



CHAPTER 2

Configuring a Gatekeeper Profile in Resource Manager

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Selecting a Gatekeeper Type

Cisco Unified Videoconferencing Manager supports the following types of gatekeeper:

- [Cisco IOS H.323 Gatekeepers, page 2-1](#)
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Cisco IOS H.323 Gatekeepers

Resource Manager supports the use of Cisco IOS Gatekeepers. In deployments with Cisco IOS Gatekeepers, we recommend that you register Cisco Unified Videoconferencing 3500 MCUs and 3545 Gateways with the Resource Manager internal gatekeeper to preserve the “virtual MCU” features, and that you register endpoints with the Cisco IOS Gatekeepers for scalability. The Resource Manager internal gatekeeper and the Cisco IOS Gatekeeper are then configured as neighbors.

External Gatekeepers

Resource Manager supports external gatekeepers, such as the RADVISION ECS Gatekeeper. The Resource Manager can only support external gatekeepers if the external gatekeeper is configured as a neighbor to the Cisco Unified Videoconferencing Manager internal gatekeeper or Cisco IOS H.323 Gatekeeper. Only endpoints (terminals) can be registered to an external gatekeeper.

How to Create or Modify a Gatekeeper Profile

Only an Organization Administrator has permission to configure an H.323 gatekeeper in the system for video conferences using the H.323 protocol.

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Defining Gatekeeper Address Details

Procedure

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- Step 1** Click **Resource Management** in the sidebar menu.
- Step 2** Click **Gatekeeper/SIP server**.
- Step 3** Click the link in the Name column for the gatekeeper you require, or click **Add** to create a new gatekeeper profile.
- Step 4** Locate the General section.
- Step 5** Enter the name and IP address of the gatekeeper in the relevant fields.
- Step 6** Select the gatekeeper model.
- If you select **Other** in the Model field, select **H.323** in the Protocol field.
- Step 7** Select the device island to which the gatekeeper belongs from the Location list.
- Each device island can have only one gatekeeper.
- The Location field is visible only when the IP Topology tab is activated in the Resource Manager Configuration Tool under System Configuration > UI Settings.
- Step 8** Click **OK** to save your changes.
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Defining Dialing Plan Settings

Procedure

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- Step 1** Click **Resource Management** in the sidebar menu.
- Step 2** Click **Gatekeeper/SIP server**.
- Step 3** Click the link in the Name column for the gatekeeper you require, or click **Add** to create a new gatekeeper profile.
- Step 4** Locate the Dialing Plan Information section.
- Step 5** (Optional) Select **Hierarchical** if the gatekeeper has a parent-child relationship with its neighbor in the dialing plan, rather than a flat peer relationship.

If you choose Hierarchical, the Parent Gatekeeper list becomes active. From the list choose a parent zone for the gatekeeper. **None** is automatically selected in the list if the gatekeeper is a parent at the top of the hierarchy.

Do not choose Hierarchical for a root gatekeeper. The root gatekeeper in a hierarchical tree structure has no parent but may have peer neighbors.

- Step 6** (Optional) Select **Stripping** for a gatekeeper that is configured to strip (remove) zone prefixes.
 - Step 7** Click **Add Zone Prefix** to add a zone prefix that matches the configuration of the gatekeeper.
 - Step 8** Click **OK** to save your changes.
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Defining Resource Manager as the Gatekeeper Authorization Server

Procedure

- Step 1** Click **Resource Management** in the sidebar menu.
 - Step 2** Click **Gatekeeper/SIP server**.
 - Step 3** Click the link in the Name column for the gatekeeper you require, or click **Add** to create a new gatekeeper profile.
 - Step 4** Locate the Advanced section.
The Advanced section appears if you are using the internal gatekeeper.
 - Step 5** Select **Enable Gatekeeper advanced features (authorization and point-to-point)** to set Resource Manager as the authorization server of the internal gatekeeper.
 - Step 6** You do not need to modify the internal gatekeeper default values for the Port, SNMP Get Community and SNMP Set Community fields.
 - Step 7** Click **OK** to save your changes.
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Removing a Gatekeeper Profile

Procedure

- Step 1** Click **Resource Management** in the sidebar menu.
- Step 2** Click **Gatekeeper/SIP server**.
- Step 3** Click the gatekeeper entry you wish to delete in the Name column.
- Step 4** Click **Delete** and then **OK**.

The gatekeeper profile is deleted from the scheduler and information about the gatekeeper is removed from the database.

Searching for a Gatekeeper Profile

Procedure

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- Step 1** Click **Resource Management** in the sidebar menu.
- Step 2** Click **Gatekeeper/SIP server**.
- Step 3** Enter all or part of the name of the gatekeeper you want to find in the Name field.
- Step 4** Click **Search**.

Search results are listed. If you are using the internal gatekeeper, the following information about connection status is available in the list of search results:

- **Authorization Connection** indicates whether or not Resource Manager acts as the authorization server for the internal gatekeeper. This connection needs to appear as connected for advanced Resource Manager features such as Virtual MCU and point-to-point call control to function correctly.
- **Call Control Connection** indicates whether or not a Call Control API connection is established between the gatekeeper and Resource Manager.
- **SNMP Connection** indicates whether or not the SNMP connection between the Resource Manager and the gatekeeper is established.

- Step 5** To return to the complete list of gatekeepers, clear the Name field, and then click **Search**.
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Accessing Meetings from an External Gatekeeper

If a standalone internal gatekeeper authorized by Resource Manager or an internal gatekeeper is neighbored to an external gatekeeper (for example, a Cisco IOS Gatekeeper), perform the following configuration steps in the internal gatekeeper web user interface to enable dial-in and dial-out to work properly between the internal gatekeeper and the external gatekeeper:

Procedure

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- Step 1** In the external gatekeeper interface, add the Resource Manager internal gatekeeper as a neighbor to this external gatekeeper, and define the zone prefix for the internal gatekeeper according to the dial plan.
- Step 2** In the external gatekeeper interface, define the following forwarding rules:
- Forward any dial strings that begin with Resource Manager Meeting ID Prefix to the internal gatekeeper.
 - Forward any dial strings that begin with MCU service prefix or gateway service prefix to the internal gatekeeper.

Since terminals are registered to the external gatekeeper, these two forwarding rules allow these terminals to dial into the Resource Manager meetings from the external gatekeeper.
