



Auto-Registration

Auto-registration automatically assigns directory numbers to new devices as they connect to the IP telephony network. This section covers the following topics:

- [Understanding Auto-Registration, page 11-1](#)
- [Auto-Registration Configuration Checklist, page 11-2](#)
- [Where to Find More Information, page 11-4](#)

Understanding Auto-Registration

Use auto-registration if you want Cisco CallManager to assign directory numbers automatically to new phones when you plug these phones into your network.



Caution

Cisco CallManager disables auto-registration by default. Enabling auto-registration carries a security risk in that “rogue” phones can automatically register with Cisco CallManager. You should enable auto-registration only for brief periods when you want to perform bulk phone adds.

Cisco CallManager disables auto-registration by default to prevent unauthorized connections to your network.

When you enable auto-registration, you specify a range of directory numbers that Cisco CallManager can assign to new phones as they connect to your network. As new phones connect to the network, Cisco CallManager assigns the next available directory number in the specified range. Once a directory number is assigned to

an auto-registered phone, you can move the phone to a new location, and its directory number remains the same. If all of the auto-registration directory numbers are consumed, no additional phones can auto-register with Cisco CallManager.

New phones auto-register with the primary Cisco CallManager in the Cisco CallManager group that has the Auto-Registration Cisco CallManager Group setting enabled. That Cisco CallManager automatically assigns each auto-registered phone to a default device pool based on the device type (see the [“Device Defaults” section on page 4-9](#)). After a phone auto-registers, you can update its configuration and assign it to a different device pool and a different Cisco CallManager (see the [“Device Pools” section on page 4-7](#)).

Auto-Registration Configuration Checklist

[Table 11-1](#) lists general steps and guidelines for using auto-registration.

Table 11-1 Auto-Registration Configuration Checklist

Configuration Steps		Procedures and related topics
Step 1	<p>Configure only one Cisco CallManager in the cluster to use for auto-registration.</p> <p>Always enable or disable auto-registration on this Cisco CallManager only. If you want to shift the auto-registration function to another Cisco CallManager in the cluster, you must reconfigure the appropriate Cisco CallManagers, the Default Cisco CallManager Group, and possibly the default device pools.</p>	<p>Refer to the “Cisco CallManager Configuration” section in the <i>Cisco CallManager Administration Guide</i>.</p>
Step 2	<p>Configure the Default Cisco CallManager Group as the auto-registration group. Choose the auto-registration Cisco CallManager from Step 1 as the primary Cisco CallManager in this group.</p>	<p>See the “Cisco CallManager Groups” section on page 4-1.</p> <p>Refer to the “Cisco CallManager Group Configuration” section in the <i>Cisco CallManager Administration Guide</i>.</p>

Table 11-1 Auto-Registration Configuration Checklist (continued)

Configuration Steps		Procedures and related topics
Step 3	Configure a calling search space specifically for auto-registration. For example, you can use the auto-registration calling search space to limit auto-registered phones to internal calls only.	See the “Partitions and Calling Search Spaces” section on page 12-1. Refer to the “Calling Search Space Configuration” section in the <i>Cisco CallManager Administration Guide</i> .
Step 4	Configure the Default device pool for auto-registration by assigning the Default Cisco CallManager Group and auto-registration calling search space to it. If you are configuring a separate default device pool for each device type, assign the Default Cisco CallManager Group and auto-registration calling search space to each of the default device pools.	See the “System-Level Configuration Settings” section on page 4-1. Refer to the “Device Pool Configuration” and “Device Defaults Configuration” sections in the <i>Cisco CallManager Administration Guide</i> .
Step 5	Enable auto-registration only during brief periods when you want to install and auto-register new devices (preferably when overall system usage is at a minimum). During other periods, turn auto-registration off to prevent unauthorized devices from registering with Cisco CallManager.	Refer to the “Enabling Auto-Registration” and “Disabling Auto-Registration” sections in the <i>Cisco CallManager Administration Guide</i> .
Step 6	Install the devices that you want to auto-register.	Refer to the installation instructions that come with your IP phones and gateways.
Step 7	Reconfigure the auto-registered devices and assign them to their permanent device pools.	Refer to the <i>Bulk Administration Tool Administration Guide</i> or the “Cisco IP Phone Configuration” and “Gateway Configuration” sections in the <i>Cisco CallManager Administration Guide</i> .

Where to Find More Information

Related Topics

- [System-Level Configuration Settings](#), page 4-1
- [Redundancy](#), page 6-1
- [Cisco CallManager Configuration](#), *Cisco CallManager Administration Guide*
- [Cisco CallManager Group Configuration](#), *Cisco CallManager Administration Guide*
- [Device Pool Configuration](#), *Cisco CallManager Administration Guide*

Additional Cisco Documentation

- *Bulk Administration Tool Administration Guide*