

# Configuring a Gateway Profile in Resource Manager

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## Creating or Modifying a Gateway Profile

Configure gateways in your network to enable PSTN/ISDN/mobile terminals to join a meeting. Resource Manager uses the gateway information to provide proper dialing information for meeting participants, and to dial out to terminals to invite them to meetings. Resource Manager also manages gateway resources to allow successful call scheduling using network gateways.

When you add a gateway, settings in Resource Manager must be consistent with the actual gateway configuration. We recommend the following:

- If you make changes to the gateway, maintain the IVR and DID numbers in Resource Manager.
- To ensure that there are no gateway ports available for scheduled and ad hoc calls, maintain capacity information.

### Procedure

- Step 1** Select **Resource Management** in the sidebar menu.
- Step 2** Select **Gateway**.
- Step 3** Select the link in the Name column for the gateway you require, or select **Add** to create a new gateway profile.
- Step 4** Enter the name of the gateway in the Name field.
- Step 5** Select a gateway model and enter an IP address in the relevant fields.



**Note** If multiple gateways are pooled together in a local network with the same access phone number, you can enter multiple IP addresses in the IP Address field to indicate the gateways in the gateway pool. IP addresses are separated by a colon (:).

- Step 6** Select the gatekeeper from the Registered To list to which the gateway is registered.
- Step 7** Select the device island from the Location list to which the gateway belongs.  
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** Select **Add Service** and select the bandwidth for the gateway or gateway pool. For example, for an E1 line, the bandwidth should be 30 B-channels (3940 Kbps).
- Step 9** Enter a gateway phone number.
- Enter a description of the phone number for the gateway in the Description field.
  - Enter the numeric prefix required to make an international long distance call in the International Access Code field.
  - Enter the numeric prefix required to make a long distance call within the same country in the Domestic Long Distance Prefix field.
  - Enter the country code for the gateway phone number in the Country Code field. Resource Manager adds this prefix when dial-out is performed from this gateway to a terminal located in a different country than the country in which the gateway is located.
  - If Allow Out of Area Calls is not selected, only endpoints with the same area code as the gateway are allowed to reach Resource Manager using the gateway.
  - If you select Allow Out of Area Calls, the gateway accepts incoming calls to Resource Manager from terminals with a different area code than that of the gateway.
  - Enter the domestic area code of the gateway number in the Area Code field.
  - Specify a local telephone number in the Telephone Number field that you want to assign to the specific port.
  - Enter a number in the To access an outside line for local calls, dial field for a gateway with no direct access to an outside line for local calls.
  - Enter a number in the To access an outside line for long distance calls, dial field, for a gateway with no direct access to an outside line for long distance calls.
  - Assign the ISDN device island that the gateway or gateway pool belongs to. If ISDN Topology is hidden, then this field is also hidden.
- Step 10** Select **Add Service** to add or modify the gateway service.



**Note** If you select Restricted Mode in the Bandwidth section, 56 appears in the Kbps list. Multiples of 56 Kbps are used instead of multiples of 64. Resource Manager does not support gateway services whose bandwidth is set to “auto” since Resource Manager needs the specific bandwidth to perform resource reservation. If there is a gateway service with “auto” bandwidth, when you configure this service in Resource Manager, select a bandwidth value to best approximate the average bandwidth endpoints use when dialing that service.

- Step 11** Set the Advanced Settings.
- Set the gateway port used for signaling in the Signaling Port field. By default, it is left blank and signaling port will be negotiated dynamically on the fly.
  - Set the SNMP community name required by Resource Manager to communicate with the gateway in the SNMP Get/Set Community fields.
  - Select **Dial-in Only** to mark the gateway for use only with terminals that users dial into. Resource Manager does not schedule dial-out calls on this gateway.

**Step 12** Select **OK** to save your changes.

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## Taking a Gateway Offline

Once a gateway is configured, it is automatically brought online so that Resource Manager can schedule resources.

### Procedure

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- Step 1** Select **Resource Management** in the sidebar menu.
- Step 2** Select **Gateway**.
- Step 3** Select the link in the Name column for the gateway you require.
- Step 4** To take the gateway offline temporarily, select **Take this gateway offline and reschedule all meetings on this gateway up to this date** and set the date to bring the gateway online again.
- Step 5** To take the gateway offline permanently, select **Take this gateway offline and reschedule all meetings currently on this gateway**.
- Step 6** Select **OK** to save your changes.

When you take the gateway offline, the following changes occur:

- Resource Manager cannot schedule meetings for the offline gateway.
- All meetings currently in progress are terminated. Resource Manager attempts to reschedule upcoming meetings for the offline gateway on other gateways that use the same services and have sufficient, available resources. If no replacement gateways are available when the gateway status is changed back to online, upcoming meetings are lost and not restored.
- If the gateway goes offline temporarily, Resource Manager attempts to reschedule all meetings scheduled to this gateway from the time the gateway goes offline to the specified date for its return online.

If the gateway goes offline permanently, Resource Manager attempts to reschedule all future meetings scheduled to this gateway.

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## Removing a Gateway Profile

You must take a gateway offline before you can remove it from the Cisco Unified Videoconferencing Manager database.

### Procedure

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- Step 1** Select **Resource Management** in the sidebar menu.
- Step 2** Select **Gateway**.
- Step 3** Select the gateway entry you want to delete in the Name column.
- Step 4** Select **Delete** and then **OK**.

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

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## Searching for a Gateway Profile

### Procedure

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**Step 1** Select **Resource Management** in the sidebar menu.

**Step 2** Select **Gateway**.

**Step 3** Enter the partial or complete name of the gateway in the Name field.

**Step 4** Select **Search**.

Search results are listed.

The Status column indicates whether the gateway is online or not. Resource Manager only uses an online gateway for meeting scheduling and creation.

The SNMP Connection column indicates whether or not Resource Manager established an SNMP connection with the gateway.

**Step 5** To return to the complete list of gateways, clear the Name field, and then select **Search**.

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