



## Configuring Translation Patterns

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The Cisco CallManager uses translation patterns to manipulate dialed digits before routing a call. In some cases, the dialed number is not the number that is used by the system. In other cases, the dialed number is not a number that is recognized by the Public Switched Telephone Network (PSTN).

Refer to the “Understanding Translation Patterns” section on page 27-1 for more detailed translation pattern information.

Use the following procedures to add, update, copy, or delete a translation pattern:

- Adding a Translation Pattern, page 27-2
- Updating a Translation Pattern, page 27-4
- Copying a Translation Pattern, page 27-5
- Deleting a Translation Pattern, page 27-6

## Understanding Translation Patterns

Digit manipulation and translation patterns are used frequently in cross-geographical distributed systems where, for instance, the office codes are not the same at all locations. In these situations, a uniform dialing plan can be created, and translation patterns can be applied to accommodate the unique office codes at each location.



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**Note** Translation patterns provide a level of routing indirection for other applications also. The previous explanation is just the most common application

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#### Related Topics

- Route Plan Overview, page 6-1
- Understanding Route Pattern Wildcards and Special Characters, page 6-7
- Understanding Closest-Match Routing, page 6-11
- Understanding Discard Digits Instructions, page 6-12

## Adding a Translation Pattern

This section describes how to add a translation pattern.

#### Before You Begin

Configure the following Cisco CallManager applications before adding a translation pattern:

- Partition
- Route Filter
- Calling Search Space

#### Procedure

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- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Route Plan > Translation Pattern**.
- Step 3** Enter the translation pattern, including numbers and wildcards (do not use spaces) in the Translation Pattern field. For example, 9.@ for typical local access, or 8XXX for a typical private network numbering plan.



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**Note** The directory route pattern, using the selected partition, route filter, and numbering plan combination, must be unique. Check the route pattern, translation pattern, directory number, call park number, call pickup number, or Meet Me number if you receive an error indicating duplicate entries.

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- Step 4** Select a partition from the Partition drop-down list box. Select None if you don't want to assign a partition.
- Step 5** Select a numbering plan from the Numbering Plan drop-down list box.
- Step 6** If your translation pattern includes the @ wildcard, select a route filter from the Route Filter drop-down list box. Selecting a route filter restricts certain number patterns. Route filters are optional. Refer to the “Understanding Route Pattern Wildcards and Special Characters” section on page 6-7, and the “Configuring Route Filters” section on page 23-1 for more information.
- Step 7** Select the calling search space for which you are adding a translation pattern from the Calling Search Space drop-down list box. This is an optional selection.
- Step 8** The Route Option designation indicates whether you want this translation pattern used for routing calls (such as 9.@ or 8[2-9}XX) or for blocking calls. Select “Route this pattern” or “Block this pattern” in the Route Option fields.
- Step 9** Check the boxes for Provide Outside Dial Tone. Urgent Priority is selected by default.



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**Note** All translation patterns are set with urgent priority and cannot be changed.

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- Step 10** Check the box for Use Calling Party's External Phone Number Mask if you want the full, external phone number used for calling line ID (CLID) on outgoing calls.
- Step 11** Enter a transformation mask value in the Calling Party Transform Mask field. Valid entries include the digits 0 through 9, the wildcard character X, and blank. If this field is blank and the preceding field is not checked, no calling party transformation takes place. See the “Understanding Calling Party Transform Settings” section on page 25-2 for more detailed information.
- Step 12** Select the discard digits instructions you want associated with this translation pattern from the Discard Digits drop-down list box.

**Step 13** Enter a transformation mask value in the Called Party Transform Mask field. Valid entries include the digits 0 through 9, the wildcard character X, and blank. If the field is blank, no transformation takes place. The dialed digits are sent exactly as dialed. Refer to the “Understanding Called Party Transform Settings” section on page 25-4 for more detailed information.

**Step 14** Enter prefix digits in the Prefix Digits (Outgoing Calls) field. Valid entries include the digits 0 through 9, #, \*, and blank.



**Note** The appended prefix digit does not affect which directory numbers route to the assigned device.

**Step 15** Click **Insert**. The translation pattern appears in the list on the left side of the page.

**Step 16** Click **New** and repeat Steps 1 through 15 to add more translation patterns.

#### Related Topics

- Updating a Translation Pattern, page 27-4
- Copying a Translation Pattern, page 27-5
- Deleting a Translation Pattern, page 27-6

## Updating a Translation Pattern

This section describes how to update a translation pattern.

#### Procedure

**Step 1** Open Cisco CallManager Administration.

**Step 2** Click **Route Plan > Translation Pattern**.

**Step 3** Select the translation pattern you want to update from the Translation Pattern list on the left side of the page.

**Step 4** Make the desired changes to the translation pattern and click **Update**. The page displays the updated translation pattern.



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**Note** The directory route pattern, using the selected partition, route filter, and numbering plan combination, must be unique. Check the route pattern, translation pattern, directory number, call park number, call pickup number, or Meet Me number if you receive an error indicating duplicate entries.

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**Step 5** Repeat Steps 3 and 4 to update more translation patterns.

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#### Related Topics

- Adding a Translation Pattern, page 27-2
- Copying a Translation Pattern, page 27-5
- Deleting a Translation Pattern, page 27-6

## Copying a Translation Pattern

This section describes how to copy a translation pattern.

#### Procedure

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- Step 1** Open Cisco CallManager Administration.
- Step 2** Click **Route Plan > Translation Pattern**.
- Step 3** Select the translation pattern you want to copy from the Translation Pattern list on the left side of the page.
- Step 4** Click **Copy**. The page displays the translation pattern with a Copy of... name in the Translation Pattern field.
- Step 5** Replace the name for this translation pattern in the Translation Pattern field.
- Step 6** Make appropriate changes to customize the new translation pattern and click **Insert**. The new translation pattern appears in the translation pattern list on the left side of the page.

- Step 7** To build another translation pattern that is similar to the current translation pattern, click **Copy**, enter a new translation pattern name, and repeat Steps 3 through 6.
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### Related Topics

- Route Plan Overview, page 6-1
- Understanding Translation Patterns, page 27-1
- Adding a Translation Pattern, page 27-2
- Updating a Translation Pattern, page 27-4
- Deleting a Translation Pattern, page 27-6

## Deleting a Translation Pattern

This section describes how to delete a translation pattern.

### Procedure

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- Step 1** Open Cisco CallManager Administration.
- Step 2** Click **Route Plan > Translation Pattern**.
- Step 3** Select the translation pattern you want to delete from the Translation Pattern list on the left side of the page.
- Step 4** Click **Delete**. A message displays stating that you are about to delete the selected translation pattern and that this action cannot be undone.
- Step 5** Click **OK** to continue, or **Cancel** to cancel the deletion.
- Step 6** Repeat Steps 3 through 5 to delete more translation patterns.
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**Related Topics**

- Adding a Translation Pattern, page 27-2
- Updating a Translation Pattern, page 27-4
- Copying a Translation Pattern, page 27-5

■ Deleting a Translation Pattern