



Configure Transformation Patterns

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Transformation Pattern Overview

Transformation patterns determine how the system manipulates the digits that were dialed in an incoming or outgoing call. You can configure transformation patterns when you need to change the calling or called number before the system sends it to the phone or the PSTN.

You can use transformation patterns to discard digits, prefix digits, add a calling party transformation mask, and control the presentation of the calling party number.

You can:

- Hit a Calling Party Transformation Pattern with a Called Party Transformation CSS.
- Hit a Called Party Transformation Pattern with a Calling Party Transformation CSS.

Transformation Pattern Configuration Task Flow

Procedure

	Command or Action	Purpose
Step 1	Configure Calling Party Transformation Patterns, on page 2	Use this procedure to transform the calling number. For example, you can configure a transformation pattern that replaces a caller's extension with the office's main number when calling the PSTN.
Step 2	Configure Called Party Transformation Patterns, on page 2	Use this procedure to transform the called number. For example, you can configure a transformation pattern that retains only the last five digits of a call dialed as a ten-digit number.

	Command or Action	Purpose
Step 3	Configure Transformation Profiles, on page 3	Optional: Perform this procedure only if you are using Cisco Intercompany Media Engine (Cisco IME). You must configure a transformation profile to convert dialed numbers into the E.164 format.

Configure Calling Party Transformation Patterns

Use this procedure to transform the calling number. For example, you can configure a transformation pattern that replaces a caller's extension with the office's main number when calling the PSTN.

Procedure

Step 1 From Cisco Unified CM Administration, choose **Call Routing > Transformation > Transformation Pattern > Calling Party Transformation Pattern**.

Step 2 Choose one of the following options:

- Click **Add New** to add a new calling party transformation pattern.
- Click **Find** and select an existing pattern.

Step 3 From the **Pattern** field, enter the pattern that you want to match to the calling party number.

Note For Outbound Calls:

The calling party transformation mask is selected based on the pre transform calling party number. (extension assigned to the IP Phone).

While selecting the calling party transformation mask on the SIP trunk, if the calling party number is transformed to a different number on either the route pattern/group, the pre transform calling number is always used to select the calling party transformation mask.

Whereas according to the Dialed Number Analyzer (DNA), the transformed number is used to select the calling party transformation mask. However, this is the wrong behavior of DNA.

Step 4 Complete the remaining fields in the **Calling Party Transformation Pattern Configuration** window. For more information on the fields and their configuration options, see Online Help.

Step 5 Click **Save**.

Configure Called Party Transformation Patterns

Use this procedure to transform the called number. For example, you can configure a transformation pattern that retains only the last five digits of a call dialed as a ten-digit number.

Procedure

- Step 1** From Cisco Unified CM Administration, choose **Call Routing > Transformation > Transformation Pattern > Called Party Transformation Pattern**.
- Step 2** Choose one of the following options:
- Click **Add New**, to add a new called party transformation pattern.
 - Click **Find** and select an existing pattern.
- Step 3** From the **Pattern** field, enter the pattern that you want to match to the called number.
- Step 4** Complete the remaining fields in the **Called Party Transformation Pattern Configuration** window. For more information on the fields and their configuration options, see the system Online Help.
- Step 5** Click **Save**.
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Configure Transformation Profiles

Perform this procedure only if you are using Cisco Intercompany Media Engine (Cisco IME). You must configure a transformation profile to convert dialed numbers into the E.164 format. The E.164 format includes the international "+" prefix; for example, "+14085551212".

Procedure

- Step 1** From Cisco Unified CM Administration, choose **Call Routing > Transformation > Transformation Profile**.
- Step 2** Choose one of the following options:
- Click **Add New**, to add a new transformation profile.
 - Click **Find** and choose a pattern from the resulting list, to modify the settings for an existing transformation profile.
- The **Transformation Profile Configuration** window appears.
- Step 3** Configure the fields in the **Transformation Profile Configuration** window. For more information on the fields and their configuration options, see the system Online Help.
- Step 4** Click **Save**.
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