



Configuring Route Groups

A route group allows you to designate the order in which gateways are selected. It allows you to prioritize a list of gateways and ports for outgoing trunk selection.

For example, if you use two long distance carriers, you could add a route group so that long distance calls to the less expensive carrier are given priority. Calls only route to the more expensive carrier if the first trunk is unavailable.

Refer to the “Route Plan Overview” section on page 6-1, and “Understanding Route Groups” section on page 24-2 for more detailed route group information.

Use the following procedures to add or delete a route group or to add devices to or remove devices from a route group:

- Adding a Route Group, page 24-2
- Adding Devices to a Route Group, page 24-3
- Removing Devices from a Route Group, page 24-5
- Updating a Route Group, page 24-6
- Deleting a Route Group, page 24-7

Understanding Route Groups

Each gateway, or all ports or selected ports combination, can only belong to one route group and can only be listed once within that route group.

Route groups are optional. If a proposed route group only contains one gateway or one gateway-and-port combination and that route group is not to be included in a route list, the route group is not needed.

If a gateway is assigned to a route pattern (all ports used), then the gateway will not be listed as gateways to be included in route groups. The gateway-and-port combination can only be included in one route group. For example, if device X with ports 4, 5 are selected in route group 1, then the same device and ports cannot be selected in any other route group. Other unused ports, however, can be used in other route groups.

Adding a Route Group

The following procedure describes how to add a route group.

Procedure

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Route Plan > Route Group** in the menu bar.
- Step 3** Enter a name in the Route Group Name field. The name can consist of up to 50 alphanumeric characters, and can contain any combination of spaces, periods (.), hyphens (-), and underscore characters (_). Each route group name must be unique to the route plan.



Timesaver

Use concise and descriptive names for your route groups. The CompanynameLocationGroup format usually provides a sufficient level of detail and is short enough to enable you to quickly and easily identify a route group. For example, CiscoDallasAA1 identifies a Cisco Access Analog route group for the Cisco office in Dallas.

- Step 4** Click **Continue**.

- Step 5** Select the device you want to add to the group from the Device Name drop-down list box.
- Step 6** If this device supports individually configurable ports, select the port in the Port drop-down list box. (Cisco Access Analog and Cisco MGCP Analog gateways allow you to select individual ports.) Otherwise, select All (default value).
- Step 7** Select the order in which you want to access this port or device in the Order drop-down list box.
- Step 8** Click **Insert** to add this route group with one device.
- Step 9** Click **Add Device** and repeat Steps 4 through 8 to add more devices to this route group. Click **New** and repeat Steps 3 through 8 to add more route groups.
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Related Topics

- Route Plan Overview, page 6-1
- Understanding Route Groups, page 24-2
- Adding Devices to a Route Group, page 24-3
- Removing Devices from a Route Group, page 24-5
- Deleting a Route Group, page 24-7
- Adding a Route List, page 25-6
- Adding Route Groups to a Route List, page 25-8

Adding Devices to a Route Group

You can add devices to a new route group or to an existing route group. The following procedure describes adding a device to an existing route group.

Before You Begin

You must define one or more gateway devices before performing this procedure.

Procedure

- Step 1** Open Cisco CallManager Administration.

- Step 2** Select **Route Plan > Route Group** in the menu bar.
- Step 3** Select a name from the route group list on the left side of the page.
- Step 4** Click **Add Device**.
- Step 5** Select the device you want to add to the group from the Device Name drop-down list box.
- Step 6** If this device supports individually configurable ports, select the port in the Port drop-down list box. (Cisco Access Analog and Cisco MGCP Analog gateways allow you to select individual ports.) Otherwise, select **All** (default value).
- Step 7** Select the order in the Order drop-down list box.
- Step 8** Click **Insert** to add this gateway and selected ports to the route group.
- Step 9** Click **Update** to update the device order for this route group.
- Step 10** Select the order in which the new device is to be accessed in this route group in the Order drop-down list box.
- Step 11** Click **Add Device** and repeat Steps 5 through 9 to add more devices to this route group.
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Related Topics

- [Route Plan Overview, page 6-1](#)
- [Understanding Route Groups, page 24-2](#)
- [Adding a Route Group, page 24-2](#)
- [Removing Devices from a Route Group, page 24-5](#)
- [Updating a Route Group, page 24-6](#)
- [Deleting a Route Group, page 24-7](#)
- [Adding a Route List, page 25-6](#)

Removing Devices from a Route Group

You can remove devices from a new route group or from an existing route group. The following procedure describes removing a device from an existing route group.

Procedure

- Step 1** Open Cisco CallManager Administration.
 - Step 2** Select **Route Plan > Route Group** in the menu bar.
 - Step 3** Select a name from the route group list on the left side of the page.
 - Step 4** Under the Route Group Members subheading, select the check box or boxes to the left of the devices to be deleted.
 - Step 5** Click **Remove Device**. A dialog box appears warning you that removing devices from a route group cannot be undone.
 - Step 6** Click **OK** to remove the devices, or click **Cancel** to cancel the action. If you click **OK**, the devices are removed from the route group.
 - Step 7** Select a name in the route group list on the left side of the page and repeat Steps 4 through 6 to remove devices from another route group.
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Related Topics

- Route Plan Overview, page 6-1
- Understanding Route Groups, page 24-2
- Adding a Route Group, page 24-2
- Adding Devices to a Route Group, page 24-3
- Updating a Route Group, page 24-6
- Deleting a Route Group, page 24-7
- Adding a Route List, page 25-6

Updating a Route Group

The following procedure describes how to update a route group.

Before You Begin

The route group to be updated must already be configured before performing this procedure.

Procedure

- Step 1** Open Cisco CallManager Administration.
 - Step 2** Select **Route Plan > Route Group** in the menu bar.
 - Step 3** Select the route group you want to update from the list on the left side of the page.
 - Step 4** Make the desired changes to the route group and click **Update**. Your changes should appear and the Status field should say Update completed.
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Related Topics

- [Route Plan Overview](#), page 6-1
- [Understanding Route Groups](#), page 24-2
- [Adding a Route Group](#), page 24-2
- [Adding Devices to a Route Group](#), page 24-3
- [Deleting a Route Group](#), page 24-7
- [Adding a Route List](#), page 25-6

Deleting a Route Group

The following procedure describes how to delete a route group.

**Note**

You cannot delete a route group that is referenced by one or more route lists. You must remove the route group from all route lists to which it belongs before deleting the route group.

Procedure

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- Step 1** Open Cisco CallManager Administration.
 - Step 2** Select **Route Plan > Route Group** in the menu bar.
 - Step 3** Select a name from the route group list on the left side of the page.
 - Step 4** Click **Delete**. A dialog box appears warning you that deleting route groups cannot be undone.
 - Step 5** Click **OK** to delete the group, or click **Cancel** to cancel the action. If you click **OK**, the route group is removed from the route group list. The gateways that belonged to the deleted route group can now be selected by other route groups or route patterns, provided that all ports were available with the gateways.
 - Step 6** Select a name in the route group list on the left side of the page and repeat Steps 4 and 5 to remove another route group.
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Related Topics

- [Route Plan Overview, page 6-1](#)
- [Understanding Route Groups, page 24-2](#)
- [Adding a Route Group, page 24-2](#)
- [Adding Devices to a Route Group, page 24-3](#)
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■ Deleting a Route Group