Install a National Numbering Plan

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National Numbering Plan Overview

Unified Communications Manager provides a default North American Numbering Plan (NANP). For countries with different dial plan requirements, you can install a Cisco International Dial Plan and use it to create a unique numbering plan that is specific to your requirements.

The numbering plan contains the Discard Digits Instructions (DDIs) and tags specific to that numbering plan. You can use these items when configuring call routing to create routing rules that are applicable to the numbering plan.

This chapter describes how to install a National Numbering Plan. For more information about using a national numbering plan, see the *Unified Communications Manager Dial Plan Deployment Guide* at http://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/products-maintenance-guides-list.html.

National Numbering Plan Prerequisites

If you are installing a National Numbering Plan for countries outside of North America, download the Cisco Option Package (COP) file that contains the international dial plans for the current release. The COP file uses the naming convention IDP v.*x*, and is available from the Cisco website:

- https://software.cisco.com/download/navigator.html

Place the file on an external FTP or SFTP server that Unified Communications Manager can access.

National Numbering Plan Installation Task Flow

Procedure

	Command or Action	Purpose
Step 1	Install the COP file, on page 2	**Optional**. To install a numbering plan for countries outside of North America, download the Cisco Option Package (COP) file that contains the international dial plans for the current release.
Step 2	Install a National Numbering Plan, on page 3	Install the national numbering plan on each Unified Communications Manager node in the cluster. Perform this procedure only if you are installing a National Numbering Plan for countries outside of North America.
Step 3	Restart the CallManager Service, on page 3	The changes take effect after you restart the service.

Install the COP file

Use this procedure to install a Cisco Option Package (COP) file that contains international dial plans.

Procedure

Step 1 Begin this procedure on the Unified Communications Manager publisher node. From Cisco Unified Communications OS Administration, choose **Software Upgrades** > **Install**.
The **Software Installation/Upgrade** window appears.

Step 2 In the **Source** field, choose **Remote File System**.

Step 3 Configure the fields on the **Software Installation/Upgrade** window. See the Related Topics for more information about the fields and their configuration options.

Step 4 Click **Next**.
The window refreshes with a list of available software options and upgrades.

Step 5 From the **Options/Upgrades** drop-down list, choose the **DP COP** file and click **Next**.
The **Installation File** window opens and downloads the file from the FTP server. The window displays the progress of the download.

Step 6 When the **Checksum** window appears, verify the checksum value against the checksum for the file that you downloaded.

Step 7 Click **Next** to proceed with the software upgrade.
A warning message displays the DP COP file that you selected to install.

Step 8 Click **Install**.
The **Install Status** window appears.

Step 9 Click **Finish**.

Step 10 Repeat this procedure on the Unified Communications Manager subscriber nodes. You must install the COP file on all the nodes in the cluster.

Related Topics

COP File Installation Fields, on page 3

COP File Installation Fields

Field	Description
Directory	Enter the directory where the COP file is located.
Remote Server	Enter the host name or IP address of the server where COP file is located.
Remote User	Enter the user name for the remote server.
Remote Password	Enter the password for the remote server.
Transfer Protocol	Select a protocol to use when connecting with the remote server.

Install a National Numbering Plan

Perform this procedure only if you are installing a national numbering plan for countries outside of North America.

Install the national numbering plan on each Unified Communications Manager node in the cluster. Begin with the Unified Communications Manager publisher node.

Procedure

Step 1 From Cisco Unified Communications Manager Administration, choose **Call Routing** > **Dial Plan Installer**.

Step 2 Enter search criteria and click **Find**.

Step 3 Choose the dial plan version that you want to install from the **Available Version** drop-down list.

Step 4 Click **Install**.
The Status displays that the dial plan has been installed.

Step 5 Repeat this procedure for every subscriber node in the cluster.

Restart the CallManager Service

Procedure

Step 1 From the Cisco Unified Serviceability interface, choose **Tools** > **Control Center - Feature Services**.

Step 2 Choose the Unified Communications Manager server from the **Servers** drop-down list.
In the CM Services area, Cisco CallManager displays in the **Service Name** column.

Step 3 Click the radio button that corresponds to the Cisco CallManager service.

Step 4 Click **Restart**.
The service restarts and displays the message, `Service Successfully Restarted`.