



Installing Cisco Unity Connection

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Introduction

Cisco Unity Connection can be deployed in either of the following ways:

- **Standalone Deployment:** Involves the installation of a Unity Connection as a single server.
- **Cluster Deployment:** Involves the installation of same version of two Unity Connection servers in an active-active or high availability mode. During the installation of Unity Connection as a cluster, the first server is referred to as publisher server and the second server as the subscriber server. For more information on cluster configuration, see the [Configuring Cisco Unity Connection Cluster](#) chapter.



Note Unity Connection 10.0(1) and later releases can only be installed on virtual machines. For more information, see the http://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-unity-connection.html.

Methods of Installation

You can use either of the following methods to install standalone or cluster server:

- **Standard Installation:** Allows you to manually specify the installation information, such as hostname and IP address using installation wizard.

- **Unattended Installation:** Allows you to install Unity Connection using an installation disk and a pre-configured answer file floppy diskette. The answer file has all the information required for unattended installation. Unattended installation is a seamless process of installation that allows you to start installation on both the publisher and subscriber servers simultaneously. The subscriber installation continues when the publisher is successfully installed. This type of unattended installation is Touchless Installation. For more information on Touchless Installation, see the [Touchless Installation for Virtual Machine](#).

**Note**

- You can also perform fresh installation of Unity Connection 14 and later using Cisco Prime Collaboration Deployment. For more information on Cisco PCD, see <http://www.cisco.com/c/en/us/products/cloud-systems-management/prime-collaboration/index.html>
- The answer file supports only fresh installs and does not support upgrades.

- **Install with Data Import:** Cisco Unity Connection 14SU1 and later releases, supports installation of Unity Connection along with the data import from the previous releases. It involves migration of data by exporting source release data to SFTP server, and installing a new machine with import of that data. Examples of data that you can export and import are component specific configurations files, voicemails, DB related files, platform provision data and platform files like certificates. For more details, see [Install with Data Import](#) section.

Important Considerations for Installation

Before you proceed with the installation, consider the following points:

- Verify the system requirements, such as licensing and phone integration requirements necessary for the Unity Connection server in the System Requirements for Cisco Unity Connection guide at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/11x/requirements/b_11xcucsysreqs.html.
- Be aware that when you install on an existing Unity Connection server, the hard drive gets formatted and all existing data on the drive gets overwritten.
- Ensure that you connect each Unity Connection server to an uninterruptible power supply (UPS) to provide power backup and protect your system. Failure to do so may result in damage to physical media and require a new installation.
- For a Unity Connection cluster:
 - Install the Unity Connection software first on the publisher server and then on the subscriber server (applicable to only standard installation scenarios). For more information on installation scenarios, see [Installation Scenarios](#).
 - Note down the Security password that you mention at the time of installing publisher server. You need to specify the same password when installing the subscriber server in a cluster.
 - Do not run Network Address Translation (NAT) or Port Address Translation (PAT) between the publisher and subscriber servers.
- Verify that DNS server is properly configured before installing Unity Connection. For more information, see the [Verifying DNS Settings](#).

- Do not perform any configuration changes during the installation.
- Be aware that the directory names and filenames that you enter during the installation are case-sensitive.

Install with Data Import

When the migration cluster is created using **Install with Data Import** installation method, you must indicate whether all destination cluster nodes will keep the same hostname or IP address, or if some of these addresses will be changing. Depending upon this there are two types of Data Migration as explained below:

- **Simple Migration:** Using the source node settings for all destination cluster nodes is referred to Simple Migration.
- **Network Migration:** Entering new network settings for one or more destination cluster nodes is referred to Network Migration.



Caution

1. If Intrasite, HTTPS and SRSV networking is configured remove the server from the Unity Connection site before performing Install with Data Import. For instructions, see the Networking Guide for Cisco Unity Connection Release 14 available at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/14/networking/guide/b_14cucnetx.html.
2. If Google Workspace is configured with Unity Connection, save and reset the Google Workspace unified messaging service on Unity Connection after performing Install with Data Import. Also disable the Google Workspace unified messaging service from Unity Connection where data export CLI was executed before performing data import to prevent message duplicacy. For instructions, see section [Task List for Configuring Unified Messaging with Google Workspace](#) of the *Unified Messaging Guide for Cisco Unity Connection Release 14* available at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/14/unified_messaging/guide/b_14cucumgx.html

Following are the different ways to perform Install with Data Import:

1. Export data from source publisher node, Import data on destination publisher node and fresh install destination subscriber node.
2. Export data from both source publisher and subscriber nodes and import data on both destination nodes.



Note Data exported from Publisher Node cannot be imported on the Subscriber Node.

You can perform Export and Import of data by the following steps:

1. (Applicable for Unity Connection 14 release) Install the COP file **ciscocm.cuc_DataExport_v1.1.k4.cop.sha512** on both nodes of cluster.
2. You can use below CLI command to export source release data:

```
utils system upgrade dataexport initiate
```

Execute above CLI command on publisher node to export data. Export subscriber node data only after completion of export on publisher node as per requirement. For more information on CLI usage, see "Utils

Commands" chapter of the *Command Line Interface Reference Guide for Cisco Unified Communications Solutions* available at <https://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/products-command-reference-list.html>.

Please note the following information related to CLI:



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- Note**
- It is recommended to execute this CLI during Off hours to avoid voicemail impact. While CLI execution is in progress, you will not be able to access voicemails and send messages.
 - It is available on Unity Connection 14SU1 and later releases therefore COP installation step is not required.
 - It will continue to run in background in case of any network disconnect on Unity Connection 14SU1 and later releases. For Unity Connection Release 14, CLI will terminate in case of network disconnect.
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3. Import data on new virtual machines of release 14SU1 or later, using Import option available in Installation wizard. For more information see [Installing the Publisher Server, on page 12](#) section.



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- Note**
1. Make sure to install **ciscocm.cuc_preUpgradeCheck-001.k3.cop.sgn** COP on both nodes of the cluster and verify that the cluster is ready for migration before Data Export. Download the COP files from <https://software.cisco.com/download/home/286313379/type/286319537/release/COP-Files>.
 2. Make sure that the server on which Import is to be performed is created using recommended OVA. For more information, see https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-unity-connection.html.
 3. Once migrated, if for any reason you decide to roll back Data Export COP file on Unity Connection 14 Release, then install **ciscocm.cuc_DataExport_rollback_v1.1.k4.cop.sha512** COP file.
-

Pre-Installation Tasks

Before installing a Unity Connection server, you need to understand all the pre-installation steps as well. The [Table 1: Pre-Installation Tasks](#) contains a list of pre-installation tasks that you must consider to ensure successful installation of Unity Connection server.

Table 1: Pre-Installation Tasks

	Task	Important Notes
Step 1	Ensure that your servers are listed as supported hardware and sized appropriately to support the load of the cluster.	For information about the capacity of server m the link https://www.cisco.com/...
Step 2	Create the virtual machine using the correct OVA template.	For more information, see the Creating a Virtual section.

	Task	Important Notes
Step 3	Change the boot order of the virtual machine to update the BIOS settings.	For more information, see the Changing the Boot Order of Virtual Machine section.
Step 4	<p>Configure an external NTP server during a Unity Connection server installation.</p> <p>For a Unity Connection cluster, the NTP server helps to synchronize time between publisher and subscriber server. Ensure the external NTP server is stratum 9 or higher (meaning stratum 1-9). The subscriber server get its time from the publisher server.</p> <p>To verify the NTP status of the publisher server, log into the Command Line Interface on the publisher server and enter the following command:</p> <pre>utils ntp status</pre>	<p>For more information, see the Command Line Interface Reference Guide for Cisco Unified Solution Manager, release, available at http://www.cisco.com/cisco/en/products/voice/unity/unity_products/unity_products_command_line_interface_reference_guide.pdf</p> <p>Caution If the publisher server fails to connect to an NTP server, installing a new subscriber server can also fail.</p>
Step 5	Record the network interface card (NIC) speed and duplex settings of the switch port that connects to the new server.	Enable PortFast on all switch ports that are connected to Cisco servers. With PortFast enabled, the switch immediately brings a port from the blocking state to the forwarding state by eliminating the forwarding delay [the amount of time that a port waits before transitioning from its Spanning-Tree Protocol (STP) listening states to the forwarding state].
Step 6	Record the configurations settings for each server that you plan to install.	To record your configuration settings, see the Recording Configuration Information for Installation section.
Step 7	Download the signed .iso file of required Unity Connection version from Cisco.com. Upload it on a data store or burn a disk image of the downloaded software.	Download from the given link: https://software.cisco.com/download/navigator.html?mdfid=283062758&flowid=45673

Creating a Virtual Machine

To download the OVA template for creating virtual machines, open the following link, select Unity Connection Software, and then select the appropriate release number:

<https://software.cisco.com/download/type.html?mdfid=283062758&flowid=45673>.

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- Step 1** To deploy the OVA template in a supported VMware client, from the File menu, select Deploy OVA template.
 - Step 2** Next, browse the OVA template from the URL or file location on the system.
 - Step 3** Follow on-screen instructions to create the virtual machine.
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Changing the Boot Order of Virtual Machine

The virtual machine boot into the BIOS menu.

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- Step 1** In VMware client, power off the virtual machine that has the deployed OVA template.
 - Step 2** In the left pane of VMware client, right-click the name of the virtual machine, and select **Edit Settings**.
 - Step 3** In the Virtual Machine Properties dialog box, select the **Options** tab.
 - Step 4** In the Settings column, from the Advanced menu, select **Boot Options**.
 - Step 5** In the Force BIOS Setup, check the **The next time the virtual machine boots, force entry into the BIOS setup screen** check box.
 - Step 6** Select **OK** to close the Virtual Machine Properties dialog box.
 - Step 7** Power on the virtual machine.
 - Step 8** Navigate to the Boot menu and change the boot device order so the CD-ROM device is listed first and the Hard Drive device is listed second.
 - Step 9** Save the change and exit BIOS setup.
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Changing Reservation on Virtual Machines Running with E7 or E5 Processors

The CPU reservations are now included in OVAs, which are based on the Xeon 7500 processor. For E7 processors and certain E5 processors, the CPU reservations are higher than available cycles on 1 virtual CPU. In such cases, the administrator needs to change the reservation number of the virtual machine manually using the steps mentioned in [Changing the Reservation Numbers](#)

Additionally, based on the lab tests, we see that the 2.4 GHz reservation on E7 or E5 processor has the same performance as a 2.53 GHz Xeon 7500 processor.

For more information see the docwiki available at http://docwiki.cisco.com/wiki/UC_Virtualization_Supported_Hardware.

Changing the Reservation Numbers

- Step 1** In VMware vSphere Client, select the host on which virtual machine is created.
 - Step 2** Click the **Summary** tab, under CPU, note the available CPU cycles for 1 virtual CPU in GHz.
 - Step 3** Power off the virtual machine on which you deployed the OVA template
 - Step 4** In the left pane of vSphere Client, right-click the name of the virtual machine and select **Edit Settings**.
 - Step 5** In the Virtual Machine Properties dialog box, select the **Resources** tab.
 - Step 6** In the Settings column, select **CPU**.
 - Step 7** Under Resource Allocation, enter the new reservation value in the Reservation textbox. The new reservation value is calculated as the number of CPUsX2.4GHz (for E5440 processor) and the number of CPUs multiplied by the 1 virtual CPU cycles in GHz (from step 2) (for E7 processor).
 - Step 8** Click **OK** to close the Virtual Machine Properties dialog box.
 - Step 9** Power ON the virtual machine.
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Verifying DNS Settings

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- Step 1** Login to command prompt.
- Step 2** To ping each server by its DNS name, enter **ping***DNS_name*.
- Step 3** To look up each server by IP address, enter **nslookup***IP_address*.
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Gathering Information for Installation

Use the [Table 2: Gathering Information for Installation](#) to record the information about your server. Gather this information for a single Unity Connection server or for both the servers in a Unity Connection cluster. You should make copies of this table and record your entries for each server in a separate table.

Table 2: Gathering Information for Installation

Configuration Setting	Description	Can Setting Be Changed After
Time Zone: _____	<p>Sets the local time zone and offset from Greenwich Mean Time (GMT).</p> <p>Select the time zone that most closely matches the location of your server.</p> <p>Caution In a cluster, you must set the subscriber server to the same time zone as the publisher server.</p>	<p>Yes, using the CLI command</p> <p>CLI > set timezone</p>
MTU Size: _____	<p>Sets the largest packet, in bytes, that is transmitted by this host on the network.</p> <p>By default, MTU is set to the size defined in the operating system.</p> <p>Selecting a different packet size would be more prevalent where a VPN or IPsec tunnel is used with a custom packet size. Web access over VPN can cause web pages not to load because of an improper MTU configuration.</p> <p>The MTU size that you configure must not exceed the lowest MTU size that is configured on any link in your network.</p> <p>Note In clustered server pairs, the MTU setting must be the same on both servers</p>	<p>Yes, using the CLI command</p> <p>CLI > set network mtu</p>

Configuration Setting	Description	Can Setting Be Changed After Inst
<p>Hostname and IP addresses:</p> <p>DHCP (Yes/No): _____</p> <p>If DHCP is No:</p> <p>Hostname: _____</p> <p>IP Address: _____</p> <p>IP Mask: _____</p> <p>Gateway (GW) Address: _____</p>	<p>Sets whether to use DHCP to automatically configure the network settings on your server.</p> <p>If you select No, you must enter a hostname, IP address, IP address mask, and the gateway IP address.</p> <p>The hostname can contain up to 50 alphanumeric characters, hyphens, underscores, and period. The first character cannot be a hyphen.</p> <p>We recommend you use static Dynamic Host Control Protocol (DHCP) host configuration to ensure the DHCP server always provides the same IP address settings to the server</p> <p>Note If you do not have a gateway, you must still set this field to 255.255.255.255. Not specifying a gateway may limit you to only being able to communicate with devices on your subnet.</p> <p>Caution Make sure not to use ciscounity in the hostname of the server else enterprise replication gets broken.</p>	<p>Yes, using the CLI command</p> <p>CLI > set network dhcp</p> <p>CLI > set network gateway</p> <p>CLI > set network ip eth0</p>
<p>Domain Name Server:</p> <p>DNS: (Yes/No): _____</p> <p>If DNS is Yes:</p> <p>Domain: _____</p> <p>DNS Primary: _____</p> <p>DNS Secondary: _____</p>	<p>Sets whether a DNS server resolves a hostname and IP address.</p> <p>Note Unity Connection enables the use of a domain name server to locate other Cisco Unity servers and devices. This is necessary when configuring digital networking and clustered server pairs. We recommend you to configure a secondary DNS server to avoid any loss of connectivity or service.</p>	<p>Yes, using the CLI commands</p> <p>CLI > set network dns</p> <p>CLI > set network domain</p>

Configuration Setting	Description	Can Setting Be Changed After Installation?
<p>Administrator Account Credentials:</p> <p>Login: _____</p> <p>Password: _____</p>	<p>Sets the administrator credentials for secure shell access to the CLI and for logging into Cisco Unified Communications Operating System and Disaster Recovery System.</p> <p>The administrator account should be shared only with installers and engineers who have a thorough understanding and are responsible for platform administration and upgrades, and backup and restore operations.</p> <p>Note Ensure the password is at least six characters long; it can contain alphanumeric characters, hyphens, and underscore.</p>	<p>Login: No.</p> <p>Password: yes, using the CLI command</p> <p>CLI > set password user admin</p> <p>Note You can create additional administrator accounts during installation.</p>
<p>Certificate Information:</p> <p>Organization: _____</p> <p>Unit: _____</p> <p>Location: _____</p> <p>State: _____</p> <p>Country: _____</p>	<p>Sets information used by the server to generate certificate signing requests (CSRs) that are used to obtain third-party certificates.</p> <p>Tip To enter more than one business unit name, separate the entries with a comma. For entries that already contain a comma, enter a backslash before the comma that is included as part of the entry.</p> <p>For location, you can enter any setting that is meaningful within your organization. Examples include the state or the city where the server is located.</p>	<p>Yes, using the CLI command</p> <p>CLI > set web-security</p>
<p>Cluster:</p> <p>First server in cluster (Yes/No): ____</p> <p>If First server is No:</p> <p>Publisher hostname: _____</p> <p>Publisher IP address: _____</p> <p>Publisher security password: _____</p>	<p>First server refers to the publisher server. During the installation of second or subscriber server, enter the details of the first server.</p>	

Configuration Setting	Description	Can Setting Be Changed After Installation
<p>NTP Servers:</p> <p>NTP Server 1: _____</p> <p>NTP Server 2: _____</p> <p>NTP Server 3: _____</p> <p>NTP Server 4: _____</p> <p>NTP Server 5: _____</p>	<p>Sets the hostname or IP address of one or more network time protocol (NTP) servers that synchronizes with your Unity Connection server.</p> <p>The NTP service ensures that the time synchronized is accurate for date/timestamps of messages, reports, and various tools, such as logs and traces.</p> <p>All Unity Connection servers require an external NTP source that are accessible during installation. The source can be a corporate head-end router synchronized with a public NTP time server or it can be the public NTP time server itself.</p> <p>Note To avoid potential compatibility, accuracy, and network jitter problems, the external NTP servers should be NTP v4 (version 4). If you are using IPv6 addressing, external NTP servers must be NTP v6.</p> <p>The NTP server that you specify for the publisher server is automatically applied for the subscriber server.</p>	<p>Yes, using Cisco Unified Operating System Administration:</p> <p>Settings > NTP Servers</p> <p>Using the CLI command</p> <p>CLI > using the CLI command</p>
<p>Security Password</p>	<p>Sets the password used by a subscriber server to communicate with a publisher server.</p> <p>The security password is also used by the Disaster Recovery System to encrypt backups.</p> <p>The password must contain at least six alphanumeric characters. It can contain hyphens and underscores, but it must start with an alphanumeric character.</p>	<p>Yes, using the CLI command</p> <p>CLI > set password user security</p> <p>Caution If you are changing the password in a clustered environment, you must change the security password on both servers and reboot both. For more information, see the description of this command in the Command Line Interface Reference Guide for Cisco Unified Solutions.</p>

Configuration Setting	Description	Can Setting Be Changed After
SMTP Server	<p>Sets the hostname or IP address for the SMTP server that is used for outbound e-mail, intrasite links, Voice Profile for Internet Mail (VPIM), and HTTPS networking.</p> <p>The hostname can contain alphanumeric characters, hyphens, or periods but it must start with an alphanumeric character.</p> <p>Note You must specify an SMTP server if you plan to use electronic notification.</p>	<p>Yes, using the CLI command:</p> <p>CLI > set smtp</p>
<p>Application Account Credentials:</p> <p>Login: _____</p> <p>Password: _____</p>	<p>Sets the default credentials for the Unity Connection applications, including Cisco Unity Connection Administration and Cisco Unity Connection Serviceability.</p>	<p>Yes, using Cisco Unity Connection Administration and the CLI command:</p> <p>CLI > utils cuc reset password</p>

Installation Scenarios

Table 3: Installation Scenarios

Installation Scenarios	Installation Method
Standalone Deployment	<p>Standard</p> <ul style="list-style-type: none"> • Installing the Publisher Server • Verifying the Installation <p>Unattended</p> <ul style="list-style-type: none"> • Generating Answer File for Unattended Installation • Installing the Publisher Server • Verifying the Installation

Installation Scenarios	Installation Method
Cluster Deployment	<p>Standard</p> <ul style="list-style-type: none"> • Installing the Publisher Server • Configuring Subscriber Server on the Publisher Server • Installing the Subscriber Server • Verifying the Installation <p>Unattended</p> <ul style="list-style-type: none"> • Generating Answer File for Unattended Installation • Installing the Publisher Server • Configuring Subscriber Server on the Publisher Server • Installing the Subscriber Server • Verifying the Installation

Installation Tasks

Depending on the type of installation scenario, you need to perform the following tasks to install the Unity Connection software:

Navigating Within the Installation Wizard

For instructions on how to navigate within the installation wizard, see [Table 4: Installation Wizard Navigation](#).

Table 4: Installation Wizard Navigation

To Do This	Press This
Move to the next field	Tab
Move to the previous field	Alt-Tab
Select an option	Space bar or Enter
Scroll up or down in a list	Up or down arrow
Go to the previous window	Space bar or Enter to select Back (when available)
Get help information on a window	Space bar or Enter to select Help (when available)

Installing the Publisher Server

While installing a Unity Connection server, you are prompted to enter different configuration information. Refer the table mentioned in the [Gathering Information for Installation](#) section wherever applicable.

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- Step 1** Prepare the virtual machine to install Unity Connection:
- Select Edit virtual machine settings to select the ISO image from CD/DVD drive using client device or from data store.
 - Navigate to the Console tab. A screen prompting you to check the integrity of the DVD appears.
 - Select **Yes** to perform the media check or **Skip** to move to the next step.
- Note** If you select media check and it fails, either download another copy from Cisco.com or obtain another DVD directly from Cisco.
- After performing the hardware check, you get a prompt to restart the system. You need to select **Yes** to continue installation. After the system restarts, the Product Deployment Selection window displays.
- Step 2** In the Product Deployment Selection window, select **OK** to install Cisco Unity Connection. Then Proceed with Install window appears.
- Step 3** In the Proceed with Install window, select **Yes** to continue the installation.
- Caution** If you select **Yes** on the **Proceed with Install** window, all existing data on your hard drive gets overwritten and destroyed.
- The Platform Installation Wizard window appears.
- Step 4** In the Platform Installation Wizard window, select the applicable option:
- If you want to perform a standard installation, select **Proceed**, and continue with this procedure.
 - (Applicable to Unity Connection 14SU1 and later releases)* If you want to Import data from SFTP server during fresh install, select **Import** and continue.
 - If you want to perform an unattended installation, select **Skip**. Connect the answer file image on a virtual floppy diskette and select **Continue**. The installation wizard reads the configuration information during the installation process and then follow the steps mentioned in the [Post-Installation Tasks](#) section.
- Step 5**
- If you select **Proceed** in the previous window, the Apply Patch window appears:
 - Select Yes to upgrade to a later Service Release of the software during installation and follow the process mentioned in the [Applying a Patch](#) section.

Note This option is not applicable to Install with Data import installation method.
 - Select No to skip this step and the Basic Install window appears.
- If you select **Import** in the previous window, the Import Upgrade Configuration Information window appears. It explains the format of entering SFTP server and Export Directory. Select **OK**. The Timezone Configuration window appears. Continue with **Step-7**.
- Step 6** In the Basic Install window, select **Continue** to install the software version or configure the pre- installed software. The Timezone Configuration window appears.
- Step 7** In the Timezone Configuration window, select the appropriate time zone for the server and then select **OK**. The Auto Negotiation Configuration window appears.
- Caution** In a cluster, the subscriber server must be configured to use the same time zone as the publisher server. The replication do not work if the timezone is not same.

Step 8 In the Auto Negotiation Configuration window, select **Continue**. The MTU Configuration window appears.

Step 9 In the MTU Configuration window, select the applicable option:

- Select **No** to accept the default value (1500 bytes).
- Select **Yes** to change the MTU size, enter the new MTU size, and select **OK**.

Caution If you configure the MTU size incorrectly, your network performance can be affected.

The DHCP Configuration window appears.

Step 10 In the DHCP Configuration window, select the applicable option:

- Select **Yes** to use DHCP server that is configured in your network. The network restarts and the Administrator Login Configuration window appears.
- Select **No** to configure a static IP address for the server and continue with this procedure. The Static Network Configuration window appears.

Step 11 In the Static Network Configuration window, enter the static network configuration information.

The DNS Client Configuration window displays.

Step 12 To enable DNS, select **Yes**, enter the DNS client information and select **OK**.

The network restarts using the new configuration information.

Step 13 a) If **Import** option is selected in **Step-4** then Software Location of Data to import window will display. In this window, enter the following information.

Field	Description
Remote Server Name or IP	The Secure FTP (SFTP) server that will store the source cluster's exported data.
Export Data Directory	Directory path on the server containing export data.
Remote Server Login ID	Allow for data retrieval of the remote SFTP server.
Remote Server Password	Contains alphanumeric characters, hyphens, and underscores

The Certificate Information window appears.

b) If **Import** option is not selected in **Step-4** then enter the administrator login and password. The Certificate Information window appears.

Step 14 Enter your certificate signing request information and select **OK**.

The First Node Configuration window displays.

Step 15 In the First Node Configuration window, select the applicable option:

- Select **Yes** to configure this server as the publisher server or as a standalone server and continue this procedure. The Network Time Protocol Client Configuration window appears.
- Select **No** to configure this server as the subscriber server.

- Step 16** In the Network Time Protocol Client Configuration window, enter the hostname or IP address of the NTP server(s) and select Proceed.
- Note** Cisco recommends that you use an external NTP server to ensure accurate system time on the publisher server. However, you can configure multiple NTP servers based on your requirements.
- Step 17** a) If **Import** option is not selected in **Step-4** then Security Configuration window appears. In the Security Configuration window, enter the security password.
- Note** The system uses this password to authorize communications between the publisher and subscriber servers; you must ensure this password is identical on the two servers.
- The SMTP Host Configuration window appears.
- b) If **Import** option is selected in **Step-4** then SMTP Host Configuration window appears after selecting Proceed on the Network Time Protocol Client Configuration window.
- Step 18** In the SMTP Host Configuration window:
- a) Select **Yes** to configure an SMTP server and enter the SMTP server name or IP address.
- b) Select **OK**. The Application User Configuration window appears.
- Note** You must configure an SMTP server to use certain platform features; however, you can also configure an SMTP server later using the platform GUI or the command line interface.
- If **Import** option is selected in **Step-4**, then Platform Configuration Confirmation window appears after selecting OK on the SMTP Host Configuration window. Continue with **Step-20**.
- Step 19** In the Application User Configuration window:
- a) Enter the Application User name and password and confirm the password by entering it again.
- Note** Do not use the system application name as the Application User name. Using a system application name causes the installation to fail with an unrecoverable error during the installation of the database. The system application names are operator, replication, undeliverablemessagesmailbox, and Unity Connection.
- b) Select **OK**. The Platform Configuration Confirmation window appears.
- Step 20** In the Platform Configuration Confirmation window, select **OK** to continue the installation. The system installs and configures the software.
- Step 21** When the installation process completes, you are prompted to log in using the Administrator account and password.
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Configuring Subscriber Server on the Publisher Server

- Step 1** Sign in to Cisco Unity Connection Administration.
- Step 2** Expand System Settings and select Cluster.
- Step 3** On the Find and List Servers page, select Add New.
- Step 4** On the New Server Configuration page, in the Hostname or IP Address field, enter the hostname or IP address of the second server in the cluster.
- Step 5** (*Optional*) In the MAC Address field, enter the MAC address of the second server.

Step 6 In the Description field, enter a description for the second server and select **Save**.

Note Above mentioned steps are applicable to:

- Unity Connection 14 release.
- If **Import** option is not selected, while installation for Unity Connection 14SU1 and later releases.
- If **Import** option is selected only for publisher node, while installing Unity Connection 14SU1 and later releases. This is the case network migration in which data is exported and imported on publisher node only and subscriber node is freshly installed.

Installing the Subscriber Server



Note In case of **Install with Data Import** installation method, you can fresh install the subscriber node or you can import the subscriber node using Import option.

For importing the subscriber node, select the Import option in Platform Installation Wizard window and follow the steps of importing publisher server until the First Node Configuration window appears. Then continue the following procedure.

To fresh install the subscriber server, follow the steps of installing publisher server until the First Node Configuration window appears and then continue the following procedure.

While installing a Unity Connection server, you are prompted to enter different configuration information. Refer the table mentioned in the [Gathering Information for Installation](#) section wherever applicable.

Step 1 In the Console tab, on the First Node Configuration window, select No to continue the installation of the subscriber server and select **OK**.

The **Network Connectivity Test Configuration** window displays.

Step 2 During installation of a subscriber server, the system checks to ensure that the subscriber server can connect to the publisher server.

- To pause the installation after the system successfully verifies network connectivity, select **Yes**.
- To continue the installation, select **No**.

The **First Node Access Configuration** window displays.

Step 3 Enter the connectivity information for the publisher server and select **OK**.

The system checks for network connectivity.

If you select to pause the system after the system successfully verifies network connectivity, the Successful Cisco Unity Connection to First Node window displays. Select **Continue**.

Note If the network connectivity test fails, the system stops and allows you to go back and re-enter the parameter information.

The **SMTP Host Configuration** window displays.

Step 4 If you want to configure an SMTP server, select **Yes** and enter the SMTP server name.

The **Platform Configuration Confirmation** window displays.

Step 5 Select **OK** to start installing the software.

Step 6 When the installation process completes, you are prompted to log in using the Administrator account and password.

Note After installing publisher and subscriber nodes, complete the post-installation tasks that are listed in the [Post-Installation Tasks, on page 25](#). In case of Install with Data Import option, complete the post-migration tasks listed in the [Post-Migration Tasks](#) section.

Generating Answer File for Unattended Installation

You can generate answer files using Cisco Unified Communications Answer File Generator web application. To use the answer file during installation, you need to save the answer file to the root directory of a floppy diskette, browse to the file during installation, and leave the installation to complete.

In case of Unity Connection cluster:

- You need to generate separate answer files for publisher and subscriber servers.
- You are not required to enter details of the publisher server manually on the subscriber server during subscriber server installation.



Note The Cisco Unified Communications Answer File Generator supports Internet Explorer version 11.0 or higher and Mozilla version 28.0 or higher.

Task List for Unattended Installation

You need to perform the following tasks to generate answer file and create floppy image for unattended installation.

1. Generate and download answer files that includes the platformConfig.xml files for both the publisher and the subscriber server. For more information on how to generate answer files, see [Generating and Downloading Answer File](#).
2. After generating the answer files, create a floppy image. For more information, see http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1739.
3. Deploy and configure the servers in the cluster, publisher and subscriber. For more information, see the [Configuring the Publisher Server](#) and [Configuring the Subscriber Server](#) section.
4. To install the publisher and subscriber server, see the [Installing the Publisher Server](#) and [Installing the Subscriber Server](#) section.

Generating and Downloading Answer File

- Step 1** Log in to the Unity Connection Answer File Generator application. The answer file can be generated using the following link: http://www.cisco.com/web/cuc_afg/index.html.
- Step 2** Enter details in the Clusterwide Configuration section.
- Note** *(Applicable to Unity Connection 14SU1 and later releases)* You can select option **Configure Software Location of Data to Import** for using **Install with Data Import** installation method. Enter details of Remote Server and Export Data Directory.
- Step 3** Enter details for the primary node in the Primary Node Configuration section.
- Step 4** (Optional) If you want to enable Dynamic Cluster Configuration, enter a value in the Dynamic-cluster-config-timer field.
- Note** **Step 4** is mandatory when you are using Dynamic-cluster-configuration process for Touchless installation.
- Step 5** Enter details for the secondary node in the Secondary Node Configuration section.
- Step 6** In the List of Secondary Nodes list box, select Add Secondary Node. The node that you add as secondary node appears in this list box.
- Step 7** Click Generate Answer Files. A dialog box appears showing the details for the primary node, the secondary node, and the clusterConfig file.
- Step 8** In the Communications Answer File Generator dialog box, follow the download instructions, and then click the Download File button to download the answer files to your computer.
-

Configuring the Publisher Server

- Step 1** Log in to the virtual machine to start the cluster installation.
- Step 2** From the VM menu, select Edit settings to mount the floppy image that you have created from the Answer File Generator tool. The Virtual Machine Properties dialog box appears.
- Step 3** From the available hardware list, select Floppy drive 1.
- Step 4** In the Device Type section, select Use the existing floppy image in the database, and then click Browse to navigate to the floppy image.
- Step 5** Click OK. The floppy image is attached.
- Step 6** Select the CD/DVD Drive 1 > Connect to ISO image on local disk option from the toolbar and select CD/DVD Drive1 > Connect to ISO image on a datastore, navigate to the data store to select the ISO image, and click OK. The ISO image is attached and the installation starts.
- Step 7** (Optional) If you want to test the media before the installation, click OK in the Disc Found message box, or select Skip to skip testing the media before the installation. The installation proceeds without any manual intervention. The publisher is installed and the subscribers is added to the publisher.
-

Configuring the Subscriber Server

- Step 1** You can install the subscriber only after the publisher is installed.(Applicable to only unattended installation, not valid for Touchless install).

Step 2 Perform Step 1 to Step 6 of the [Configuring the Publisher Server](#).

Touchless Installation for Virtual Machine

Touchless installation is an enhancement of the existing unattended installation, which promotes simplified cluster installation. In unattended installation, you first install Unity Connection on the publisher server using answer file, add the subscriber server to the Cluster page of the publisher server, and then start the installation of subscriber server. However, in Touchless installation, you are not required to manually enter the details of the subscriber server on the publisher server. The subscriber details are automatically updated through clusterConfig.xml file or dynamic-cluster-configuration option in the AFG tool, which minimizes the need for intervention and scheduling during the deployment of a new cluster.

Methods for Touchless Installation

You can use either of the following two methods for Touchless installation:

- Predefined Cluster Configurations (AFG Process)
- Automatic Sequencing of Touchless server (Subscriber-Dynamic-Cluster configuration).
Predefined Cluster Configurations (AFG Process)

In this method of installation, the Answer File Generator (AFG) tool generates the clusterConfig.xml file along with the existing platformConfig.xml file for both the publisher and subscriber servers. If you specify the details of the subscriber server in the AFG tool, those details are included in the clusterConfig.xml file. After the publisher server is installed, it reads the clusterConfig.xml file and if the publisher server finds the subscriber server, it adds the subscriber server to its processnode table. Adding the subscriber server to the processnode table eliminates the need to wait for the publisher server to finish its installation, and then manually add the subscriber server on the server page. Thus, the entire installation process occurs automatically.

Automatic Sequencing of Touchless Server (dynamic-cluster-configuration)

In automatic sequencing feature, subscriber gets configured dynamically along with the publisher during the installation. To use this functionality, enable the dynamic-cluster-configuration option in the AFG tool or use the command line interface (CLI) command on the publisher server. To use CLI to enable dynamic-configuration functionality, see [\(Optional\) Enabling Dynamic-Cluster-Configuration Using CLI](#). There is no clusterconfig.xml file in this process of Touchless install. You need to enable the Dynamic Cluster Config Timer (1-24 hours) and start the installation on both the servers at the same time. The number of hours is the duration for which subscriber waits for publisher to receive the subscriber entry in the processnode table.

Task List for Touchless Installation

You need to perform the following tasks to generate answer files and create floppy image for Touchless installation.

1. Generate and download answer files that includes the platformConfig.xml files for both the publisher and the subscriber server and clusterconfig.xml file (only for AFG Process). For more information on how to generate answer files, see [Generating and Downloading Answer File](#).



Note In case you are using dynamic-cluster-configuration method of installation, then you just need to enable dynamic-cluster-configuration option in the AFG tool and follow the step1.

2. After generating the answer files, create a floppy image. For more information, see http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1739.
3. Deploy and configure the servers in the cluster, publisher and subscriber. For more information, see the [Configuring the Publisher Server](#) and [Configuring the Subscriber Server](#) section.
4. To install the publisher server, see the [Installing the Publisher Server](#) section for cluster deployment.
5. The installation of subscriber continues if:
 - You enable the dynamic-cluster-configuration timer.
 - The clusterConfig.xml files are present.

(Optional)

(Optional) Enabling Dynamic-Cluster-Configuration Using CLI

Procedure

	Command or Action	Purpose
Step 1	You can enable Dynamic-Cluster-Configuration through the CLI for up to an hour using the command: set network cluster subscriber dynamic-cluster-config {default no. of hours}. For more information, see the "Set Command" chapter of <i>Command Line Interface Guide for Cisco Unified Communications Solutions</i> available at http://www.cisco.com/c/en/us/products/voice/communications-management-center/related-guides.html	
Step 2	Add the new cluster subscriber through the CLI in the following format: set network cluster subscriber details <servertype> <hostname> <ip> <domainname>.	
Step 3	You can use show network cluster CLI to check the entries in the processnode table. For more information, see "Show Command" chapter of <i>Command Line Interface Guide for Cisco Unified Communications Solutions</i> available at http://www.cisco.com/c/en/us/products/voice/communications-management-center/related-guides.html	

Applying a Patch

You must obtain the appropriate upgrade file from Cisco.com before you can upgrade during installation. To apply a patch, select **Yes** in the Apply a Patch window that appears during the installation of publisher or subscriber server. The installation wizard installs the software version on the DVD first and then restarts the system.



Note You can upgrade to any supported higher release if you have a full patch of the release not an Engineering Special (ES).

You can access the upgrade file during the installation process either from a local disk (DVD) or from a remote FTP or SFTP server.

Step 1 If you select **Yes** in the Apply a Patch window, the Install Upgrade Retrieval Mechanism Configuration window appears.

Step 2 Select the upgrade retrieval mechanism to use to retrieve the upgrade file:

-
- **SFTP**—Retrieves the upgrade file from a remote server using the Secure File Transfer Protocol (SFTP). Skip to the [Upgrading from a Remote Server](#).
 - **FTP**—Retrieves the upgrade file from a remote server using File Transfer Protocol (FTP). Skip to the [Upgrading from a Remote Server](#).
 - **LOCAL**—Retrieves the upgrade file from a local DVD. Continue with the [Upgrading from a Local Disk](#).

Upgrading from a Remote Server

Cisco allows you to use any SFTP server product but recommends SFTP products that have been certified with Cisco through the Cisco Technology Developer Partner program (CTDP). CTDP partners, such as GlobalSCAPE, certify their products with specified version of Cisco Unified Communications Manager. For information on using GlobalSCAPE with supported Cisco Unified Communications versions, refer to <https://www.globalscape.com/managed-file-transfer/cisco>. Cisco uses the following servers for internal testing. You may use one of these servers, but you must contact the vendor for support:

- Open SSH (for Unix systems. Refer to <http://sshwindows.sourceforge.net/>)
- Cygwin (<http://www.cygwin.com/>)
- Titan (<http://www.titanftp.com/>)



Note For issues with third-party products that have not been certified through the CTDP process, contact the third-party vendor for support.

If you select to upgrade through an FTP or SFTP connection to a remote server, you must first configure network settings so that the server can connect to the network.

Step 1 The **Auto Negotiation Configuration** window displays.

Step 2 The installation process allows you to automatically set the speed and duplex settings of the Ethernet network interface card (NIC) using automatic negotiation. You can change this setting after installation.

Note To use this option, your hub or Ethernet switch must support automatic negotiation.

- To enable automatic negotiation, select **Yes**.
The MTU Configuration window displays. Continue with [Step 4](#).
- To disable automatic negotiation, select **No**. The NIC Speed and Duplex Configuration window displays. Continue with [Step 3](#).

Step 3 If you select to disable automatic negotiation, manually select the appropriate NIC speed and duplex settings now and select **OK** to continue.

The MTU Configuration window displays.

Step 4 In the MTU Configuration window, you can change the MTU size from the operating system default.

The maximum transmission unit (MTU) represents the largest packet, in bytes, that is transmitted by this host on the network. If you are unsure of the MTU setting for your network, use the default value.

Caution If you configure the MTU size incorrectly, your network performance can be affected.

- To accept the default value (1500 bytes), select **No**.
- To change the MTU size from the operating system default, select **Yes**, enter the new MTU size, and select **OK**.

The DHCP Configuration window displays.

Step 5 For network configuration, you can select to either set up static network IP addresses for the Unity Connection server and gateway or to use Dynamic Host Configuration Protocol (DHCP). Static IP addresses are recommended.

- If you have a DHCP server that is configured in your network and want to use DHCP, select **Yes**. The installation process attempts to verify network connectivity.
- If you want to configure static IP addresses for the server, select **No**. The Static Network Configuration window displays.

Step 6 If you select not to use DHCP, enter your static network configuration values and select **OK**.

The DNS Client Configuration window displays.

Step 7 To enable DNS, select **Yes**, enter the DNS client information and select **OK**.

After the system configures the network and checks for connectivity, the Remote Patch Configuration window displays.

Step 8 Enter the location and login information for the remote file server. The system connects to the remote server and retrieves a list of available upgrade patches.

If the upgrade file is located on a Linux or Unix server, you must enter a forward slash at the beginning of the directory path. For example, if the upgrade file is in the patches directory, you must enter `/patches`

If the upgrade file is located on a Windows server, remember that you are connecting to an FTP or SFTP server, so use the appropriate syntax, including:

- Begin the path with a forward slash (/) and use forward slashes throughout the path.
- The path must start from the FTP or SFTP root directory on the server, so you cannot enter a Windows absolute path that starts with a drive letter (for example, C:).

The Install Upgrade Patch Selection window displays.

Step 9 Select the upgrade patch to install. The system downloads, unpacks, and installs the patch and then restarts the system with the upgraded software version running.

After the system restarts, the Pre-existing Configuration Information window displays.

Step 10 To continue the installation, select **Proceed**.

The Platform Installation Wizard window displays.

- Step 11** To continue the installation, select **Proceed** or select **Cancel** to stop the installation.
If you select **Proceed**, the Apply Patch window displays. Continue with [Step 12](#).
If you select **Cancel**, the system halts, and you can safely power down the server.
- Step 12** When the Apply Patch window displays, select **No**, the “Basic Install” window appears.
- Step 13** Select **Continue** in the window to install the software version on the DVD or configure the pre- installed software and move to [Step 7](#) of the [Installing the Publisher Server](#) section.
-

Upgrading from a Local Disk

Before you can upgrade from a local disk, you must download the appropriate patch file from Cisco.com and use it to create an upgrade DVD. You must create an ISO image on the DVD from the upgrade file. Just copying the ISO file to a DVD does not work.

- Step 1** When the Local Patch Configuration window displays, enter the patch directory and patch name, if required, and select **OK**.
The Install Upgrade Patch Selection Validation window displays.
- Step 2** The window displays the patch file that is available on the DVD. To update the system with this patch, select **Continue**.
- Step 3** Select the upgrade patch to install. The system installs the patch, then restarts the system with the upgraded software version running.
After the system restarts, the Preexisting Configuration Information window displays.
- Step 4** To continue the installation, select **Proceed**.
The Platform Installation Wizard window displays.
- Step 5** To continue the installation, select **Proceed** or select **Cancel** to stop the installation.
If you select **Proceed**, the Apply Patch window displays. Continue with [Upgrading from a Local Disk](#).
If you select **Cancel**, the system halts, and you can safely power down the server.
- Step 6** When the Apply Patch window displays, select **No**, the “Basic Install” window appears.
- Step 7** Select **Continue** in the window to install the software version on the DVD or configure the pre- installed software and move to [Upgrading from a Local Disk](#) of the [Installing the Publisher Server](#) section.
-

Verifying the Installation

After the installation application has finished, the new server displays its hostname and the administration account login prompt.

- Step 1** Log in with the administration account user name and password.
The server opens a command line interface.

Step 2 Verify that server network services are running:

- a) At the CLI prompt, enter the command **utils service list**.

It might take a few minutes for all services to start completely. During this time, you might notice that services might be listed as [Starting].

- b) Repeat the **utils service list** command until all network services are listed as [Started].

In particular, the Cisco Tomcat service must be started before you can proceed to the next verification step.

Step 3 Verify the server details:

- a) Open a web browser on a personal computer that has network access to the server. Unity Connection supports different web browsers, such as Microsoft Internet Explorer and Mozilla Firefox.
- b) In the web browser, enter the URL “https://<publisher_ip_address>/cmplatform”.
- c) Login to Cisco Unified OS Administration using the *administrator* user name and password specified during the installation.
- d) Select **Show > System** from the toolbar to display the system status page, showing the current date, uptime, software level, along with the CPU and memory usage.
- e) Use the **Show** menu to check:

- **Cluster:** displays the IP address, hostname, alias, server type, and database replication status of the single server or both the server in case of cluster.
- **Hardware:** platform type, serial number, hardware, and other options
- **Network:** current network interface configuration, status, and packets
- **Software:** current active and inactive software partitions

Step 4 Verify the server status:

- a) In the web browser, enter the URL “https://<publisher_ip_address>/cuadmin”.
- b) The Cisco Unity Connection Administration window opens. Select Cisco Unity Connection Serviceability from the navigation pane. Login using the *application* user name and password specified during the installation.
- c) Select Tools > Cluster Management. It lists the server status of either single server or both the servers in case of cluster. For a standalone server deployment, the server shows Primary status whereas in case of cluster, one of the server shows Primary status and the other shows Secondary status.

Cisco Unity Connection Survivable Remote Site Voicemail Installation

You install a Cisco Unity Connection Survivable Remote Site Voicemail (SRSV) server by converting a standalone Unity Connection server with the CLI command

utils cuc activate CUSRSV



Warning After installing Unity Connection SRSV, you can not revert to a standalone Unity Connection server.

**Caution**

All the existing Unity Connection configurations are lost after running the conversion.

**Note**

The unrestricted version of Unity Connection SRSV works only with the unrestricted version of Unity Connection (central) server.

Post-Installation Tasks

After installing Unity Connection on your server, you should perform the following additional tasks before configuring the system for your application:

- Obtain the licenses for the Unity Connection server. For this, you must register the product with Cisco Smart Software Manager (CSSM) or Cisco Smart Software Manager satellite.

For more information, see the [Managing Licenses](#) chapter.

- (Optional) Change the application passwords.

You can change the passwords using either the Cisco Unity Connection Administration web application, or you can log into the server and run the CLI command

utils cuc reset password

- If you require additional languages, install them.

For details, see the [Adding or Removing Unity Connection Languages](#) section.

- Install the Cisco Unified Real-Time Monitoring Tool.

You can use Cisco Unified Real-Time Monitoring Tool to monitor system health, and view and collect logs. For more information on RTMT, see the Cisco Unified Real-Time Monitoring Tool Administration Guide Release 10.x at

<http://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/products-maintenance-guides-list.html>

(Optional): You can configure RTMT to send alert notifications through emails to the specified email address. For more information on enabling email alert, see the [Enable email alerts](#) section of the Cisco Unified Real-Time Monitoring Tool Administration Guide.

- Activate Unity Connection feature services.

For service activation requirements, see the *Cisco Unified Serviceability Administration Guide Release 11.x* at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/11x/serv_administration/b_11xcucservag.html.

- Configure the backup settings. For more information, see the [Backing Up and Restoring Cisco Unity Connection Components](#) chapter.

Post-Migration Tasks

Network Migration

After successful **Install with Data Import** in case of **Network Migration**, perform some additional steps as described below:

1. Obtain the Licenses for the new Unity Connection server. For configuration of licenses, see the [Managing Licenses](#) chapter.



Note Make sure to de-register the node from which export is performed to free the license consumption and then proceed for registration of new imported node.

2. If Unity Connection on source release has IPsec configured using a certificate-based authentication, then you must reconfigure the IPsec policy with a CA-signed certificate after successful installation on new Unity Connection Server. For more information, see the section [Upgrade Considerations with FIPS Mode](#).
3. If there is any change in certificates on new Unity connection server then regenerate and upload certificates on appropriate paths on new Unity Connection server. Some examples are given below:
 - If Unity Connection on source release has Secure SIP call configured using SIP Integration then after successful installation, generate and upload RSA based Tomcat certificates on new Unity Connection server. To learn how to regenerate certificates, see section [Settings for RSA Key Based certificates](#) of *Cisco Unified Communications Manager SIP Integration Guide for Cisco Unity Connection Release 14* available at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/14/integration/cucm_sip/b_14cucintucmsip.html.
 - If Unity Connection on source release uses tomcat-ECDSA certificates (self signed and third party) for next generation security then after successful installation generate and upload tomcat-ECDSA certificates on new Unity Connection server. To learn how to regenerate certificates, see section [Settings for EC Key Based certificates](#) of *Cisco Unified Communications Manager SIP Integration Guide for Cisco Unity Connection Release 14* available at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/14/integration/cucm_sip/b_14cucintucmsip.html.
4. For proper functioning of SAML SSO perform below steps:
 - Update the Metadata files of new Unity Connection server for SAML on IdP.
 - Update IdP Metadata file on new Unity Connection server.

For more information, see *Quick Start Guide for SAML SSO Access* available at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/14/quick_start/guide/b_14cucqssamlssom_samlssochapter.html.

5. Update the new Unity Connection server's FQDN and IP in required telephony configurations on **Cisco Unified Communications Manager** side. For more information, see *System Configuration Guide for Cisco Unified Communications Manager* available at <https://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/products-installation-and-configuration-guides-list.html>
6. You must reinstall the set of required locales that are compatible with the new Unity Connection version.
7. Changes done by COP files installed on previous releases does not carry forward with migration and therefore COP files installed on previous release needs to be installed again. After successful migration you must manually install that COP file on new Unity Connection server.

8. If you want to change Unity Connection SMTP Domain Name, follow steps mentioned in <https://www.cisco.com/c/en/us/support/docs/unified-communications/unity-connection/117237-technote-uc-00.html>.

Simple Migration

After successful Simple Migration perform below additional steps:

1. Obtain the Licenses for the new Unity Connection server. For configuration of licenses, see the [Managing Licenses](#) chapter.



Note Make sure to de-register the node from which export is performed to free the license consumption and then proceed for registration of new imported node.

2. For successful working of IPsec, restart IPsec service on both the nodes of new Unity Connection server using below CLI:

```
utils ipsec restart
```
3. Changes done by COP files installed on previous releases does not carry forward with migration and therefore COP files installed on previous release needs to be installed again. After successful migration you must manually install that COP file on new Unity Connection server.
4. You must reinstall the set of required locales that are compatible with the new Unity Connection version.

Troubleshooting Installation Issues

Follow the steps in this section to troubleshoot issues faced during installation.

- Examine the log files if you encounter problems during installation. Use the following commands in Command Line Interface to view log files.

To obtain a list of install log files from the command line, enter

```
CLI>file list install *
```

To view the log file from the command line, enter

```
CLI>file view install log_file
```

where *log_file* is the log file name.

You can also view logs using the Cisco Unified Real-Time Monitoring Tool.

You can dump the install logs to the serial port of a virtual machine using the "Dumping Install Logs" procedure mentioned at

http://docwiki.cisco.com/wiki/How_to_Dump_Install_Logs_to_the_Serial_Port_of_the_Virtual_Machine.

For more information on troubleshooting installation issues, see the *Troubleshooting Guide for Cisco Unity Connection Release 11.x* available at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/11x/troubleshooting/guide/b_11xcuctsg.html.

