



CHAPTER 65

Gatekeeper Configuration

The following topics cover gatekeeper configuration in Cisco Unified Communications Manager Administration:

- [Gatekeeper Configuration Settings, page 65-1](#)
- [Synchronizing a Gatekeeper, page 65-3](#)
- [Related Topics, page 65-4](#)

Gatekeeper Configuration Settings

In Cisco Unified Communications Manager Administration, use the **Device > Gatekeeper** menu path to configure gatekeepers.

A gatekeeper device, also known as a Cisco Multimedia Conference Manager (MCM), supports the H.225 Registration, Admission, and Status Protocol (RAS) message set that is used for call admission control, bandwidth allocation, and dial pattern resolution (call routing). The gatekeeper provides these services for communications between Cisco Unified Communications Manager clusters and H.323 networks. You can configure multiple gatekeeper devices per Cisco Unified Communications Manager cluster. You can configure alternate gatekeepers for redundancy. See the Cisco Multimedia Conference Manager (MCM) documentation and the *Cisco Unified Communications Solution Reference Network Design (SRND)* for alternate gatekeeper configuration details.

Gatekeeper configuration comprises components:

- Cisco Unified Communications Manager configuration. Each Cisco Unified Communications Manager cluster can register with one or more gatekeepers. This chapter describes how to configure the gatekeeper in Cisco Unified Communications Manager. You also need to configure trunk devices on the Trunk Configuration window. See the [“Trunk Configuration” section on page 68-1](#).
- Gatekeeper configuration on the router. This type of configuration applies to a Cisco IOS Multimedia Conference Manager (MCM) that acts as the gatekeeper. Recommended platforms for the gatekeeper include Cisco 2600, 3600, or 7200 routers with Cisco IOS Release 12.1(3)T or higher. See the MCM documentation for information on configuring the gatekeeper. Alternate gatekeeper configuration occurs in the MCM only, so no configuration is necessary in Cisco Unified Communications Manager.



Note

You can configure multiple gatekeeper devices per Cisco Unified Communications Manager cluster.

Tips About Configuring Gatekeepers

You can configure multiple gatekeeper devices per Cisco Unified Communications Manager cluster.

Tips About Resetting Gatekeepers

For instructions on how to reset a gatekeeper, see the descriptions of the **Reset Selected** and **Reset** buttons in the “[Common Buttons and Icons](#)” section on page 1-18.

Resetting a gatekeeper does not mean that the physical device is reset; instead, resetting forces the Cisco Unified Communications Manager to reset the logical connection to the gatekeeper and to reregister with the gatekeeper. During this time of reregistering and until successful registration, new calls that are made by using this trunk, which uses this gatekeeper, fail.

When you reset a gatekeeper, the Cisco Unified Communications Manager cluster unregisters (URQ) and then reregisters (RRQ) with the gatekeeper.



Note

Resetting a gatekeeper does not cause all active calls that this gatekeeper controls to be dropped; however, new call attempts fail.

You may also want to consult the following topic:

- [Synchronizing a Gatekeeper, page 65-3](#)

Tips About Deleting Gatekeepers

You cannot delete a gatekeeper that is assigned to one or more trunks. To find out which trunks are using the gatekeeper, choose **Dependency Records** from the Related Links drop-down list box that is on the Gatekeeper Configuration window. If the dependency records are not enabled for the system, the dependency records summary window displays a message. For more information about dependency records, see the “[Accessing Dependency Records](#)” section on page A-2. If you try to delete a gatekeeper that is in use, Cisco Unified Communications Manager displays an error message. Before deleting a gatekeeper that is currently in use, you must perform either or both of the following tasks:

- Assign a different gatekeeper to any trunks that are using the gatekeeper that you want to delete. See the “[Configuring a Trunk](#)” section on page 68-59.
- Delete the trunks that are using the gatekeeper that you want to delete. See the “[Deleting a Trunk](#)” section on page 68-61.

Using the GUI

For instructions on how to use the Cisco Unified Communications Manager Administration Graphical User Interface (GUI) to find, delete, configure, or copy records, see the “[Navigating the Cisco Unified Communications Manager Administration Application](#)” section on page 1-13 and its subsections, which explain how to use the GUI and detail the functions of the buttons and icons.

Configuration Settings Table

Table 65-1 describes the gatekeeper configuration settings. For related procedures, see the “[Related Topics](#)” section on page 65-4.

Table 65-1 Gatekeeper Configuration Settings

Field	Description
Gatekeeper Information	
Host Name/IP Address	Enter the IP address or host name of the gatekeeper in this required field. You can register multiple gatekeepers per Cisco Unified Communications Manager cluster.
Description	Enter a descriptive name for the gatekeeper. The description can include up to 50 characters in any language, but it cannot include double-quotes (“”), percentage sign (%), ampersand (&), back-slash (\), or angle brackets (<>).
Registration Request Time to Live	Do not change this value unless a Cisco TAC engineer instructs you to do so. Enter the time in seconds. The default value specifies 60 seconds. The Registration Request Time to Live field indicates the time that the gatekeeper considers a registration request (RRQ) valid. The system must send a keepalive RRQ to the gatekeeper before the RRQ Time to Live expires. Cisco Unified Communications Manager sends an RRQ to the gatekeeper to register and subsequently to maintain a connection with the gatekeeper. The gatekeeper may confirm (RCF) or deny (RRJ) the request.
Registration Retry Timeout	Do not change this value unless a Cisco TAC engineer instructs you to do so. Enter the time in seconds. The default value specifies 300 seconds. The Registration Retry Timeout field indicates the time that Cisco Unified Communications Manager waits before retrying gatekeeper registration after a failed registration attempt.
Enable Device	This check box allows you to register this gatekeeper with Cisco Unified Communications Manager. By default, this check box remains checked. To unregister the gatekeeper from Cisco Unified Communications Manager gracefully, uncheck this check box. The gatekeeper unregisters within approximately 1 minute of updating this field.

Additional Information

See the “[Related Topics](#)” section on page 65-4.

Synchronizing a Gatekeeper

To synchronize a gatekeeper with the most recent configuration changes, perform the following procedure, which applies any outstanding configuration settings in the least-intrusive manner possible. (For example, a reset/restart may not be required on some affected devices.)

Procedure

Step 1 Choose **Device > Gatekeeper**.

The Find and List Gatekeepers window displays.

Step 2 Choose the search criteria to use.

Step 3 Click **Find**.

The window displays a list of gatekeepers that match the search criteria.

Step 4 Check the check boxes next to the gatekeepers that you want to synchronize. To choose all gatekeepers in the window, check the check box in the matching records title bar.

Step 5 Click **Apply Config to Selected**.

The **Apply Configuration Information** dialog displays.

Step 6 Click **OK**.

Additional Information

See the [“Related Topics”](#) section on page 65-4.

Related Topics

- [Gatekeeper Configuration, page 65-1](#)
- [Gatekeeper Configuration Settings, page 65-1](#)
- [Synchronizing a Gatekeeper, page 65-3](#)
- [Trunk Configuration, page 68-1](#)
- [Gatekeepers and Trunks, Cisco Unified Communications Manager System Guide](#)

Additional Cisco Documentation

- [Cisco Unified Communications Solution Reference Network Design \(SRND\)](#)
- [Cisco IOS Multimedia Conference Manager \(Command Reference\) documentation](#)