



Configure IPv6

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Configure IPv6 Overview

You can use IPv6 for your external interfaces on IM and Presence Service even though the connection between IM and Presence Service and Cisco Unified Communications Manager uses IPv4.

If you configure IPv6 for any of the following items on the IM and Presence Service node, the node will not accept incoming IPv4 packets and will not automatically revert to using IPv4:

- connection to an external database
- connection to an LDAP server
- connection to an Exchange server
- federation deployments

For federation, you must enable IM and Presence Service for IPv6 if you need to support federated links to a foreign Enterprise that is IPv6 enabled. This is true even if there is an ASA installed between the IM and Presence Service node and the federated Enterprise. The ASA is transparent to the IM and Presence Service node.

For more information about using the Command Line Interface to configure IPv6 parameters, see the *Administration Guide for Cisco Unified Communications Manager* and the *Command Line Interface Guide for Cisco Unified Communications Solutions* at <http://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/products-maintenance-guides-list.html>.

Configure IPv6 Task Flow

Procedure

	Command or Action	Purpose
Step 1	Enable IPv6 on Eth0 for IM and Presence Service, on page 2	Enable IPv6 on the Eth0 port of each IM and Presence Service node in the cluster. You must reboot each node to apply the changes.
Step 2	Enable IPv6 Enterprise Parameter, on page 3	After you enable IPv6 on the Eth0 port, you must enable the IPv6 enterprise parameter for the IM and Presence Service cluster.
Step 3	Restart Services , on page 3	You must restart IM and Presence services to apply the changes.
Step 4	Assign IPv6 Addresses to IM and Presence Nodes, on page 4	Assign IPv6 addresses to your IM and Presence Service nodes.

Enable IPv6 on Eth0 for IM and Presence Service

Use Cisco Unified IM and Presence Operating System Administration GUI to enable IPv6 on the Eth0 port of each IM and Presence Service node in the cluster.

Procedure

Step 1 In **Cisco Unified IM and Presence OS Administration**, choose **Settings > IP > Ethernet IPv6**.

Step 2 In the Ethernet IPv6 Configuration window, check the **Enable IPv6** check box.

Step 3 Choose the **Address Source**:

- Router Advertisement
- DHCP
- Manual Entry

If you selected Manual Entry, enter the **IPv6 Address**, **Subnet Mask**, and the **Default Gateway** values.

Step 4 Check the **Update with Reboot** check box.

Tip Do not check the **Update with Reboot** check box if you want to manually reboot the node at a later time, such as during a scheduled maintenance window; however, the changes you made do not take effect until you reboot the node.

Step 5 Click **Save**.

If you checked the **Update with Reboot** check box, the node reboots and the changes are applied.

What to do next

[Enable IPv6 Enterprise Parameter, on page 3](#)

Enable IPv6 Enterprise Parameter

Use Cisco Unified CM IM and Presence Administration to enable the IPv6 enterprise parameter for the IM and Presence Service cluster.

Before you begin

[Enable IPv6 on Eth0 for IM and Presence Service, on page 2](#)

Procedure

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- Step 1** In **Cisco Unified CM IM and Presence Administration**, choose **System > Enterprise Parameters**.
 - Step 2** In the **Enterprise Parameters Configuration** window, choose **True** in the IPv6 panel.
 - Step 3** Click **Save**.
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What to do next

[Restart Services , on page 3](#) to apply the changes.

Restart Services

Use this procedure to restart IM and Presence services after you enable the IPv6 enterprise parameter for the cluster.



Tip To monitor system restart notifications using Cisco Unified CM IM and Presence Administration, select **System > Notifications**.

Before you begin

[Enable IPv6 Enterprise Parameter, on page 3](#)

Procedure

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- Step 1** From Cisco Unified IM and Presence Serviceability, choose **Tools > Control Center - Network Services**.
 - Step 2** From the **Server** list, choose the node on which you want to reactivate services and click **Go**.
 - Step 3** In the **IM and Presence Services** area, select **Cisco XCP Router**.
 - Step 4** Click **Restart**.
 - Step 5** From the **Related Links** drop-down list, select **Service Activation** and click **Go**.
 - Step 6** In the **IM and Presence Services** area, select the following services:

- Cisco SIP Proxy
- Cisco Presence Engine

Step 7 Click **Save**.

Assign IPv6 Addresses to IM and Presence Nodes

Use this procedure in Cisco Unified Communications Manager to assign your IM and Presence nodes IPv6 addresses.

Before you begin

You must also enable the IPv6 Eth0 port in Cisco Unified OS Administration, and enable the IPv6 enterprise parameter.

Procedure

- Step 1** Log in to the Cisco Unified Communications Manager publisher node
- Step 2** From Cisco Unified CM Administration, choose **System > Server**.
- Step 3** Complete one of the following tasks:
- To add a new server, click **Add New**.
 - To update an existing server, click on the server that you want to edit.
- Step 4** If you are adding a new server, from the **Server Type** drop-down menu, select **CUCM IM and Presence** and click **Next**.
- Step 5** Enter the **IPv6 Address** for the server.
- Step 6** Click **Save**.
- Step 7** Repeat for each IM and Presence Service cluster node.
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Disable IPv6 on Eth0 for IM and Presence Service

If you want to disable IPv6, use the **Cisco Unified IM and Presence Operating System Administration** GUI to disable IPv6 on the Eth0 port of each IM and Presence Service node in the cluster that you do not want to use IPv6. You must reboot the node to apply the changes.



Note If you do not want any of the nodes in the cluster to use IPv6, make sure the IPv6 enterprise parameter is disabled for the cluster.

Procedure

Step 1 In **Cisco Unified CM IM and Presence OS Administration**, choose **Settings > IP > Ethernet IPv6**.

Step 2 In the Ethernet IPv6 Configuration window, uncheck the **Enable IPv6** check box.

Step 3 Check the **Update with Reboot** check box.

Tip Do not check the **Update with Reboot** check box if you want to manually reboot the node at a later time, such as during a scheduled maintenance window; however, the changes you made do not take effect until you reboot the node.

Step 4 Click **Save**.

If you checked the **Update with Reboot** check box, the node reboots and the changes are applied.
