



Gatekeeper Setup

This chapter provides information about gatekeeper configuration using Cisco Unified Communications Manager Administration.

For additional information about gatekeepers and trunks, see the following Cisco documentation:

- *Cisco Unified Communications Manager System Guide*
- *Cisco Unified Communications Solution Reference Network Design (SRND)*
- Cisco IOS Multimedia Conference Manager (Command Reference) documentation
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About Gatekeeper Setup

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.

- 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.

Gatekeepers Configuration Tips

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

Gatekeeper Reset

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.

For instructions on how to reset a gatekeeper, see the descriptions of the Reset Selected and Reset buttons.



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

Gatekeeper Deletions

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. 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.
- Delete the trunks that are using the gatekeeper that you want to delete.

Gatekeeper Settings

The following table describes the gatekeeper settings.

Table 1: Gatekeeper Settings

Field	Description
Gatekeeper Information	
Host Name/IP Address	<p>Enter the IP address or host name of the gatekeeper in this required field.</p> <p>You can register multiple gatekeepers per Cisco Unified Communications Manager cluster.</p>
Description	<p>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 (<>).</p>
Registration Request Time to Live	<p>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.</p> <p>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.</p> <p>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.</p>
Registration Retry Timeout	<p>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.</p> <p>The Registration Retry Timeout field indicates the time that Cisco Unified Communications Manager waits before retrying gatekeeper registration after a failed registration attempt.</p>
Enable Device	<p>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.</p>

Synchronize 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.
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