



Configuring Presence Service

Last Updated: November 26, 2007

This module describes presence support in a Cisco Unified Communications Manager Express (Cisco Unified CME) system.

Finding Feature Information in This Module

Your Cisco Unified CME version may not support all of the features documented in this module. For a list of the versions in which each feature is supported, see the [“Feature Information for Presence Service” section on page 905](#).

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Prerequisites for Presence Service

- Cisco Unified CME 4.1 or a later version.
- Cisco Unified IP Phones 7911G, 7941G, 7941GE, 7961G, 7961GE, 7970G, and 7971GE require firmware load 8.2(1) or a later version.

Restrictions for Presence Service

- Presence features such as Busy Lamp Field (BLF) notification are supported for SIP trunks only; these features are not supported on H.323 trunks.
- Presence requires that SIP phones are configured with a directory number (using **dn** keyword in **number** command); direct line numbers are not supported.

Information About Presence Service

To configure presence service in a Cisco Unified CME system, you should understand the following concept:

- [Presence Service, page 886](#)

Presence Service

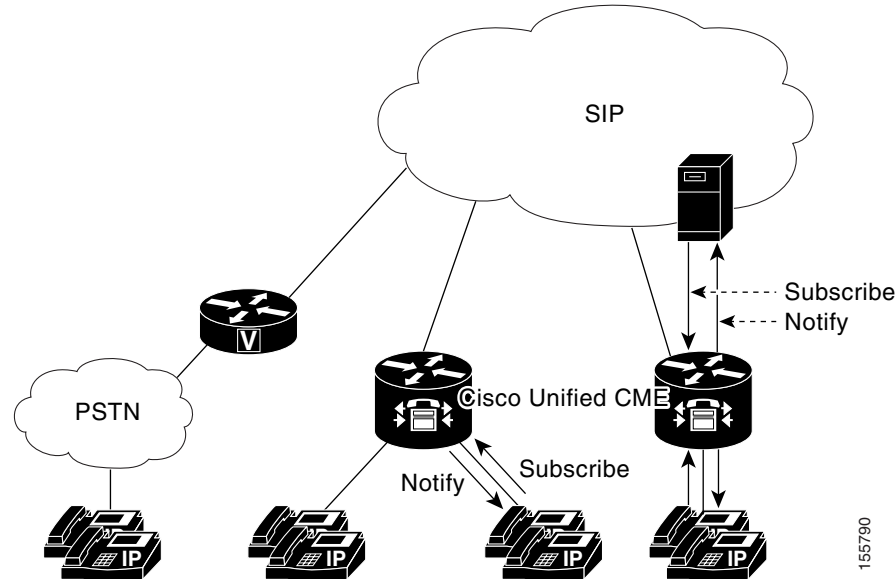
A presence service, as defined in RFC 2778 and RFC 2779, is a system for finding, retrieving, and distributing presence information from a source, called a presence entity (presentity), to an interested party called a watcher. When you configure presence in a Cisco Unified CME system with a SIP WAN connection, a phone user, or watcher, can monitor the real-time status of another user at a directory number, the presentity. Presence enables the calling party to know before dialing whether the called party is available. For example, a directory application may show that a user is busy, saving the caller the time and inconvenience of not being able to reach someone.

Presence uses SIP SUBSCRIBE and NOTIFY methods to allow users and applications to subscribe to changes in the line status of phones in a Cisco Unified CME system. Phones act as watchers and a presentity is identified by a directory number on a phone. Watchers initiate presence requests (SUBSCRIBE messages) to obtain the line status of a presentity. Cisco Unified CME responds with the presentity's status. Each time a status changes for a presentity, all watchers of this presentity are sent a notification message. SIP phones and trunks use SIP messages; SCCP phones use presence primitives in SCCP messages.

Presence supports Busy Lamp Field (BLF) notification features for speed-dial buttons and directory call lists for missed calls, placed calls, and received calls. SIP and SCCP phones that support the BLF speed-dial and BLF call-list features can subscribe to status change notification for internal and external directory numbers.

[Figure 53](#) shows a Cisco Unified CME system supporting BLF notification for internal and external directory numbers. If the watcher and the presentity are not both internal to the Cisco Unified CME router, the subscribe message is handled by a presence proxy server.

Figure 53 *BLF Notification Using Presence*



The following line states display through BLF indicators on the phone:

- Line is idle—Displays when this line is not being used.
- Line is in-use—Displays when the line is in the ringing state and when a user is on the line, whether or not this line can accept a new call.
- BLF indicator unknown—Phone is unregistered or this line is not allowed to be watched.

Cisco Unified CME acts as a presence agent for internal lines (both SIP and SCCP) and as a presence server for external watchers connected through a SIP trunk, providing the following functionality:

- Processes SUBSCRIBE requests from internal lines to internal lines. Notifies internal subscribers of any status change.
- Processes incoming SUBSCRIBE requests from a SIP trunk for internal SCCP and SIP lines. Notifies external subscribers of any status change.
- Sends SUBSCRIBE requests to external presentities on behalf of internal lines. Relays status responses to internal lines.

Presence subscription requests from SIP trunks can be authenticated and authorized. Local subscription requests cannot be authenticated.

For configuration information, see the [“How to Configure Presence Service” section on page 887](#).

How to Configure Presence Service

This section contains the following tasks:

- [Enabling Presence for Internal Lines, page 888](#)
- [Enabling a Directory Number to be Watched, page 889](#)
- [Enabling a SCCP Phone to Monitor BLF Status for Speed-Dials and Call Lists, page 891](#)
- [Enabling a SIP Phone to Monitor BLF Status for Speed-Dials and Call Lists, page 893](#)
- [Configuring Presence to Watch External Lines, page 895](#)

- [Verifying Presence Configuration, page 897](#)
- [Troubleshooting Presence, page 898](#)

Enabling Presence for Internal Lines

Perform the following steps to enable the router to accept incoming presence requests from internal watchers and SIP trunks.

Restrictions

- A presentity can be identified by a directory number only.
- BLF monitoring indicates the line status only.
- Instant Messaging is not supported.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **sip-ua**
4. **presence enable**
5. **exit**
6. **presence**
7. **max-subscription** *number*
8. **presence call-list**
9. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	sip-ua Example: Router(config)# sip-ua	Enters SIP user-agent configuration mode to configure the user agent.

	Command or Action	Purpose
Step 4	<code>presence enable</code> Example: Router(config-sip-ua)# presence enable	Allows the router to accept incoming presence requests.
Step 5	<code>exit</code> Example: Router(config-sip-ua)# exit	Exits SIP user-agent configuration mode.
Step 6	<code>presence</code> Example: Router(config)# presence	Enables presence service and enters presence configuration mode.
Step 7	<code>presence call-list</code> Example: Router(config-presence)# presence call-list	Globally enables BLF monitoring for directory numbers in call lists and directories on all locally registered phones. <ul style="list-style-type: none"> • Only directory numbers that you enable for watching with the allow watch command display BLF status indicators. • This command enables the BLF call-list feature globally. To enable the feature for a specific phone, see the “Enabling a SCCP Phone to Monitor BLF Status for Speed-Dials and Call Lists” section on page 891.
Step 8	<code>max-subscription number</code> Example: Router(config-presence)# max-subscription 128	(Optional) Sets the maximum number of concurrent watch sessions that are allowed. <ul style="list-style-type: none"> • <i>number</i>—Maximum watch sessions. Range: 100 to the maximum number of directory numbers supported on the router platform. Type ? to display range. Default: 100.
Step 9	<code>end</code> Example: Router(config-presence)# end	Exits to privileged EXEC mode.

Enabling a Directory Number to be Watched

To enable a line associated with a directory number to be monitored by a phone registered to a Cisco Unified CME router, perform the following steps. The line is enabled as a presentity and phones can subscribe to its line status through the BLF call-list and BLF speed-dial features. There is no restriction on the type of phone that can have its lines monitored; any line on any IP phone or on an analog phone on supported voice gateways can be a presentity.

Restrictions

- A presentity is identified by a directory number only.
- BLF monitoring indicates the line status only.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **ephone-dn** *dn-tag*
or
voice register dn *dn-tag*
4. **number** *number*
5. **allow watch**
6. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	ephone-dn <i>dn-tag</i> [dual-line] or voice register dn <i>dn-tag</i> Example: Router(config)# ephone-dn 1 or Router(config)# voice register dn 1	Enters the configuration mode to define a directory number for an IP phone, intercom line, voice port, or a message-waiting indicator (MWI). <ul style="list-style-type: none"> • <i>dn-tag</i>—Identifies a particular directory number during configuration tasks. Range is 1 to the maximum number of directory numbers allowed on the router platform, or the maximum defined by the max-dn command. Type ? to display range.
Step 4	number <i>number</i> Example: Router(config-ephone-dn)# number 3001 or Router(config-register-dn)# number 3001	Associates a phone number with a directory number to be assigned to an IP phone in Cisco Unified CME. <ul style="list-style-type: none"> • <i>number</i>—String of up to 16 characters that represents an E.164 telephone number.

	Command or Action	Purpose
Step 5	allow watch Example: Router(config-ephone-dn)# allow watch or Router(config-register-dn)# allow watch	Allows the phone line associated with this directory number to be monitored by a watcher in a presence service. <ul style="list-style-type: none"> This command can also be configured in ephone-dn template configuration mode and applied to one or more phones. The ephone-dn configuration has priority over the ephone-dn template configuration.
Step 6	end Example: Router(config-ephone-dn)# end or Router(config-register-dn)# end	Exits to privileged EXEC mode.

Enabling a SCCP Phone to Monitor BLF Status for Speed-Dials and Call Lists

A watcher can monitor the status of lines associated with internal and external directory numbers (presentities) through the BLF speed-dial and BLF call-list presence features. To enable the BLF notification features on an IP phone using SCCP, perform the following steps.

Prerequisites

- Presence must be enabled on the Cisco Unified CME router. See the [“Enabling Presence for Internal Lines” section on page 888](#).
- A directory number must be enabled as a presentity with the **allow watch** command to provide BLF status notification. See the [“Enabling a Directory Number to be Watched” section on page 889](#).

Restrictions

BLF Call-List

- Supported only on Cisco Unified IP Phone 7941G, 7941GE, 7961G, 7961GE, 7970G, and 7971GE.

BLF Speed-Dial

- Supported only on Cisco Unified IP Phone 7914, 7931, 7940, 7941G, 7941GE, 7960, 7961G, 7961GE, 7970G, and 7971GE.

Cisco Unified IP Phone 7931

- BLF status is displayed through monitor lamp only; BLF status icons are not displayed.

SUMMARY STEPS

- enable**
- configure terminal**
- ephone** *phone-tag*
- button** *button-number*{separator}*dn-tag* [,*dn-tag*...] [*button-number*{**x**}*overlay-button-number*] [*button-number*...]

5. **blf-speed-dial** *tag number label string*
6. **presence call-list**
7. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	<p>enable</p> <p>Example: Router> enable</p>	<p>Enables privileged EXEC mode.</p> <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	<p>configure terminal</p> <p>Example: Router# configure terminal</p>	<p>Enters global configuration mode.</p>
Step 3	<p>ephone <i>phone-tag</i></p> <p>Example: Router(config)# ephone 1</p>	<p>Enters ephone configuration mode to set phone-specific parameters for a SIP phone.</p> <ul style="list-style-type: none"> • <i>phone-tag</i>—Unique sequence number of the phone to be configured. Range is version and platform-dependent; type ? to display range. You can modify the upper limit for this argument with the max-ephones command.
Step 4	<p>button <i>button-number{separator}dn-tag</i> [,dn-tag...] [button-number{x}overlay-button-number] [button-number...]</p> <p>Example: Router(config-ephone)# button 1:10 2:11 3b12 4o13,14,15</p>	<p>Associates a button number and line characteristics with a directory number on the phone.</p> <ul style="list-style-type: none"> • <i>button-number</i>—Number of a line button on an IP phone. • <i>separator</i>—Single character that denotes the type of characteristics to be associated with the button. • <i>dn-tag</i>—Unique sequence number of the ephone-dn that you want to appear on this button. For overlay lines (separator is o or c), this argument can contain up to 25 ephone-dn tags, separated by commas. • x—Separator that creates an overlay rollover button. • <i>overlay-button-number</i>—Number of the overlay button that should overflow to this button.
Step 5	<p>blf-speed-dial <i>tag number label string</i></p> <p>Example: Router(config-ephone)# blf-speed-dial 3 3001 label sales</p>	<p>Enables BLF monitoring of a directory number associated with a speed-dial number on the phone.</p> <ul style="list-style-type: none"> • <i>tag</i>—Number that identifies the speed-dial index. Range: 1 to 33. • <i>number</i>—Telephone number to speed dial. • <i>string</i>—Alphanumeric label that identifies the speed-dial button. String can contain a maximum of 30 characters.

	Command or Action	Purpose
Step 6	<pre>presence call-list</pre> <p>Example: Router(config-ephone)# presence call-list</p>	<p>Enables BLF monitoring of directory numbers that appear in call lists and directories on this phone.</p> <ul style="list-style-type: none"> For a directory number to be monitored, it must have the allow watch command enabled. To enable BLF monitoring for call lists on all phones in this Cisco Unified CME system, use this command in presence mode. See the “Enabling Presence for Internal Lines” section on page 888.
Step 7	<pre>end</pre> <p>Example: Router(config-ephone)# end</p>	<p>Exits to privileged EXEC mode.</p>

What to Do Next

If you are done modifying parameters for SCCP phones in Cisco Unified CME, generate a new configuration profile by using the **create cnf-files** command and then restart the phones with the **restart** command. See [“SCCP: Generating Configuration Files for SCCP Phones” section on page 245](#) and [“SCCP: Using the restart Command” on page 258](#).

Enabling a SIP Phone to Monitor BLF Status for Speed-Dials and Call Lists

A watcher can monitor the status of lines associated with internal and external directory numbers (presentities) through the BLF speed-dial and BLF call-list presence features. To enable the BLF notification features on a SIP phone, perform the following steps.

Prerequisites

- Presence must be enabled on the Cisco Unified CME router. See the [“Enabling Presence for Internal Lines” section on page 888](#).
- A directory number must be enabled as a presentity with the **allow watch** command to provide BLF status notification. See the [“Enabling a Directory Number to be Watched” section on page 889](#).
- SIP phones must be configured with a directory number under voice register pool configuration mode (use **dn** keyword in **number** command); direct line numbers are not supported.

Restrictions

BLF Call-List

- Supported only on Cisco Unified IP Phone 7941G, 7941GE, 7961G, 7961GE, 7970G, and 7971GE.

BLF Speed-Dial

- Supported only on Cisco Unified IP Phone 7941G, 7941GE, 7961G, 7961GE, 7970G, and 7971GE.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **voice register pool** *pool-tag*
4. **number tag dn** *dn-tag*
5. **blf-speed-dial** *tag number label string*
6. **presence call-list**
7. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	voice register pool <i>pool-tag</i> Example: Router(config)# voice register pool 1	Enters voice register pool configuration mode to set phone-specific parameters for a SIP phone. <ul style="list-style-type: none"> • <i>pool-tag</i>—Unique sequence number of the SIP phone to be configured. Range is version and platform-dependent; type ? to display range. You can modify the upper limit for this argument with the max-pool command.
Step 4	number tag dn <i>dn-tag</i> Example: Router(config-register-pool)# number 1 dn 2	Assigns a directory number to the SIP phone. <ul style="list-style-type: none"> • <i>tag</i>—Identifier when there are multiple number commands. Range: 1 to 10. • <i>dn-tag</i>—Directory number tag that was defined using the voice register dn command.
Step 5	blf-speed-dial <i>tag number label string</i> Example: Router(config-register-pool)# blf-speed-dial 3 3001 label sales	Enables BLF monitoring of a directory number associated with a speed-dial number on the phone. <ul style="list-style-type: none"> • <i>tag</i>—Number that identifies the speed-dial index. Range: 1 to 7. • <i>number</i>—Telephone number to speed dial. • <i>string</i>—Alphanumeric label that identifies the speed-dial button. The string can contain a maximum of 30 characters.

	Command or Action	Purpose
Step 6	<p><code>presence call-list</code></p> <p>Example: <pre>Router(config-register-pool)# presence call-list</pre></p>	<p>Enables BLF monitoring of directory numbers that appear in call lists and directories on this phone.</p> <ul style="list-style-type: none"> For a directory number to be monitored, it must have the allow watch command enabled. To enable BLF monitoring for call lists on all phones in this Cisco Unified CME system, use this command in presence mode. See the “Enabling Presence for Internal Lines” section on page 888.
Step 7	<p><code>end</code></p> <p>Example: <pre>Router(config-register-pool)# end</pre></p>	<p>Exits to privileged EXEC mode.</p>

What to Do Next

If you are done modifying parameters for SIP phones in Cisco Unified CME, generate a new configuration profile by using the **create profile** command and then restart the phones with the **restart** command. See [“SIP: Generating Configuration Profiles for SIP Phones” section on page 248](#) and [“SIP: Using the restart Command” on page 262](#).

Configuring Presence to Watch External Lines

To enable internal watchers to monitor external directory numbers on a remote Cisco Unified CME router, perform the following steps.

Prerequisites

Presence service must be enabled for internal lines. See the [“Enabling Presence for Internal Lines” section on page 888](#).

SUMMARY STEPS

- enable**
- configure terminal**
- presence**
- server *ip-address***
- allow subscribe**
- watcher all**
- scp blf-speed-dial retry-interval *seconds limit number***
- exit**
- voice register global**
- authenticate presence**

11. **authenticate credential** *tag location*
12. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none">Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	presence Example: Router(config)# presence	Enables presence service and enters presence configuration mode.
Step 4	server ip-address Example: Router(config-presence)# server 10.10.10.1	Specifies the IP address of a presence server for sending presence requests from internal watchers to external presentities.
Step 5	allow subscribe Example: Router(config-presence)# allow subscribe	Allows internal watchers to monitor external directory numbers.
Step 6	watcher all Example: Router(config-presence)# watcher all	Allows external watchers to monitor internal directory numbers.
Step 7	sccp blf-speed-dial retry-interval seconds limit number Example: Router(config-presence)# sccp blf-speed-dial retry-interval 90 limit number 15	(Optional) Sets the retry timeout for BLF monitoring of speed-dial numbers on phones running SCCP. <ul style="list-style-type: none"><i>seconds</i>—Retry timeout in seconds. Range: 60 to 3600. Default: 60.<i>number</i>—Maximum number of retries. Range: 10 to 100. Default: 10.
Step 8	exit Example: Router(config-presence)# exit	Exits presence configuration mode.
Step 9	voice register global Example: Router(config)# voice register global	Enters voice register global configuration mode to set global parameters for all supported SIP phones in a Cisco Unified CME environment.

	Command or Action	Purpose
Step 10	authenticate presence Example: Router(config-register-global)# authenticate presence	(Optional) Enables authentication of incoming presence requests from a remote presence server.
Step 11	authenticate credential tag location Example: Router(config-register-global)# authenticate credential 1 flash:cred1.csv	(Optional) Specifies the credential file to use for authenticating presence subscription requests. <ul style="list-style-type: none"> <i>tag</i>—Number that identifies the credential file to use for presence authentication. Range: 1 to 5. <i>location</i>—Name and location of the credential file in URL format. Valid storage locations are TFTP, HTTP, and flash memory.
Step 12	end Example: Router(config-register-global)# end	Exits to privileged EXEC mode.

Verifying Presence Configuration

Step 1 show running-config

Use this command to verify your configuration.

```
Router# show running-config
!
voice register global
mode cme
source-address 10.1.1.2 port 5060
load 7971 SIP70.8-0-1-11S
load 7970 SIP70.8-0-1-11S
load 7961GE SIP41.8-0-1-0DEV
load 7961 SIP41.8-0-1-0DEV
authenticate presence
authenticate credential 1 tftp://172.18.207.15/labtest/cred1.csv
create profile sync 0004550081249644
.
.
.
presence
server 10.1.1.4
sccp blf-speed-dial retry-interval 70 limit 20
presence call-list
max-subscription 128
watcher all
allow subscribe
!
sip-ua
presence enable
```

Step 2 show presence global

Use this command to display presence configuration settings.

```
Router# show presence global

Presence Global Configuration Information:
=====
Presence feature enable           : TRUE
Presence allow external watchers  : FALSE
Presence max subscription allowed : 100
Presence number of subscriptions  : 0
Presence allow external subscribe : FALSE
Presence call list enable         : TRUE
Presence server IP address        : 0.0.0.0
Presence sccp blfsd retry interval : 60
Presence sccp blfsd retry limit   : 10
Presence router mode              : CME mode
```

Step 3 show presence subscription [details | presentity telephone-number | subid subscription-id summary]

Use this command to display information about active presence subscriptions.

```
Router# show presence subscription summary

Presence Active Subscription Records Summary: 15 subscription
Watcher                Presentity                SubID Expires SibID Status
=====
6002@10.4.171.60      6005@10.4.171.34         1    3600   0    idle
6005@10.4.171.81      6002@10.4.171.34         6    3600   0    idle
6005@10.4.171.81      6003@10.4.171.34         8    3600   0    idle
6005@10.4.171.81      6002@10.4.171.34         9    3600   0    idle
6005@10.4.171.81      6003@10.4.171.34        10    3600   0    idle
6005@10.4.171.81      6001@10.4.171.34        12    3600   0    idle
6001@10.4.171.61      6003@10.4.171.34        15    3600   0    idle
6001@10.4.171.61      6002@10.4.171.34        17    3600   0    idle
6003@10.4.171.59      6003@10.4.171.34        19    3600   0    idle
6003@10.4.171.59      6002@10.4.171.34        21    3600   0    idle
6003@10.4.171.59      5001@10.4.171.34        23    3600   24    idle
6002@10.4.171.60      6003@10.4.171.34       121    3600   0    idle
6002@10.4.171.60      5002@10.4.171.34       128    3600  129    idle
6005@10.4.171.81      1001@10.4.171.34       130    3600  131    busy
6005@10.4.171.81      7005@10.4.171.34       132    3600  133    idle
```

Troubleshooting Presence

Step 1 debug presence {all | asnl | errors | event | info | timer | trace | xml}

This command displays debugging information about the presence service.

```
Router# debug presence errors

*Sep  4 07:16:02.715: //PRESENCE:[0]:/presence_sip_line_update: SIP nothing to update
*Sep  4 07:16:02.723: //PRESENCE:[17]:/presence_handle_notify_done: sip stack response
code [29]
*Sep  4 07:16:02.723: //PRESENCE:[24]:/presence_handle_notify_done: sip stack response
code [29]
*Sep  4 07:16:02.791: //PRESENCE:[240]:/presence_handle_notify_done: sip stack response
code [17]
```

```
*Sep 4 07:16:02.791: //PRESENCE:[766]:/presence_handle_notify_done: sip stack response
code [17]
*Sep 4 07:16:04.935: //PRESENCE:[0]:/presence_sip_line_update: SIP nothing to update
*Sep 4 07:16:04.943: //PRESENCE:[17]:/presence_handle_notify_done: sip stack response
code [29]
*Sep 4 07:16:04.943: //PRESENCE:[24]:/presence_handle_notify_done: sip stack response
code [29]
*Sep 4 07:16:04.995: //PRESENCE:[240]:/presence_handle_notify_done: sip stack response
code [17]
*Sep 4 07:16:04.999: //PRESENCE:[766]:/presence_handle_notify_done: sip stack response
code [17]
```

Step 2 debug ephone blf [mac-address *mac-address*]

This command displays debugging information for BLF presence features.

```
Router# debug ephone blf
```

```
*Sep 4 07:18:26.307: skinny_asnl_callback: subID 16 type 4
*Sep 4 07:18:26.307: ASNL_RESP_NOTIFY_INDICATION
*Sep 4 07:18:26.307: ephone-1[1]:ASNL notify indication message, feature index 4, subID
[16]
*Sep 4 07:18:26.307: ephone-1[1]:line status 6, subID [16]
*Sep 4 07:18:26.307: ephone-1[1]:StationFeatureStatV2Message sent, status 2
*Sep 4 07:18:26.307: skinny_asnl_callback: subID 23 type 4
*Sep 4 07:18:26.307: ASNL_RESP_NOTIFY_INDICATION
*Sep 4 07:18:26.307: ephone-2[2]:ASNL notify indication message, feature index 2, subID
[23]
*Sep 4 07:18:26.311: ephone-2[2]:line status 6, subID [23]
*Sep 4 07:18:26.311: ephone-2[2]:StationFeatureStatV2Message sent, status 2
*Sep 4 07:18:28.951: skinny_asnl_callback: subID 16 type 4
*Sep 4 07:18:28.951: ASNL_RESP_NOTIFY_INDICATION
*Sep 4 07:18:28.951: ephone-1[1]:ASNL notify indication message, feature index 4, subID
[16]
*Sep 4 07:18:28.951: ephone-1[1]:line status 1, subID [16]
*Sep 4 07:18:28.951: ephone-1[1]:StationFeatureStatV2Message sent, status 1
*Sep 4 07:18:28.951: skinny_asnl_callback: subID 23 type 4
*Sep 4 07:18:28.951: ASNL_RESP_NOTIFY_INDICATION
*Sep 4 07:18:28.951: ephone-2[2]:ASNL notify indication message, feature index 2, subID
[23]
*Sep 4 07:18:28.951: ephone-2[2]:line status 1, subID [23]
*Sep 4 07:18:28.951: ephone-2[2]:StationFeatureStatV2Message sent, status 1
```

Configuration Examples for Presence

This section contains the following example:

- [Presence in Cisco Unified CME: Example, page 900](#)

Presence in Cisco Unified CME: Example

```
Router# show running-config

Building configuration...

Current configuration : 5465 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname CME-3825
!
boot-start-marker
boot-end-marker
!
logging buffered 2000000 debugging
enable password lab
!
no aaa new-model
!
resource policy
!
no network-clock-participate slot 1
no network-clock-participate slot 2
ip cef
!
!
no ip domain lookup
!
voice-card 1
no dspfarm
!
voice-card 2
no dspfarm
!
!
voice service voip
allow-connections sip to sip
h323
sip
  registrar server expires max 240 min 60
!
voice register global
mode cme
source-address 11.1.1.2 port 5060
load 7971 SIP70.8-0-1-11S
load 7970 SIP70.8-0-1-11S
load 7961GE SIP41.8-0-1-0DEV
load 7961 SIP41.8-0-1-0DEV
authenticate presence
authenticate credential 1 tftp://172.18.207.15/labtest/cred1.csv
create profile sync 0004550081249644
```



```

!
voice register dn 1
  number 2101
  allow watch
!
voice register dn 2
  number 2102
  allow watch
!
voice register pool 1
  id mac 0015.6247.EF90
  type 7971
  number 1 dn 1
  blf-speed-dial 1 1001 label "1001"
!
voice register pool 2
  id mac 0012.0007.8D82
  type 7912
  number 1 dn 2
!
interface GigabitEthernet0/0
  description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
  ip address 11.1.1.2 255.255.255.0
  duplex full
  speed 100
  media-type rj45
  no negotiation auto
!
interface GigabitEthernet0/1
  no ip address
  shutdown
  duplex auto
  speed auto
  media-type rj45
  negotiation auto
!
ip route 0.0.0.0 0.0.0.0 11.1.1.1
!
ip http server
!
!
!
tftp-server flash:Jar41sccp.8-0-0-103dev.sbn
tftp-server flash:cvm41sccp.8-0-0-102dev.sbn
tftp-server flash:SCCP41.8-0-1-0DEV.loads
tftp-server flash:P00303010102.bin
tftp-server flash:P00308000100.bin
tftp-server flash:P00308000100.loads
tftp-server flash:P00308000100.sb2
tftp-server flash:P00308000100.sbn
tftp-server flash:SIP41.8-0-1-0DEV.loads
tftp-server flash:apps41.1-1-0-82dev.sbn
tftp-server flash:cnu41.3-0-1-82dev.sbn
tftp-server flash:cvm41sip.8-0-0-103dev.sbn
tftp-server flash:dsp41.1-1-0-82dev.sbn
tftp-server flash:jar41sip.8-0-0-103dev.sbn
tftp-server flash:P003-08-1-00.bin
tftp-server flash:P003-08-1-00.sbn
tftp-server flash:P0S3-08-1-00.loads
tftp-server flash:P0S3-08-1-00.sb2
tftp-server flash:CP7912080000SIP060111A.sbin
tftp-server flash:CP7912080001SCCP051117A.sbin
tftp-server flash:SCCP70.8-0-1-11S.loads
tftp-server flash:cvm70sccp.8-0-1-13.sbn

```

```

tftp-server flash:jar70sccp.8-0-1-13.sbn
tftp-server flash:SIP70.8-0-1-11S.loads
tftp-server flash:apps70.1-1-1-11.sbn
tftp-server flash:cnu70.3-1-1-11.sbn
tftp-server flash:cvm70sip.8-0-1-13.sbn
tftp-server flash:dsp70.1-1-1-11.sbn
tftp-server flash:jar70sip.8-0-1-13.sbn
!
control-plane
!
dial-peer voice 2001 voip
  preference 2
  destination-pattern 1...
  session protocol sipv2
  session target ipv4:11.1.1.4
  dtmf-relay sip-notify
!
presence
  server 11.1.1.4
  sccp blf-speed-dial retry-interval 70 limit 20
  presence call-list
  max-subscription 128
  watcher all
  allow subscribe
!
sip-ua
  authentication username jack password 021201481F
  presence enable
!
!
telephony-service
  load 7960-7940 P00308000100
  load 7941GE SCCP41.8-0-1-0DEV
  load 7941 SCCP41.8-0-1-0DEV
  load 7961GE SCCP41.8-0-1-0DEV
  load 7961 SCCP41.8-0-1-0DEV
  load 7971 SCCP70.8-0-1-11S
  load 7970 SCCP70.8-0-1-11S
  load 7912 CP7912080000SIP060111A.sbin
  max-ephones 100
  max-dn 300
  ip source-address 11.1.1.2 port 2000
  url directories http://11.1.1.2/localdirectory
  max-conferences 6 gain -6
  call-forward pattern .T
  transfer-system full-consult
  transfer-pattern .T
  create cnf-files version-stamp Jan 01 2002 00:00:00
!
!
ephone-dn 1 dual-line
  number 2001
  allow watch
!
!
ephone-dn 2 dual-line
  number 2009
  allow watch
  application default
!
!
ephone-dn 3
  number 2005
  allow watch

```

```

!
!
ephone-dn 4 dual-line
  number 2002
!
!
ephone 1
  mac-address 0012.7F57.62A5
  fastdial 1 1002
  blf-speed-dial 1 2101 label "2101"
  blf-speed-dial 2 1003 label "1003"
  blf-speed-dial 3 2002 label "2002"
  type 7960
  button 1:1 2:2
!
!
!
ephone 3
  mac-address 0015.6247.EF91
  blf-speed-dial 2 1003 label "1003"
  type 7971
  button 1:3 2:4
!
!
!
line con 0
  exec-timeout 0 0
  password lab
  stopbits 1
line aux 0
  stopbits 1
line vty 0 4
  password lab
  login
!
scheduler allocate 20000 1000
!
end

```

Additional References

The following sections provide references related to Cisco Unified CME features.

Related Documents

Related Topic	Document Title
Cisco Unified CME configuration	<ul style="list-style-type: none"> Cisco Unified CME Command Reference Cisco Unified CME Documentation Roadmap
Cisco IOS commands	<ul style="list-style-type: none"> Cisco IOS Voice Command Reference Cisco IOS Software Releases 12.4T Command References
Cisco IOS configuration	<ul style="list-style-type: none"> Cisco IOS Voice Configuration Library Cisco IOS Software Releases 12.4T Configuration Guides
Phone documentation for Cisco Unified CME	<ul style="list-style-type: none"> User Documentation for Cisco Unified IP Phones

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<p>http://www.cisco.com/techsupport</p>

Feature Information for Presence Service

Table 62 lists the features in this module and enhancements to the features by version.

To determine the correct Cisco IOS release to support a specific Cisco Unified CME version, see the *Cisco Unified CME and Cisco IOS Software Version Compatibility Matrix* at http://www.cisco.com/en/US/docs/voice_ip_comm/cucme/requirements/guide/33matrix.htm.

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.



Note

Table 62 lists the Cisco Unified CME version that introduced support for a given feature. Unless noted otherwise, subsequent versions of Cisco Unified CME software also support that feature.

Table 62 Feature Information for Presence Service

Feature Name	Cisco Unified CME Version	Modification
Presence Service	4.1	Presence with BLF was introduced.

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<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

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