backups. For example, the last data backup ID might be 3, and the last configuration backup might be 4. Performing an “all” backup might result in a backup ID of 5 for data, historical data, and configuration.

When restoring the files, see the backup ID for the backup file that you want to use. Use the **show backup server** command for a list of backup IDs.

### Prerequisite

- Before you can back up your data, you must have a configured backup server. See the [Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions](#) and the GUI online help.

**SUMMARY STEPS**

1. **offline**
2. **backup category {all | configuration | historicaldata | data}**
3. **continue**
4. **show backup history**
5. **show backup server**

**DETAILED STEPS**

	<b>Command or Action</b>	<b>Purpose</b>
<b>Step 1</b>	<b>offline</b>  <b>Example:</b> se-10-0-0-0# offline	Enters offline mode. All active voice-mail calls are terminated.
<b>Step 2</b>	<b>backup category {all   configuration   historicaldata   data}</b>  <b>Example:</b> se-10-0-0-0(offline)# backup category all se-10-0-0-0(offline)# backup category configuration se-10-0-0-0(offline)# backup category data se-10-0-0-0(offline)# backup category historicaldata	Specifies the type of data to be backed up and stored.
<b>Step 3</b>	<b>continue</b>  <b>Example:</b> se-10-0-0-0(offline)# continue	Exits offline mode and enters EXEC mode.
<b>Step 4</b>	<b>show backup history</b>  <b>Example:</b> se-10-0-0-0# show backup history	Displays the backup and restore procedures and the success or failure of those attempts.
<b>Step 5</b>	<b>show backup server</b>  <b>Example:</b> se-10-0-0-0# show backup server	Displays the backup files available on the backup server, the date of each backup, and the backup file ID.



## Appendix B: Restoring Files

**Last Updated: June 2, 2010**

After the backup files are created, you can restore them when needed. Restoring is done in offline mode. Active calls, IMAP, and VoiceView sessions are terminated, and no new calls are accepted (autoattendant calls are permitted). You should consider doing the restore when telephone subscribers are least likely to be on the telephone.

Use the **show backup server** command to locate the backup ID of the file that you want to restore.

See the [Cisco Unity Express Voice-Mail and Auto-Attendant CLI Administrator Guide for 3.0 and Later Versions](#) and the GUI online help.

### SUMMARY STEPS

1. **show backup server**
2. **offline**
3. **restore id *backupid* category {all | configuration | data}**
4. **reload**
5. **show backup history**

### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>show backup server</b>  <b>Example:</b> se-10-0-0-0# show backup server	Lists the data and configuration backup files. Look at the backup ID field for the revision number of the file that you want to restore.
Step 2	<b>offline</b>  <b>Example:</b> se-10-0-0-0# offline	Enters offline mode. All active voice-mail calls are terminated.

	Command or Action	Purpose
Step 3	<p><b>restore id</b> <i>backupid</i> <b>category</b> {<b>all</b>   <b>configuration</b>   <b>historicaldata</b>   <b>data</b>}</p> <p><b>Example:</b>  se-10-0-0-0(offline)# restore id 22 category all  se-10-0-0-0(offline)# restore id 8 category configuration  se-10-0-0-0(offline)# restore id 3 category data</p>	Specifies the backup ID <i>backupid</i> value and the file type to be restored.
Step 4	<p><b>reload</b></p> <p><b>Example:</b>  se-10-0-0-0(offline)# reload</p>	Resets the Cisco Unity Express module so that the restored values take effect.
Step 5	<p><b>show backup history</b></p> <p><b>Example:</b>  se-10-0-0-0# show backup history</p>	Displays the backup and restore procedures and the success or failure of those attempts.



## Appendix C: Language Upgrade Preparation

---

**Last Updated: December 10, 2010**

When upgrading your Cisco Unity Express software version, you can change the default system language supported. There are tasks required if you want to update the system language support as part of the upgrade. If any users, audio prompts, triggers or selected custom script steps have a language defined that is different from the system default language, then those elements of the system must be updated accordingly. Otherwise, some voice-mail users might have difficulty accessing their mailboxes.

If you are changing the default system language during an upgrade, then you must use the **software install clean** command. For more information, see the [“What to Do Next” section on page 47](#).

### Updating Language Support for Specific Voice-Mail Users

Use this procedure to update voice-mail language support for specific users.

#### SUMMARY STEPS

1. **show users**
2. **show user detail username userid**
3. **username userid language xx\_YY**

#### DETAILED STEPS

---

- Step 1** Enter the **show users** command to get a list of users.
- Step 2** For each user, enter the **show user detail username userid** command.  
The display shows the voice-mail subscriber, and the language used for prompts for the subscriber.  
For each subscriber whose language support is different from the new language that is being installed, proceed to the next step.
- Step 3** Enter the **username userid language xx\_YY** command, and change the language to systemDefault.  
`username johnsmith language en_US`
-


## Updating the System Audio Prompt Languages

Use this procedure to update the system audio prompt language.

### SUMMARY STEPS

1. **show ccn prompts**
2. **ccn copy prompt** *prompt-filename* **url ftp://destination-ip-address/prompt-filename** [**language** *xx\_YY*] [**username** *name* **password** *password*]
3. Perform the system upgrade.
4. **ccn copy url ftp://source-ip-address/prompt-filename.wav** **prompt** *prompt-filename.wav* [**language** *xx\_YY*] [**username** *name* **password** *password*]

### DETAILED STEPS

- 
- Step 1** Enter the **show ccn prompts** command to get a list of audio prompts
- Each audio prompt shown in the display must be backed up individually. You can back up the prompts using the GUI, or you can use the CLI in the next step.
- Step 2** Copy each file to an FTP server using the following command syntax:
- ccn copy prompt** *prompt-filename* **url ftp://destination-ip-address/prompt-filename** [**language** *xx\_YY*] [**username** *name* **password** *password*]
- 
-  **Caution** If this step is not done, then the audio prompts disappear and cannot be restored using the regular restore procedure.
- 
- Step 3** Perform the system upgrade. Follow the instructions in the [“What to Do Next” section on page 47](#).
- Step 4** After the system is initialized with the new language, upload each prompt using either the GUI or the following command syntax:
- ccn copy url ftp://source-ip-address/prompt-filename.wav** **prompt** *prompt-filename.wav* [**language** *xx\_YY*] [**username** *name* **password** *password*]
- 

## Updating the Application Prompt Languages in Triggers

Before upgrading to a different language, you must first make sure all triggers are configured to the system Default value. Use this procedure to update the application prompt languages in any configured triggers.

### SUMMARY STEPS

1. **show ccn trigger**
2. **config t**
3. **ccn trigger {jtapi | sip} phonenumber** *number*
4. **locale** *xx\_YY*

## DETAILED STEPS

- 
- Step 1** Enter the **show ccn trigger** command to get a list of phone numbers that are assigned to any configured triggers on your system.
  - Step 2** Enter **config t** to enter configuration mode.
  - Step 3** Enter **ccn trigger {jtapi | sip} phonenumber number** to enter either JTAPI or SIP trigger configuration mode.
  - Step 4** Enter the **locale xx\_YY** command to change the language heard by the caller when a JTAPI or SIP trigger is activated for the phone number to the system default value.
- 

## Updating Custom Autoattendant Steps

If your system is configured with a custom autoattendant script, check each step for any possible language dependencies. Some setups that generate prompts might allow the language to be specified. Back up any custom scripts separately. You must change these steps if the language is changed during an upgrade. For more information on writing custom scripts, see the [Cisco Unity Express 7.1 Guide to Writing and Editing Scripts](#).

## Verifying the New Language Support

After you perform the upgrade and restore the old configuration files and data, test the autoattendant and selected voice-mail boxes. Make sure that you can hear the correct system greetings when you log in to a voice-mail mailbox. Check the autoattendants to make sure all prompts are properly uploaded.





## INDEX

---

### A

- access lists [14](#)
- active calls
  - backup [65](#)
- administrator
  - password [17, 26](#)
  - user ID [17, 26](#)

---

### B

- backup
  - active calls [65](#)
  - numbering scheme [63](#)
- backup category command [64](#)
- boot helper [49](#)

---

### C

- call processing [14](#)
- Cisco Unified CME
  - Flash memory files [10](#)
  - IP path command [10, 11](#)
  - web administrator [12](#)
- Cisco Unified CME web page [10](#)
- Cisco Unified Communications Manager
  - CTI ports [14](#)
- Cisco Unity Express
  - software files [21, 36, 50](#)
- command
  - backup category [64](#)
  - continue [64](#)
  - interface integrated-service-engine [12, 14](#)

- interface internal-service-module command [12, 14](#)
  - interface ism [12, 14](#)
  - interface Service-Engine [19](#)
  - interface sm [12, 14, 27](#)
  - ip address [19, 27](#)
  - IP path [10](#)
  - ip unnumbered [19, 27](#)
  - ism [27](#)
  - offline [64, 65](#)
  - reload [65](#)
  - restore id [65](#)
  - service-module [20, 27](#)
  - service-module ip default-gateway [28](#)
  - service-module ism install [29](#)
  - service-module ism status [31](#)
  - service-module ism uninstall [31](#)
  - service-module sm install [29](#)
  - service-module sm status [31](#)
  - service-module sm uninstall [31](#)
  - show backup history [64, 65](#)
  - show backup server [65](#)
    - show backup server command [64](#)
  - show software versions [45, 56](#)
  - show software versions detail [45, 56](#)
- commands
- show license status application ivr [61](#)
  - show license status application timecardview command [61](#)
  - show license status application voicemail [61](#)
- configuring
- dial peer [12](#)
  - ephone-dn [10](#)
  - IP addresses [17, 26](#)

configuring IP connectivity [11](#)  
 continue command [64](#)  
 creating users and telephones [9](#)  
 CTI ports [14](#)

---

## D

default gateway [18, 27](#)  
 Device option [14](#)  
 dial peer [12](#)  
 DNS server [17, 26](#)

---

## E

ephone [10](#)  
 ephone-dn [10](#)  
 Etherswitch module [11, 13](#)

---

## F

factory-set system limits [5](#)

---

## G

G.711 ulaw [12](#)  
 graceful shutdown [5](#)

---

## I

installing  
     software image [50](#)  
 Interactive Voice-Mail license [59](#)  
 interface integrated-service-engine command [12, 14](#)  
 interface internal-service-module command [12, 14](#)  
 interface ism command [12, 14, 27](#)  
 interface Service-Engine command [19](#)  
 interface sm command [12, 14, 27](#)  
 IP

    addressing [17, 26](#)  
 IP address, Cisco Unity Express module [11, 13](#)  
 ip address command [19, 27](#)  
 IP connectivity, configuring [11](#)  
 IP path for Cisco Unified CME [10, 11](#)  
 ip unnumbered command [19, 27](#)  
 IVR [59](#)  
     License, changing [61](#)

---

## J

JTAPI traffic, prioritizing [14](#)

---

## L

Languages  
     installing additional [20](#)  
     removing [23](#)  
 language upgrades [67](#)

---

## M

maximum number of triggers [5](#)  
 module IP address [11, 13](#)

---

## N

NTP server [17, 26](#)  
 numbering scheme, backup files [63](#)

---

## O

offline command [64, 65](#)  
 offline mode [63, 65](#)  
 option  
     Device [14](#)

---

**P**

## Prerequisites

- Cisco Unified Communications Manager [13](#)
- Cisco Unified Communications Manager Express [9](#)

---

**R**

- reload command [65](#)
- restore
  - procedure [65](#)
- restore id command [65](#)

---

**S**

- servers
  - DNS [17, 26](#)
  - NTP [17, 26](#)
- service-module command [20, 27](#)
- service-module ip default-gateway command [28](#)
- service-module ism install command [29](#)
- service-module ism status command [31](#)
- service-module ism uninstall command [31](#)
- service-module sm install command [29](#)
- service-module sm status command [31](#)
- service-module sm uninstall command [31](#)
- show backup history command [64, 65](#)
- show backup server command [65](#)
- show license status application ivr command [61](#)
- show license status application timecardview command [61](#)
- show license status application voicemail command [61](#)
- show software versions command [45, 56](#)
- show software versions detail command [45, 56](#)
- SIP dial peer [12](#)
- SKUs [60](#)
- software files [21, 36, 50](#)
- software image, installing [50](#)
- system limits

- factory set [5](#)

---

**T**

- triggers
  - maximum number [5](#)

---

**U**

- uninterruptible power supply [5](#)
- Upgrades
  - types [4](#)
- upgrading
  - languages [67](#)
- UPS [5](#)

---

**V**

- VLAN interface [11, 13](#)

---

**W**

- web administrator [12](#)
- web page
  - Cisco Unified CME [10](#)

