



## Configuring a Gatekeeper

---

A gatekeeper (also known as a Cisco Multimedia Conference Manager, or MCM) is a device that supports the H.225 RAS message set used for call admission control, bandwidth allocation, and dial pattern resolution. Only one gatekeeper device can be configured per Cisco CallManager cluster.

### Related Topics

The following topics contain additional information related to gatekeepers:

- Understanding Call Admission Control, page 5-1
- Gatekeepers, page 5-3
- Adding a Gatekeeper, page 44-1
- Deleting the Gatekeeper, page 44-6
- Resetting or Restarting the Gatekeeper, page 44-6
- Modifying the Gatekeeper, page 44-7

## Adding a Gatekeeper

Perform the following procedure to add a gatekeeper device.

### Procedure

---

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Device > Gatekeeper**.

**Step 3** Enter the appropriate settings, as defined in Table 44-1.

**Table 44-1 Gatekeeper Configuration Settings**

Field	Description	Usage Notes
Gatekeeper Name	The IP address or DNS name of the gatekeeper.	Only one gatekeeper can be registered per Cisco CallManager cluster.
Description	Descriptive name for the gatekeeper.	
Registration Request Time to Live	The amount of time that the gatekeeper will consider a registration request (RRQ) valid. A keepalive RRQ must be sent to the gatekeeper before the RRQ Time to Live expires.  An RRQ is a request sent by a Cisco CallManager to the gatekeeper to register and then subsequently to maintain a connection with the gatekeeper. The request may be confirmed (RCF) or denied (RRJ).	Enter a time in seconds. The default value is 60 seconds.  Do not change this value unless instructed to by a Cisco TAC engineer.
Registration Retry Timer	The amount of time Cisco CallManager waits before retrying gatekeeper registration after a failed registration attempt.	Enter a time in seconds. The default value is 300 seconds.  Do not change this value unless instructed to by a Cisco TAC engineer.

**Table 44-1 Gatekeeper Configuration Settings (continued)**

Field	Description	Usage Notes
Terminal Type	<p>Determines the type for all of the devices controlled by this gatekeeper.</p> <ul style="list-style-type: none"> <li>• Select Gateway if all gatekeeper-controlled devices are gateways (including intercluster trunks).</li> <li>• Select Terminal if all gatekeeper-controlled devices are H.323 clients (for example, Microsoft NetMeeting devices).</li> </ul>	<p>All gatekeeper-controlled devices must be of the same type.</p> <p>Select either Terminal or Gateway from the drop-down list box.</p> <p>This field is normally set to Gateway for normal gatekeeper call admission control.</p>
Device Pool	<p>Specifies the collection of properties for this device including CallManager Group, Date/Time Group, Region, and Calling Search Space.</p>	<p>Select the name of a Device Pool from the drop-down list box.</p>
Allow Anonymous Calls	<p>This setting enables or disables the ability to send and receive intercluster calls to and from devices that are not explicitly configured in the database for each remote Cisco CallManager controlled by this gatekeeper.</p> <p>This eliminates the need for a Cisco CallManager to have an H.225 device (intercluster trunk) explicitly configured for every remote CallManager that may be called over the IP WAN.</p> <p>When you enable Allow Anonymous Calls, you must also fill in the configuration settings below.</p>	<p>By default, Allow Anonymous Calls is disabled.</p> <p>When you enable Allow Anonymous Calls and fill in the remainder of the fields below, you are essentially creating a device (similar to an intercluster trunk) that can send and receive calls to or from any remote Cisco CallManager controlled by this gatekeeper. This only applies to intercluster calls.</p> <p>This device has all the characteristics of a normal device such as region, calling search space, location, and so on.</p>

**Table 44-1 Gatekeeper Configuration Settings (continued)**

Field	Description	Usage Notes
<b>Allow Anonymous Calls Device</b>		
Calling Search Space	Specifies the collection of Route Partitions searched to determine how a collected (originating) number should be routed.	
Location	Specifies the remote location accessed using restricted bandwidth connections.	
Caller ID DN	The pattern you want to use for Caller ID, from 0 to 24 digits.	<p>For example, in North America:</p> <ul style="list-style-type: none"> <li>• 555XXXX = variable Caller ID, where X is equal to an extension number. The Central Office (CO) appends the number with the area code if you do not specify it.</li> <li>• 5555000 = Fixed Caller ID. Use when you want the Corporate number to be sent instead of the exact extension from which the call is placed. The CO appends the number with the area code if you do not specify it.</li> </ul>
Calling Party Selection	Any outbound call on a gateway can send directory number information. This field determines which directory number is sent.	<p>The following options specify which directory number is sent:</p> <ul style="list-style-type: none"> <li>• Originator—send the directory number of the calling device.</li> <li>• First Redirect Number—send the directory number of the redirecting device.</li> <li>• Last Redirect Number—send the directory number of the last device to redirect the call.</li> </ul>

**Table 44-1 Gatekeeper Configuration Settings (continued)**

Field	Description	Usage Notes
Presentation Bit	Determines whether the CO transmits or blocks caller ID.	Select Allowed if you want the CO to send caller ID.  Select Restricted if you do not want the CO to send caller ID.
Media Termination Point Required	Determines whether or not a Media Termination Point (MTP) is used to implement features that H.323 does not support (such as hold and transfer). An MTP is also required if you need a transcoder.	Used for H.323 clients only and those H.323 devices that do not support the H.245 empty capabilities set.
Num Digits	Specifies the number of significant digits to collect, from 0 to 32.  Significant digits are counted from the right (last digit) of the number called.	This field is used if you enable Sig Digits. It is used for the processing of incoming calls and indicates the number of digits starting from the last digit of the called number used to route calls coming into the H.323 device. See Prefix DN and Sig Digits.
Sig Digits	Represents the number of final digits retained on inbound calls. A trunk with significant digits enabled truncates all but the final few digits of the address provided an inbound call.	Enable or disable this box depending on whether you want to collect significant digits.  If disabled, the Cisco CallManager does not truncate the inbound number.  If enabled, you also need to choose the number of significant digits to collect (see Num Digits).
Prefix DN	Specifies the prefix digits that are appended to the called party number on incoming calls.	The Cisco CallManager adds prefix digits after first truncating the number in accordance with the Num Digits setting.

- Step 4** Click **Insert** to add the new gatekeeper. The page is updated and the name of the new gatekeeper is displayed in the list on the left.
- 

**Related Topics**

- “Gatekeepers” section on page 5-3

## Deleting the Gatekeeper

Perform the following steps to delete the gatekeeper.

**Procedure**

- 
- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Device > Gatekeeper**.
- Step 3** Click on the name of the gatekeeper from the list on the left side of the screen. The page refreshes to show the configuration information for the gatekeeper.
- Step 4** Click the **Delete** button. A confirmation dialog box displays.
- Step 5** Click **OK** to permanently delete the gatekeeper.
- 

**Related Topics**

- “Gatekeepers” section on page 5-3

## Resetting or Restarting the Gatekeeper

Perform the following procedure to reset or restart the gatekeeper.

**Procedure**

- 
- Step 1** Open Cisco CallManager Administration.

- Step 2** Select **Device > Gatekeeper**.
- Step 3** Click on the name of the gatekeeper in the list on the left side of the screen.  
The page refreshes to show the configuration information for the gatekeeper.
- Step 4** Click **Reset Gatekeeper**. The Reset Device dialog displays.
- Step 5** Click one of the following:
- **Restart** or **Reset** —Shut down, then reset the internal gatekeeper device. The Cisco CallManager cluster will un-register (URQ) and then re-register (RRQ) with the gatekeeper.
  - **Close**—Close the Reset Device dialog without performing any action.
- 

#### Related Topics

- “Gatekeepers” section on page 5-3

## Modifying the Gatekeeper

Perform the following steps to modify gatekeeper settings:

#### Procedure

---

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Device > Gatekeeper**.
- Step 3** Click on the name of the gatekeeper from the list on the left side of the screen.  
The page refreshes to show the configuration settings for the gatekeeper.
- Step 4** Make the desired changes to the configuration settings.
- Step 5** Click **Update** to apply the changes. The page refreshes to display the new settings.
- 

#### Related Topics

- “Gatekeepers” section on page 5-3

■ **Modifying the Gatekeeper**