



## Using the External Route Plan Wizard

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The external route plan wizard is a tool that allows Cisco CallManager administrators to quickly configure external routing to the Public Switched Telephone Network (PSTN), to Private Branch Exchanges (PBXs), or to other Cisco CallManager systems.

Refer to the “Understanding the External Route Plan Wizard” section on page 6-25 for more detailed information about how the wizard generates the external route plan.

Use the following procedures to set up a route plan with the external route plan wizard:

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2
- Providing Tenant Information, page 28-4
- Entering Location Information, page 28-5
- Selecting Gateways, page 28-6
- Providing Gateway Information, page 28-8
- Generating the External Route Plan, page 28-9
- Confirming the External Route Plan, page 28-10
- Finishing the External Route Plan, page 28-11
- Deleting an External Route Plan, page 28-11

# Creating an External Route Plan

The following procedure describes how to begin to create an external route plan.

## Before You Begin

All gateways must be defined before using the external route plan wizard. Select **Device > Gateway** or **Device > MGCP** in the menu bar to set up new gateways.

## Procedure

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- Step 1** Open Cisco CallManager Administration.
  - Step 2** Select **Route Plan > External Route Plan Wizard** in the menu bar.
  - Step 3** Click **Next** on the External Route Plan Wizard introduction page to create an external route plan.
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## Related Topics

- Setting the Routing Options, page 28-2
- Providing Tenant Information, page 28-4
- Entering Location Information, page 28-5
- Selecting Gateways, page 28-6
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# Setting the Routing Options

The following procedure describes how to set routing options for the external route plan.

## Procedure

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**Step 1** Check the boxes for Local call fallback, Toll bypass fallback, Long distance fallback, International call fallback, and Equal access suppression as appropriate.



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**Note** If you choose local call fallback, toll bypass fallback, long distance fallback, or international call fallback, the external route plan wizard includes route groups with remote gateways in the associated route lists.

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**Step 2** Enter the access code for calls that are routed to remote or local gateways in the “Access code for toll bypass and fallback calls” field. Use only numeric values. (Many systems use 9 for external calls.)



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**Note** The access code entered in this field applies to the entire dial plan. Only one access code is allowed per dial plan.

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**Step 3** Enter the access code for calls between the Cisco CallManager and the adjacent PBX “Access code for extensions served by a connected PBX” field. (Many systems use 8 for calls to adjacent PBX systems.)

**Step 4** Click **Next**.

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## Related Topics

- Creating an External Route Plan, page 28-2
- Providing Tenant Information, page 28-4
- Entering Location Information, page 28-5
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# Providing Tenant Information

The following procedure describes how to add tenant information for the external route plan.

## Procedure

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**Step 1** Enter the tenant name in the Tenant Name field. (This is generally the name of the organization for which the route plan is being built.)



**Note** We recommend that you use a short tenant name because it is incorporated in the calling search space and partition names.

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**Step 2** Enter the number of geographical locations associated with the organization in the “Number of physical locations in the entire system” field. This field should reflect the all Cisco CallManagers in the system that use unique area codes. The default number of locations is two.

**Step 3** Click **Next**.

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## Related Topics

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2
- Entering Location Information, page 28-5
- Selecting Gateways, page 28-6
- Providing Gateway Information, page 28-8
- Generating the External Route Plan, page 28-9
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# Entering Location Information

The Location Entry page provides information for the number of locations specified on the Tenant Information page. The following procedure describes how to add location information for the external route plan.

## Procedure

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- Step 1** Enter the name of the location in the Location Name field if it is different from the one shown. Each location name must be unique for the tenant to which it applies.
- Step 2** Enter the local area codes available at this location in the Local Area Code(s) field. (Local area codes are all area codes in the calling area that are not considered to be long distance calls.)

If your area includes more than one local (toll free) area code, use commas to separate the area codes in the list. Place the primary local area code first, followed by the secondary, and tertiary local area codes.



**Note** The primary local area code is used to set prefix digits on local route patterns. If the primary area code is not listed in the correct order, it adversely affects route filter generation.

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- Step 3** Enter the 7- or 10-digit number that is the main number for the organization at this location.
- Step 4** Specify the number of digits required for local calls at this location.
- The route plan wizard uses this information to determine how many route lists to create for this location. If you select 10-digit or 7-digit dialing, the wizard creates one route list for this location. If you select Metro dialing, the wizard creates two route lists for the location.
- Step 5** Repeat Steps 1 through 4 to add location information for other locations.
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## Related Topics

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2

- Providing Tenant Information, page 28-4
- Selecting Gateways, page 28-6
- Providing Gateway Information, page 28-8
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## Selecting Gateways

The following procedure describes how to select gateways for the external route plan.



### Caution

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Do not select gateways that are used by existing route groups or route patterns. The wizard uses all ports on the selected gateway. If you select a gateway that is used by existing route groups or route patterns, the external route plan wizard will overwrite the previously configured ports.

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### Procedure

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- Step 1** Check the boxes for all the gateways associated with this route plan in all locations.
- Step 2** Click **Select All** if you want to include all the gateways defined in the system.
- Step 3** Click **Select None** if you have selected several gateways and want to deselect all of your selections.



### Note

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You must select at least one gateway before continuing with this procedure.

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**Step 4** Click Next.**Related Topics**

- [Creating an External Route Plan, page 28-2](#)
- [Setting the Routing Options, page 28-2](#)
- [Providing Tenant Information, page 28-4](#)
- [Entering Location Information, page 28-5](#)
- [Providing Gateway Information, page 28-8](#)
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- [Deleting an External Route Plan, page 28-11](#)

# Providing Gateway Information

The following procedure describes how to add gateway information for the gateways in the external route plan.

## Procedure

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- Step 1** Select the gateway location in the “Location of the gateway” drop-down list box.
- Step 2** Select the type of connection for this gateway in the “Type of carrier to which the gateway is connected” drop-down list box.
- Step 3** Specify the calling number that will be sent to the adjacent switch when a call is routed through this gateway.
- Step 4** Check the Discard dialed access code... check box if this gateway is connected to a PBX that does not require the Cisco CallManager access code.
- Step 5** Enter the range of directory numbers or extension numbers associated with the adjacent PBX. Use commas to separate multiple entries. Use X wildcard characters to specify ranges of digits. For example, if the PBX serves extensions numbered 8000 through 8999 and 9000 through 9999, enter 8XXX,9XXX to create route patterns for the identified directory number ranges.



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**Note** If you provide directory number ranges, the wizard generates one route list for each unique range (route pattern) you enter. If you provide an access code for the directory number ranges and do not check the Discard dialed access code... check box, the wizard generates one route list for each unique range (route pattern) you enter, and precedes each route list with the access code and a dot (.).

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- Step 6** Click **Next**.
  - Step 7** Repeat Steps 1 through 6 to add gateway information for the additional gateways.
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## Related Topics

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2

- Providing Tenant Information, page 28-4
- Entering Location Information, page 28-5
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## Generating the External Route Plan

Click **Next** to generate the external route plan.

**Note**

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The wizard can take several minutes to generate the external route plan, depending on the complexity of the route plan and the system load. Please do not start additional processes that would further load the system during this time.

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Click **Cancel** to prevent the external route plan wizard from generating this route plan.

**Note**

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If you click **Cancel**, all data associated with the current route plan is discarded. This action cannot be undone. The information must be re-entered.

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**Related Topics**

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2
- Providing Tenant Information, page 28-4
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## Confirming the External Route Plan

The following procedure describes how to confirm an external route plan.

### Procedure

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- Step 1** Check the external route plan wizard status report to ensure that the route plan contains the proper elements.
- Step 2** Click **Next** to complete the external route plan.



**Note** We strongly recommend that you print the status report for future reference.

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If you determine that the external route plan is incorrect based on the information shown in the status report, proceed to the final page of the external route plan wizard. The final page allows you to delete the entire route plan, if needed.

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### Related Topics

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2
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# Finishing the External Route Plan

Click **Finish** to complete the external route plan if the information shown on the external route plan wizard status report is correct.

Click **Delete External Route Plan** to remove all data generated by the external route plan wizard if the information shown on the status report is incorrect.



## Warning

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**Clicking “Delete External Route Plan” deletes all data that has been generated by the external route plan wizard. This action cannot be undone. All external route plan information must be re-entered.**

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### Related Topics

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2
- Providing Tenant Information, page 28-4
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# Deleting an External Route Plan

The following procedure describes how to delete an external route plan.

If any element generated by the external route plan wizard is being used in the system (for example, if Cisco IP Phones belong to a generated partition), the delete function will fail. If generated elements are used, the system components that are using those elements must be moved to non-generated elements before using the delete function.

**Warning**

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**This procedure deletes all data that has been generated by the external route plan wizard. This action cannot be undone. All external route plan information must be re-entered.**

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**Procedure**

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- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Route Plan > External Route Plan Wizard** in the menu bar.
- Step 3** Click **Delete External Route Plan** to remove all data generated by the external route plan wizard.
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**Related Topics**

- Creating an External Route Plan, page 28-2
- Setting the Routing Options, page 28-2
- Providing Tenant Information, page 28-4
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