



## 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), Private Branch Exchanges (PBXs), or other Cisco CallManager systems. This tool creates a single tenant, multi-location, partitioned route plan for the North American Numbering Plan (NANP) area. The route plan generated by the external route plan wizard includes the following elements:

- route filters
- route groups
- route lists
- route patterns
- partitions
- calling search spaces
- calling party digit translations and transformations
- access code manipulation

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

- Creating an External Route Plan, page 25-2
- Setting the Routing Options, page 25-3
- Providing Tenant Information, page 25-4
- Entering Location Information, page 25-5

- Selecting Gateways, page 25-6
- Providing Gateway Information, page 25-7
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## 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 Procedures

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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.
  - Step 2** Enter the access code for external calls to the PSTN or a PBX in the “Access code for local and long distance calls” field. (Many systems use 9 for external calls.)
  - Step 3** Enter the access code for internal Cisco CallManager dialing in the “Access code for extensions behind a connected PBX” field. (Many systems use 8 for internal calls.)
  - Step 4** Click **Next**.
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### Related Procedures

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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.)
- 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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# 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.
- 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 belong distance calls.)
- If your area includes more than one local (too free) area code, use commas to separate the area codes in the list.
- 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.
- Step 5** Repeat Steps 1 through 4 to add location information for other locations.
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# Selecting Gateways

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

**Caution**

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Gateways that are being used by existing route groups or route patterns must not be selected in the following procedure.

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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**.
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**Related Procedures**

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# 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 location of the gateway 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 is 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 the X wildcard character to specify ranges of digits.
  - Step 6** Click **Next**.
  - Step 7** Repeat Steps 1 through 6 to add gateway information for the additional gateways.
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# Generating the External Route Plan

The following procedure describes how to generate the external route plan.

## Procedure

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- Step 1** Click **Next** to generate the external route plan.
- Step 2** Click **Cancel** to prevent the external route plan wizard from generating this route plan.



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

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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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# Finishing the External Route Plan

The following procedure describes how to finish creating an external route plan.

## Procedure

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- Step 1** Click **Finish** to complete the external route plan if the information shown on the external route plan wizard status report is correct.
- Step 2** 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.
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## Related Procedures

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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 Procedures**

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■ Deleting an External Route Plan