CHAPTER 3

Cisco Unified CallManager Configuration

Use Cisco Unified CallManager configuration to specify the ports and other properties for each Cisco Unified CallManager that is installed in the same cluster. A cluster comprises a set of Cisco Unified CallManagers that enables redundancy.

For the first node in a Cisco Unified CallManager cluster, the server gets automatically added as part of the installation. To add additional Cisco Unified CallManagers to a cluster, the administrator must configure a server (by using Server Configuration) and then add the Cisco Unified CallManager (by using Cisco Unified CallManager Configuration). This procedure is repeated for each Cisco Unified CallManager that is in the cluster.

Use the following topics to find and update a Cisco Unified CallManager configuration or to view system component version information:

Finding a Cisco Unified CallManager

Because you may have several Cisco Unified CallManagers in your network, Cisco Unified CallManager Administration lets you locate specific Cisco Unified CallManagers on the basis of specific criteria. Use the following procedure to locate Cisco Unified CallManagers.

Note During your work in a browser session, your find/list search preferences are stored in the cookies on the client machine. If you navigate to other menu items and return to this menu item, or if you close the browser and then reopen a new browser window, the system retains your Cisco Unified CallManager search preferences until you modify your search.

Procedure

Step 1 Choose **System** > Cisco Unified CallManager.

The Find and List Cisco Unified CallManagers window displays. Use the two drop-down list boxes to search for a Cisco Unified CallManager.

Step 2 From the first Find Cisco Unified CallManagers window drop-down list box, choose one of the following criteria:

- Name
- Description

From the second Find Cisco Unified CallManagers window drop-down list box, choose one of the following criteria:

- begins with
- contains
- is exactly
- ends with
- is empty
- is not empty

Step 3 Specify the appropriate search text, if applicable, and click **Find**.

Tip To find all Cisco Unified CallManagers that are registered in the database, click **Find** without entering any search text.

A list of discovered Cisco Unified CallManagers displays by

- Cisco Unified CallManager name
- Description

From the Find and List Cisco Unified CallManagers window, you can also specify how many rows per page to display.

Step 4 From the list of records, click the Cisco Unified CallManager name that matches your search criteria.

The window displays the Cisco Unified CallManager that you chose.

Additional Information

See the "Related Topics" section on page 3-7.

Updating a Cisco Unified CallManager

This section describes how to update a Cisco Unified CallManager.

Procedure

Step 1 Choose **System** > Cisco Unified CallManager.

The Find and List Cisco Unified CallManagers window displays.

Step 2 To update a Cisco Unified CallManager, locate the appropriate Cisco Unified CallManager as described in Finding a Cisco Unified CallManager, page 3-1. Click the Cisco Unified CallManager that you want to update and continue with Step 3.

Step 3 Enter the appropriate settings as described in Table 3-1.

Step 4 Click **Save**.

Additional Information

See the "Related Topics" section on page 3-7.

Cisco Unified CallManager Configuration Settings

Table 3-1 describes the Cisco Unified CallManager configuration settings. For related procedures, see the "Related Topics" section on page 3-7.

Table 3-1 Cisco Unified CallManager Configuration Settings

Field	Description
Server Information	
Cisco Unified CallManager Server	This read-only field displays the server where this Cisco Unified CallManager is installed.
Cisco Unified CallManager Name	Enter the name that you want to assign to this Cisco Unified CallManager.
Description	Enter a description of the Cisco Unified CallManager.
Auto-registration Information	
Starting Directory Number	Enter the first directory number to use for autoregistration of devices.
Ending Directory Number	Enter the last directory number to use for autoregistration of devices. **Note** Specifying a valid range of directory numbers in the Starting Directory Number and Ending Directory Number fields automatically enables autoregistration. Setting the starting and ending directory numbers to the same value disables autoregistration.

Table 3-1 Cisco Unified CallManager Configuration Settings (continued)

Field	Description
Partition	If you are not using partitions, choose <None>. If you are using partitions, choose the partition to which autoregistered directory numbers belong from the drop-down list box. **Tip** You must choose a range for autoregistration before you can choose a partition, external phone number mask or voice messaging box mask. If more than 250 partitions exist, the ellipsis (**...**) button displays next to the drop-down list box. 1. To display the Select Partition window, click the (**...**) button. 2. In the **List items where Name contains** field, enter a partial partition name. 3. In the list of partitions that displays in the **Select item to use** box, click the desired partition name. 4. Click **OK**.
External Phone Number Mask	Specify the mask that is used to format caller ID information for external (outbound) calls that are made from the autoregistered devices. • The mask can contain up to 50 characters. • Enter the literal digits that you want to appear in the caller ID information and use Xs to represent the directory number of the autoregistered device. See the following examples: • If you specify a mask of 972813XXXX, an external call from extension 1234 displays a caller ID number of 9728131234 if the Use External Phone Number Mask option is checked on the route pattern that is used to make the external call. • If you specify a mask of all literal digits, such as 9728135000 to represent a main attendant number, that literal number (9728135000) displays as the caller ID for an external call from any autoregistered device.

Table 3-1 Cisco Unified CallManager Configuration Settings (continued)

Field	Description

Auto-registration Disabled on this Cisco Unified CallManager	Cisco Unified CallManager disables the autoregistration by default to prevent unauthorized connections to the network. You can choose to enable or disable autoregistration by one of the following options:
	• To enable autoregistration for this Cisco Unified CallManager, uncheck the Auto-registration Disabled check box.
	• To disable autoregistration for this Cisco Unified CallManager, check the Auto-registration Disabled check box.
	  • When autoregistration is disabled, you must configure the directory numbers manually whenever you add new devices to your network.
	  • Setting the Starting Directory Number and Ending Directory Number to the same value also disables autoregistration.
	  • If starting and ending directory numbers are currently specified when you disable autoregistration by checking this option, Cisco Unified CallManager sets the starting and ending directory numbers to the same value.
	Cisco Unified CallManager resets the partition and external phone mask information when autoregistration is disabled.

Cisco Unified CallManager TCP Port Settings for This Server	
Ethernet Phone Port	Cisco Unified CallManager uses this TCP port to communicate with the Cisco Unified IP Phones (SCCP only) on the network. • Accept the default port value of 2000 unless this port is already in use on your system. Choosing 2000 identifies this port as non-secure. • Ensure all port entries are unique. • Valid port numbers range from 1024 to 49151. • Refer to the *Cisco Unified CallManager Security Guide* for information about security configurations.
MGCP Listen Port	Cisco Unified CallManager uses this TCP port to detect messages from its associated MGCP gateway. • Accept the default port of 2427 unless this port is already in use on your system. • Ensure all port entries are unique. • Valid port numbers range from 1024 to 49151.
MGCP Keep-alive Port	Cisco Unified CallManager uses this TCP port to exchange keepalive messages with its associated MGCP gateway. • Accept the default port of 2428 unless this port is already in use on your system. • Ensure all port entries are unique. • Valid port numbers range from 1024 to 49151.

Table 3-1 Cisco Unified CallManager Configuration Settings (continued)

Field	Description
SIP Phone Port	This field specifies the port number that Cisco Unified CallManager uses to listen for SIP line registrations over TCP and UDP.
SIP Phone Secure Port	This field specifies the port number that Cisco Unified CallManager uses to listen for SIP line registrations over TLS. Refer to the *Cisco Unified CallManager Security Guide* for information about security configurations.

Cisco CallManager Service Activation/Deactivation

The following requirements apply to Cisco CallManager service activation and deactivation:

- Cisco CallManager Service Activation, page 3-6
- Cisco CallManager Service Deactivation, page 3-6

Additional Information

See the "Related Topics" section on page 3-7.

Cisco CallManager Service Activation

When you perform a new Cisco Unified CallManager installation, you must follow these steps in sequence:

1. Add the Server. Cisco Unified CallManagers automatically get added when a server gets configured.
2. Activate the Cisco CallManager service, as described in the *Cisco Unified CallManager Serviceability Administration Guide*.

A message displays if you do not follow this sequence.

Additional Information

See the "Related Topics" section on page 3-7.

Cisco CallManager Service Deactivation

You can deactivate the Cisco CallManager service in Cisco Unified CallManager Serviceability. When you deactivate the Cisco CallManager service, the Cisco Unified CallManager where you deactivated the service becomes inactive for use.

Note From Cisco Unified CallManager Serviceability, you can view the status of the Cisco Unified CallManager by accessing **Tools > Service Activation**.

When the Cisco CallManager service is deactivated, no one can make calls on that Cisco Unified CallManager.

You may still be able to perform configuration operations on a deactivated Cisco Unified CallManager if the Cisco CallManager Administration web service is active and the database is up and running.

When you reactivate the Cisco CallManager service on the Cisco Unified CallManager, the database automatically re-creates the Cisco Unified CallManager by retaining the original configuration (server name or IP address). This Cisco Unified CallManager then becomes active; you can verify that the Cisco CallManager service is running by accessing **Tools > Control Center - Feature Services** in Cisco Unified CallManager Serviceability.

For more information about Service Activation, refer to the *Cisco Unified CallManager Serviceability System Guide* and the *Cisco Unified CallManager Serviceability Administration Guide*.

Additional Information

See the "Related Topics" section on page 3-7.

Related Topics

- Finding a Cisco Unified CallManager, page 3-1
- Updating a Cisco Unified CallManager, page 3-2
- Cisco Unified CallManager Configuration Settings, page 3-3
- Cisco CallManager Service Activation/Deactivation, page 3-6
- Server Configuration, page 2-1
- *Cisco Unified CallManager Security Guide*