



System Configuration Overview

For best results when configuring a complete Cisco IP telephony system, start with the system-level components and work toward the individual devices. For example, you have to configure the appropriate device pools, route patterns, and calling search spaces before you can use those components to configure phones and lines.

This chapter presents an overall flow, or order, for configuring the components of your Cisco IP telephony network. It covers the following topics:

- [Basic Configuration Flow, page 3-1](#)
- [Where to Find More Information, page 3-5](#)

Basic Configuration Flow

[Table 3-1](#) lists the general steps involved in configuring a complete IP telephony system. If you are not using a particular feature or component, you can skip that step. You have some flexibility in the order for performing these configuration steps, and in some cases you might have to alternate between steps or return to a given step several times to complete your configuration.

Table 3-1 Configuration Overview Checklist

Configuration Steps		Procedures and related topics
Step 1	Install the Cisco CallManager software on your servers, and configure the servers as needed for TFTP, database publisher, and database subscriber services.	Refer to <i>Installing Cisco CallManager Release 3.1</i> and to the “Server Configuration” section in the <i>Cisco CallManager Administration Guide</i> .
Step 2	Configure system-level settings: <ul style="list-style-type: none"> • Cisco CallManager groups • Date/time groups • Regions • Device pools • Device defaults • Enterprise parameters • Locations 	See the “System-Level Configuration Settings” section on page 4-1.
Step 3	Design and configure your dialing plan: <ul style="list-style-type: none"> • Partitions • Calling search spaces • Route filters • Route groups • Route lists • Route patterns • Translation patterns 	See the “Partitions and Calling Search Spaces” section on page 12-1 and the “Understanding Route Plans” section on page 13-1.

Table 3-1 Configuration Overview Checklist (continued)

Configuration Steps	Procedures and related topics
<p>Step 4 Configure media resources:</p> <ul style="list-style-type: none"> • Conference bridges • Transcoders • Media termination points • Music on hold • Media resource groups • Media resource group lists 	<p>See the “Media Resource Management” section on page 16-1.</p> <p>Also refer to the “Media Resource Group Configuration” section in the <i>Cisco CallManager Administration Guide</i>.</p>
<p>Step 5 Install and configure one of the following voice messaging systems:</p> <ul style="list-style-type: none"> • External (non-Cisco) voice messaging system • Cisco Unity voice messaging system • Cisco uOne voice messaging system 	<p>See one of the following sections:</p> <ul style="list-style-type: none"> • “SMDI Voice Mail Integration” section on page 22-1 • “Cisco uOne Voice Messaging Integration” section on page 24-1

Table 3-1 Configuration Overview Checklist (continued)

Configuration Steps	Procedures and related topics
<p>Step 6 Configure system-wide features:</p> <ul style="list-style-type: none"> • Call park • Call pickup and group call pickup • Cisco IP phone services • Extension mobility • Cisco WebAttendant • Custom phone rings 	<p>See the following sections:</p> <ul style="list-style-type: none"> • “Call Park” section on page 26-1 • “Call Pickup and Group Call Pickup” section on page 27-1 • “Cisco IP Phone Services” section on page 28-1 • “Extension Mobility and Phone Login Features” section on page 29-1 • “Understanding Cisco WebAttendant” section on page 30-1 • “Custom Phone Rings” section on page 31-1
<p>Step 7 Install and configure the gateways.</p>	<p>See the “Understanding Voice Gateways” section on page 32-1.</p>
<p>Step 8 Configure and install the phones; then, associate users with the phones.</p>	<p>See the “Cisco IP Phones” section on page 33-1 and the “Managing User Directory Information” section on page 15-1.</p>
<p>Step 9 Enable computer telephony integration (CTI) application support; then, install and configure the desired CTI applications.</p>	<p>See the “Computer Telephony Integration” section on page 34-1.</p>

Where to Find More Information

Related Topics

- See [Table 3-1](#).

Additional Cisco Documentation

- *Installing Cisco CallManager Release 3.1*
- *Cisco CallManager Administration Guide*

■ Where to Find More Information