



## Auto-Registration

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

By default, auto-registration is disabled to prevent unauthorized connections to your network. Use the following procedures to enable or disable auto-registration and to reuse the auto-registration directory numbers:

- Enabling Auto-Registration, page 3-2
- Disabling Auto-Registration, page 3-4
- Reusing Auto-Registration Numbers, page 3-5

When you enable auto-registration, you specify a range of directory numbers for Cisco CallManager to assign to new devices connected to your network. As new devices are connected 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 device, you can move the device to a new location and its directory number remains the same. If all of the auto-registration directory numbers are consumed, no additional devices can auto-register with Cisco CallManager.




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**Note** New devices auto-register with the primary Cisco CallManager in the Auto-registration Cisco CallManager Group (see the “Cisco CallManager Group” section on page 10-1). That Cisco CallManager automatically assigns each auto-registered device to a default device pool based on the device type (see the “Device Defaults” section on page 12-1). After a device has auto-registered, you can update its configuration and assign it to a different device pool and a different Cisco CallManager (see the “Device Pool” section on page 14-1).

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## Enabling Auto-Registration

This section describes how to enable auto-registration for devices.

### Procedure

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- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **System > Cisco CallManager**.
- Step 3** From the list of Cisco CallManagers, select the Cisco CallManager where you want to enable auto-registration.
- Step 4** Enter the following information in the section for Auto-registration Information:

Field Name	Description
Starting Directory Number	Enter the first directory number to use for auto-registration of devices. If you set the starting and ending directory numbers to the same value, auto-registration is disabled.
Ending Directory Number	Enter the last directory number to use for auto-registration of devices. If you set the starting and ending directory numbers to the same value, auto-registration is disabled.

Field Name	Description
Partition	Select the partition to which auto-registered directory numbers belong. If you are not using partitions, select None.
External Phone Number Mask	Specify the mask used to format caller ID information for external (outbound) calls made from the auto-registered devices. The mask can contain up to 50 characters. Enter the literal digits that you want to appear in the caller ID information, and use Xs to represent the directory number of the auto-registered device. For example, if you specify a mask of 972813XXXX, an external call from extension 1234 displays a caller ID number of 9728131234.
Auto-registration Disabled on this Cisco CallManager	<p>If you enter starting and ending directory numbers for auto-registration, this check mark is automatically turned off and auto-registration is enabled.</p> <p>To disable auto-registration for this Cisco CallManager, select this check mark and turn it on.</p>

- Step 5** Click **Update** to save any changes in the database.
- Step 6** Repeat Steps 3 through 5 for each Cisco CallManager where you want to enable auto-registration. There can be only one primary Cisco CallManager for auto-registration, but you can designate other Cisco Call Managers as backups for purposes of auto-registration. See the “Redundancy” section on page 2-1.
- Step 7** Select **System > Cisco CallManager Group**.
- Step 8** From the list of Cisco CallManager groups, select the group that is enabled for auto-registration. (In most systems, the name of this group is Default.) This is the default Cisco CallManager group for devices that auto-register. Make sure the *Selected* list for this group contains the Cisco CallManagers you configured for auto-registration in Step 3.
- Step 9** If you made any changes to the group configuration, click **Update** to save the changes in the database.
- Step 10** Select **System > Device Pool**.

- Step 11** From the list of device pools, select one of the default device pools assigned in the Device Defaults (see the “Device Defaults” section on page 12-1). Cisco CallManager assigns each auto-registered device to a default device pool based on the device type.
- Step 12** From the drop-down list box for Cisco CallManager Group, select the Cisco CallManager group you configured for auto-registration in Step 8. This step assigns the default device pool to the default Cisco CallManager group for auto-registration.
- Step 13** From the drop-down list box for Calling Search Space for Auto-Registration, select the calling search space to assign to the devices in this device pool that auto-register with Cisco CallManager. The calling search space specifies the route partitions used by the devices in the pool.
- Step 14** Click **Update** to save the device pool changes in the database.
- Step 15** Repeat Step 11 through Step 14 for each device pool listed in the Device Defaults.
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## Disabling Auto-Registration

This section describes how to disable auto-registration for devices.

### Procedure

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- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **System > Cisco CallManager**.
- Step 3** From the Cisco CallManager list, select the Cisco CallManager where you want to disable auto-registration.
- Step 4** Click the Auto-registration Disabled check box and turn it *on* to disable auto-registration for this Cisco CallManager.



**Note** You can also disable auto-registration by setting the Starting Directory Number and Ending Directory Number to the same value.

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- Step 5** Click **Update** to save the changes in the database.
- Step 6** Repeat Steps 3 through 5 for each Cisco CallManager where you want to disable auto-registration.
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## Reusing Auto-Registration Numbers

When you connect a new device to the network, Cisco CallManager assigns the next available (unused) auto-registration directory number to that device. If you manually change the directory number of an auto-registered device, or if you delete that device from the database, Cisco CallManager can reuse the auto-registration directory number of that device.

When a device attempts to auto-register, Cisco CallManager searches the range of auto-registration numbers you specified and tries to find the next available directory number to assign to the device. It begins the search with the next directory number in sequence after the last one assigned. If it reaches the ending directory number in the range, Cisco CallManager continues to search from the starting directory number in the range.

You can use the following procedure to reset the range of auto-registration directory numbers and force Cisco CallManager to search from the starting number in the range.

### Procedure

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- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **System > Cisco CallManager**.
- Step 3** Select the Cisco CallManager where you want to reset auto-registration.
- Step 4** Write down the current settings for Starting Directory Number and Ending Directory Number.
- Step 5** Click **Auto-registration Disabled on this Cisco CallManager**.



### Caution

New devices cannot auto-register while auto-registration is disabled.

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**Reusing Auto-Registration Numbers**

- Step 6** Click **Update**.
- Step 7** Set the Starting Directory Number and Ending Directory Number to their previous values (or to new values if desired).
- Step 8** Click **Update**.
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