



Gatekeeper Configuration

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 CallManager clusters and H.323 networks. You can configure multiple gatekeeper devices per Cisco CallManager cluster. You can configure alternate gatekeepers for redundancy. Refer to MCM documentation for alternate gatekeeper configuration details.

Gatekeeper configuration comprises two components:

- Cisco CallManager configuration. Each Cisco CallManager cluster can register with one or more gatekeepers. This chapter describes how to configure the gatekeeper in Cisco CallManager. You also need to configure trunk devices on the Trunk Configuration page. See the [Trunk Configuration](#) chapter.
- 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. Refer to the MCM documentation for information on configuring the gatekeeper. Alternate gatekeeper configuration occurs in the MCM only, so no configuration is necessary in Cisco CallManager.

The following topics cover gatekeeper configuration in Cisco CallManager Administration:

- [Adding a Gatekeeper, page 45-2](#)
- [Deleting a Gatekeeper, page 45-3](#)

- [Modifying a Gatekeeper, page 45-4](#)
- [Resetting a Gatekeeper, page 45-4](#)
- [Gatekeeper Configuration Settings, page 45-6](#)

The following topics contain additional information related to gatekeepers:

- [Gatekeepers and Trunks](#), *Cisco CallManager System Guide*
- *Cisco IP Telephony Network Design Guide*
- Cisco IOS Multimedia Conference Manager (Command Reference) documentation

Adding a Gatekeeper

Perform the following procedure to add a gatekeeper device.



Note

You can configure multiple gatekeeper devices per Cisco CallManager cluster.

Procedure

Step 1 Choose **Device > Gatekeeper**.

The Gatekeeper Configuration page displays.

Step 2 Enter the appropriate settings as described in [Table 45-1](#).

Step 3 To add the new gatekeeper, click **Insert**.

The page updates, and the name of the new gatekeeper displays in the Gatekeepers list.

Related Topics

- [Deleting a Gatekeeper, page 45-3](#)
- [Modifying a Gatekeeper, page 45-4](#)
- [Resetting a Gatekeeper, page 45-4](#)
- [Gatekeeper Configuration Settings, page 45-6](#)

Deleting a Gatekeeper

Perform the following steps to delete a gatekeeper.



Note Before deleting a gatekeeper, you must delete all trunks that the gatekeeper controls.

Procedure

Step 1 Choose **Device > Gatekeeper**.

The Gatekeeper Configuration page displays. From the Gatekeepers list, choose the gatekeeper that you want to delete.

The window refreshes and shows the gatekeeper that you chose.

Step 2 Click the **Delete** button.

A confirmation dialog box displays.

Step 3 To delete the gatekeeper, click **OK**.

Related Topics

- [Adding a Gatekeeper, page 45-2](#)
- [Modifying a Gatekeeper, page 45-4](#)
- [Resetting a Gatekeeper, page 45-4](#)
- [Gatekeeper Configuration Settings, page 45-6](#)

Modifying a Gatekeeper

Perform the following steps to modify gatekeeper settings:

Procedure

- Step 1** Choose **Device > Gatekeeper**.
- The Gatekeeper Configuration page displays. From the Gatekeepers list, choose the gatekeeper that you want to modify.
- The window refreshes and shows the gatekeeper that you chose.
- Step 2** Update the appropriate settings as described in [Table 45-1](#).
- Step 3** To save the changes, click **Update**.
- The page refreshes to display the new settings.
- Step 4** Reset the gatekeeper as needed to activate the changes. See the [“Resetting a Gatekeeper” section on page 45-4](#) for details.
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Related Topics

- [Adding a Gatekeeper, page 45-2](#)
- [Deleting a Gatekeeper, page 45-3](#)
- [Resetting a Gatekeeper, page 45-4](#)
- [Gatekeeper Configuration Settings, page 45-6](#)

Resetting a Gatekeeper

Resetting a gatekeeper does not mean that the physical device is reset; instead, resetting forces the Cisco CallManager to reregister with the gatekeeper. Perform the following procedure to reset a gatekeeper.



Note

Resetting devices does not cause all active calls controlled by this gatekeeper to be dropped.

Procedure

Step 1 Choose **Device > Gatekeeper**.

The Gatekeeper Configuration page displays. From the Gatekeepers list, choose the gatekeeper that you want to reset.

The window refreshes and shows the gatekeeper that you chose.

Step 2 If you changed any settings for the Gatekeeper Device, click **Reset Gatekeeper**.

The Reset Device dialog displays.

Step 3 Click one of the following choices:

- **Restart**—Restarts the internal gatekeeper device to update it with the new gatekeeper configuration without dropping calls.
 - **Reset**—Shuts down, then restarts the internal gatekeeper device. The Cisco CallManager cluster unregisters (URQ) and then reregisters (RRQ) with the gatekeeper.
 - **Close**—Closes the Reset Device dialog without performing any action.
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Related Topics

- [Adding a Gatekeeper, page 45-2](#)
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- [Modifying a Gatekeeper, page 45-4](#)
- [Gatekeeper Configuration Settings, page 45-6](#)

Gatekeeper Configuration Settings

Table 45-1 describes the gatekeeper configuration settings.

Table 45-1 Gatekeeper Configuration Settings

Field	Description
Gatekeeper Information	
Host Name/IP Address	Enter the IP address or DNS name of the gatekeeper in this required field. You can register multiple gatekeepers per Cisco CallManager cluster.
Description	Enter a descriptive name for the gatekeeper.
Registration Request Time to Live	Do not change this value unless instructed to do so by a Cisco TAC engineer. Enter the time in seconds. The default value specifies 60 seconds. The Registration Request Time to Live field indicates the length of 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 CallManager 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.

Table 45-1 Gatekeeper Configuration Settings (continued)

Field	Description
Registration Retry Timeout	<p>Do not change this value unless instructed to do so by a Cisco TAC engineer. Enter the time in seconds. The default value specifies 300 seconds.</p> <p>The Registration Retry Timeout field indicates the length of time that Cisco CallManager 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 CallManager. By default, this check box remains checked. To unregister the gatekeeper from Cisco CallManager gracefully, uncheck this check box. The gatekeeper unregisters within approximately one minute of updating this field.</p>

Related Topics

- [Adding a Gatekeeper, page 45-2](#)
- [Deleting a Gatekeeper, page 45-3](#)
- [Resetting a Gatekeeper, page 45-4](#)
- [Modifying a Gatekeeper, page 45-4](#)

