Configure Geolocation and Location Conveyance

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Geolocation and Location Conveyance Overview

Use Geolocations to define the geographical location (or civic address) of devices that is used in policy decisions, such as whether a call from one phone to another is allowed. The Request for Comments (RFC) 4119 standard provides the basis for geolocations.

Use Location Conveyance to allow communication of geolocation information from one cluster to another, when a call is established and during a call.

Geolocation and Location Conveyance Task Flow

Procedure

	Command or Action	Purpose
Step 1	To Configure Geolocations, on page 2, perform the following subtasks: • Configure a Geolocation, on page 2 • Assign a Geolocation, on page 2 • Set the Default Geolocation, on page 3 • Configure Location Conveyance, on page 4	Configure geolocations to specify geographic locations. These are used to associate devices with regulatory features such as logical partitioning. Geolocations are used in policy decisions, such as in-country regulations.
Step 2	To Configure Geolocation Filters, on page 4, configure the following subtasks: • Configure a Geolocation Filter, on page 5 • Assign a Geolocation Filter, on page 5 • Set the Default Geolocation Filter, on page 6	Configure geolocation filters to choose which fields are used to create a geolocation identifier. This feature is used to make policy decisions on a subset of the geolocation objects. Geolocation filters define which of the geolocation objects should be used when comparing the geolocations of different devices. For example, a group of phones may be

	Command or Action	Purpose
		assigned identical geolocations, except for the room and floor in which they are located. Even though the actual geolocations of each phone differ, the filtered geolocation is the same.

Configure Geolocations

Procedure

	Command or Action	Purpose
Step 1	Configure a Geolocation, on page 2	Configure geolocations to specify geographic locations. These are used to associate devices with regulatory features such as logical partitioning. Geolocations are used in policy decisions, such as in-country regulations.
Step 2	Assign a Geolocation, on page 2	Assign a geolocation to a device or device pool.
Step 3	Set the Default Geolocation, on page 3	Specify a default geolocation for all devices and device pools in this cluster.
Step 4	(Optional) Configure Location Conveyance, on page 4	Configure location conveyance if you want to communicate geolocation information about devices across clusters.

Configure a Geolocation

Configure geolocations to specify geographic locations. These are used to associate devices with regulatory features such as logical partitioning. Geolocations are used in policy decisions, such as in-country regulations.

Procedure

Step 1 From Cisco Unified CM Administration, choose **System** > **Geolocation Configuration**.

Step 2 Click **Add New**.

Step 3 Enter a **Name** for the geolocation.

Step 4 Configure the fields on the **Geolocation Configuration** window. For more information on the fields and their configuration options, see the system Online Help.

Step 5 Click **Save**.

Step 6 Repeat this procedure to create additional geolocations.

Assign a Geolocation

Assign a geolocation to a device or device pool.

Procedure

Step 1 From Cisco Unified CM Administration, choose one of the following menu items:

- **Device** > **Phone**
- **Device** > **Trunk**
- **Device** > **Gateway**
- **System** > **Device Pool**

Step 2 Perform one of the following tasks:

- Click **Find** to modify the settings for an existing device or device pool. Enter search criteria, and then choose an existing device or device pool from the resulting list.
- Click **Add New** to add a new device or device pool. For devices, choose device types and protocols as needed and click **Next**.

Step 3 From the Geolocation drop-down list, choose a geolocation that you configured.

Step 4 Click **Save**.

Set the Default Geolocation

Specify a default geolocation for all devices and device pools in this cluster.

Before you begin

Assign a Geolocation, on page 2

Procedure

Step 1 From Cisco Unified CM Administration, choose **System** > **Enterprise Parameters**.

Step 2 From the **Default Geolocation** drop-down list, choose a Geolocation that you configured. The default value is **Unspecified**.

Step 3 Click **Save**.

Step 4 Click **Apply Config**.

Step 5 (Optional) If you need to override this default for a specific device or device pool, enter the value on either the **Device Configuration** or **Device Pool Configuration** window, and then click **Save**.

What to do next

- (Optional) Configure Location Conveyance, on page 4
- Configure Geolocation Filters, on page 4

Configure Location Conveyance

Configure location conveyance if you want to communicate geolocation information about devices across clusters.

Before you begin

- Configure a Geolocation, on page 2
- Assign a Geolocation, on page 2
- Set the Default Geolocation, on page 3

Procedure

Step 1 From Cisco Unified CM Administration, choose **Device** > **Trunk**.

Step 2 Do one of the following:

- Click **Find** and select an existing trunk.
- Click **Add New** to configure a new trunk.

Step 3 Complete the fields in the **Trunk Configuration** window. For more information on the fields and their configuration options, see the system Online Help.

Step 4 In the **Geolocation Information** area, select a **Geolocation** and **Geolocation Filter**.

Step 5 To enable Location Conveyance, check the **Send Geolocation Information** check box.

Step 6 Click **Save**.

Configure Geolocation Filters

Configure geolocation filters to choose which fields are used to create a geolocation identifier. This feature is used to make policy decisions on a subset of the geolocation objects. Geolocation filters define which of the geolocation objects should be used when comparing the geolocations of different devices. For example, a group of phones may be assigned identical geolocations, except for the room and floor in which they are located. Even though the actual geolocations of each phone differ, the filtered geolocation is the same.

Procedure

	Command or Action	Purpose
Step 1	Configure a Geolocation Filter, on page 5	Geolocation filters allow you to specify which fields are used to create a geolocation identifier. This feature is used to make policy decisions on a subset of the geolocation objects.
Step 2	Assign a Geolocation Filter, on page 5	
Step 3	Set the Default Geolocation Filter, on page 6	Configure the Default Geolocation Filter enterprise parameter to specify a default geolocation filter for a cluster. This parameter

	Command or Action	Purpose
		determines the default geolocation filter setting for all devices and device pools that are not associated with a geolocation filter.

Configure a Geolocation Filter

Geolocation filters allow you to specify which fields are used to create a geolocation identifier. This feature is used to make policy decisions on a subset of the geolocation objects.

Procedure

Step 1 From Cisco Unified CM Administration, choose **System** > **Geolocation Filter**.

Step 2 Click **Add New**.

Step 3 Enter a **Name** and **Description** for the filter.

Step 4 Check the check boxes that correspond to the items you want to use for logical partitioning decisions.

Step 5 Configure the fields on the **Geolocation Filter Configuration** window. For more information on the fields and their configuration options, see the system Online Help.

Step 6 Click **Save**.

Step 7 Repeat these steps to create additional geolocation filters.

Assign a Geolocation Filter

Procedure

Step 1 From Cisco Unified CM Administration, choose one of the following menu items:

- **Device** > **Phone**
- **Device** > **Trunk**
- **Device** > **Gateway**
- **System** > **Device Pool**

Step 2 Perform one of the following tasks:

- Click **Find** to modify the settings for an existing device or device pool. Enter search criteria and then choose an existing device or device pool from the resulting list.
- Click **Add New** to add a new device or device pool. For devices, choose device types and protocols as needed and click **Next**.

Step 3 From the **Geolocation Filter** drop-down list, choose a geolocation filter that you configured.

Step 4 Click **Save**.

Set the Default Geolocation Filter

Configure the Default Geolocation Filter enterprise parameter to specify a default geolocation filter for a cluster. This parameter determines the default geolocation filter setting for all devices and device pools that are not associated with a geolocation filter.

Before you begin

Assign a Geolocation Filter, on page 5

Procedure

Step 1 From Cisco Unified CM Administration, choose **System** > **Enterprise Parameters**.

Step 2 From the **Default Geolocation** drop-down list, choose a Geolocation that you configured. The default value is **Unspecified**.

Step 3 Click **Save**.

Step 4 Click **Apply Config**.

Step 5 (Optional) If you need to override this default for a specific device or device pool, specify the default geolocation filter value on either the **Device Configuration** or **Device Pool Configuration** window, and then click **Save**.