Main page: Cisco Unified MeetingPlace, Release 7.0

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How to Configure the Cisco IOS Gatekeeper

Perform one of the following tasks, depending on which device provides dial plan resolution for your network:

- Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided By Gatekeeper
- Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided by Cisco Unified Communications Manager

Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided By Gatekeeper

Choose this configuration option if the Cisco IOS gatekeeper provides dial plan resolution for all devices in your network.

Before You Begin

- Configure voice call control. See How to Configure Call Control for Voice Conferencing.
- Configure the gatekeeper Cisco Unified Communications Manager. For instructions on adding the gatekeeper, see the Cisco Unified Communications Manager online help.
- You perform this task in the Cisco IOS command-line interface (CLI) of the router. For more information about the Cisco IOS commands used in this procedure, see the *Cisco IOS Commands Master List* for your Cisco IOS release.

Procedure

1. On the Cisco router, enter privileged EXEC mode or any other security level set by a system administrator. Enter your password if prompted.
   `Router# enable`
2. Enter global configuration mode.
   `Router# configure terminal`
3. Enter gatekeeper configuration mode.
   `Router# gatekeeper`
4. Define the zone controlled by the gatekeeper.
   `Router(config-gk)# zone local gk-zone-name domain-name`
5. Specify which subnets the gatekeeper will accept discovery and registration messages sent by endpoints in those subnets.
   `Router(config-gk)# no zone subnet gk-zone-name default enable`
   `Router(config-gk)# zone subnet gk-zone-name subnet1-address{/bits-in-mask | mask-address} enable`
   `Router(config-gk)# zone subnet gk-zone-name subnet2-address{/bits-in-mask | mask-address} enable`
6. Define a technology prefix, which is stripped before checking for the zone prefix. Configure calls to hop off at the gatekeeper, regardless of the zone prefix in the destination address. The **default-technology** option specifies to use gateways registering with this prefix option as the default for routing any addresses that are otherwise unresolved.
   `Router(config-gk)# gw-type-prefix type-prefix hopoff gk-zone-name default-technology`
7. Disable proxy communications with local terminals for calls between local and remote zones.
   `Router(config-gk)# no use-proxy gk-zone-name default inbound-to terminal`
   `Router(config-gk)# no use-proxy gk-zone-name default outbound-from terminal`
8. Enable the gatekeeper.
   `Router(config-gk)# no shutdown`

Example

```
!

gatekeeper
```

```
zone local mp2-video example.com

no zone subnet mp2-video default enable

zone subnet mp2-video 10.20.120.50/32 enable

zone subnet mp2-video 10.10.1.0/24 enable

gw-type-prefix 2#* hopoff mp2-video default-technology

no use-proxy mp2-video default inbound-to terminal

no use-proxy mp2-video default outbound-from terminal

no shutdown

 !
```

What to Do Next

Proceed to one of the following sections:

- Verifying Basic Voice and Video Conferencing Using the Telephone User Interface
- Verifying Basic Voice and Video Conferencing Using the End-User Web Interface

Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided by Cisco Unified Communications Manager

Choose this configuration option if the following are true:

- All H.323 video endpoints register to this Cisco IOS gatekeeper.
- Cisco Unified Communications Manager provides dial plan resolution and becomes the master call-control point for all devices in your network.

Before You Begin

- Configure voice call control. See How to Configure Call Control for Voice Conferencing.
- Add this gatekeeper to Cisco Unified Communications Manager. For instructions on adding the gatekeeper, see the Cisco Unified Communications Manager online help.
- You perform this task in the Cisco IOS command-line interface (CLI) of the router. For more information about the Cisco IOS commands used in this procedure, see the *Cisco IOS Commands*

Master List for your Cisco IOS release.

Procedure

1. On the Cisco router, enter privileged EXEC mode or any other security level set by a system administrator. Enter your password if prompted.
   `Router# enable`
2. Enter global configuration mode.
   `Router# configure terminal`
3. Enter gatekeeper configuration mode.
   `Router# gatekeeper`
4. Define the zone controlled by the gatekeeper. Specify which gatekeeper interface to use for Registration, Admission, and Status (RAS) signaling. Force all intra-zone calls, in addition to calls that enter and leave the zone, to use this gatekeeper.
   `Router(config-gk)# zone local gk-zone-name domain-name ras-IP-address invia gk-zone-name outvia gk-zone-name enable-intrazone`
5. Define a technology prefix that matches what you configure for the H.323 endpoints in Cisco Unified Communications Manager. The **default-technology** option specifies to use gateways registering with this prefix option as the default for routing any addresses that are otherwise unresolved.
   `Router(config-gk)# gw-type-prefix type-prefix default-technology`
6. Disable proxy communications with local terminals for calls between local and remote zones.
   `Router(config-gk)# no use-proxy local-zone-name default inbound-to terminal`
   `Router(config-gk)# no use-proxy local-zone-name default outbound-from terminal`
7. Enable the gatekeeper.
   `Router(config-gk)# no shutdown`

Example

```
 !

gatekeeper

zone local MP-Zone1 example.net 192.168.2.50 invia MP-Zone1 outvia
MP-Zone1 enable-intrazone

gw-type-prefix 1#* default-technology

no use-proxy MP-Zone1 default inbound-to terminal

no use-proxy MP-Zone1 default outbound-from terminal

no shutdown

 !
```

What To Do Next

Proceed to Configuring Cisco Unified Communications Manager 6.1 or a Later Release: H.323 Endpoints.

Configuring Cisco Unified Communications Manager 6.1 or a Later Release: H.323 Endpoints

Perform this task only if Cisco Unified Communications Manager provides dial plan resolution for your network.

Before You Begin

- Complete Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided by Cisco Unified Communications Manager.
- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Procedure

1. Go to **http://<*ccm-server*>/**, where <*ccm-server*> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **Device > Phone**.
4. (Optional) To display a list of existing phone entries, click **Find**.
5. Click **Add New**.
6. Select **H.323 Client** in the Phone Type field.
7. Click **Next**.
8. Configure the fields described in Table: Fields for Adding an H.323 Endpoint in Cisco Unified Communications Manager 6.1 or a Later Release.

Table: Fields for Adding an H.323 Endpoint in Cisco Unified Communications Manager 6.1 or a Later Release

Field	Action
Device Name	Enter the IP address of the H.323 endpoint.
Device Pool	Select **Default**.

Outgoing Caller ID Pattern	Enter the extension or phone number of the H.323 endpoint.
Gatekeeper Name	Select the gatekeeper that you configured in Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided by Cisco Unified Communications Manager.
E.164	Enter the E.164 phone number used by the H.323 endpoint.
Technology Prefix	Enter the technology prefix (*type-prefix*) that you configured in Step 5 in the Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided by Cisco Unified Communications Manager.
Zone	Enter the zone name (*gk-zone-name*) that you configured in Step 4 in the Configuring the Cisco IOS Gatekeeper: Dial Plan Resolution Provided by Cisco Unified Communications Manager.

9. Configure all other required fields appropriately for your current deployment.

   Tip: For field descriptions, click **Help > This Page**.

10. Click **Save**.

11. Click **OK** to any pop-up dialog box messages that you see.

12. Repeat this procedure to add each H.323 endpoint to Cisco Unified Communications Manager.

What to Do Next

Proceed to one of the following sections:

- Verifying Basic Voice and Video Conferencing Using the Telephone User Interface
- Verifying Basic Voice and Video Conferencing Using the End-User Web Interface

Table: Fields for Adding an H.323 Endpoint in Cisco Unified Communications Manager 6.1 or a Later Release