



CHAPTER 10

Defining Resource Manager Call Routing Modes

Resource Manager offers two call routing modes. This section describes these modes and explains their use in H.323 and SIP deployments.

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Call Routing in H.323 Deployments

In Fully Routed H.323 Mode, Resource Manager acts as an authorization server to the internal gatekeeper. Resource Manager manages all traffic passing through the internal gatekeeper and can control where incoming calls will go.

Fully Routed Mode enables the “Virtual MCU” feature where Resource Manager can present multiple MCUs as a single pool of video and audio ports, or as a single virtual MCU.

For Fully Routed Mode, ensure you select the Enable Gatekeeper advanced features (authorization and point-to-point) option.

Procedure

- Step 1** Select **Resource Management** in the sidebar menu.
 - Step 2** Select **Gatekeeper/SIP server**.
 - Step 3** Select the link in the Name column for the gatekeeper you require, or select **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)**.
 - Step 6** Select **OK** to save your changes.
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Call Routing in SIP Deployments

In SIP deployments, Resource Manager works in Fully Routed Mode using the embedded SIP server to manage all traffic.

Because MCUs have Resource Manager configured as the outbound proxy, and the external SIP server is configured to route incoming calls to the Resource Manager embedded SIP server, Resource Manager can control all calls going through the MCU.

**Note**

Resource Manager cannot manage SIP endpoint point-to-point traffic because these endpoints are registered to the external SIP server.

Masking Conference Topology with the Virtual MCU Feature

By controlling the call routing logic of the internal gatekeeper, Resource Manager can mask the complexity of the actual network deployment from end users. Resource Manager can create a conference that spans multiple MCUs and present the conference to the end user as a single conference with a single dialing ID, a single PIN, and a single In-meeting Control interface to manage it. This is the Resource Manager Virtual MCU feature.

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Creating a Centralized Conference

This section describes how to use the Virtual MCU feature to establish a centralized conference.

Procedure

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- Step 1** Under **Admin > Advanced Settings > Default Meeting Settings**, set the Prioritize field to **Delay** to host a conference on a single MCU when possible.
- Resource Manager cascades multiple MCUs to create a conference only if the conference size is larger than the capacity of a single MCU.
- Step 2** Select **OK** to save your changes.
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Creating a Distributed Conference

This section describes how to use the Virtual MCU feature to establish a distributed conference.

Procedure

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- Step 1** Under **Admin > Advanced Settings > Default Meeting Settings**, set the Prioritize field to **Local MCU** to force endpoints to cascade to their local MCU first, according to the IP topology configured in the Network Management section.

If there are endpoints from multiple locations, at least one MCU from each location is cascaded into the main MCU conference.

Step 2 Select **OK** to save your changes.
