

target carrier-id through timeout tsmax

- target carrier-id, page 3
- target trunk-group-label, page 4
- tbct clear call, page 5
- tbct max call-duration, page 7
- tbct max calls, page 9
- tdm-group, page 11
- tech-prefix, page 13
- tel-config to-hdr, page 15
- telephony-service, page 17
- telephony-service ccm-compatible (H.323 voice-class), page 23
- telephony-service ccm-compatible (H.323 voice-service), page 25
- text relay modulation, page 27
- text relay protocol, page 29
- text relay rtp, page 31
- tgrep address-family, page 33
- tgrep advertise (dial peer), page 35
- tgrep advertise (trunk group), page 37
- tgrep local-itad, page 39
- threshold noise, page 40
- timeout (auto-config application), page 42
- timeout leg3, page 43
- timeout ptt, page 44
- timeout tcrit, page 45

I

• timeout tdinit, page 47

- timeout tdmax, page 49
- timeout tdmin, page 51
- timeout thist, page 53
- timeout tone busy, page 55
- timeout tone cot1, page 57
- timeout tone cot2, page 59
- timeout tone dial, page 61
- timeout tone dial stutter, page 63
- timeout tone mwi, page 65
- timeout tone network, page 67
- timeout tone reorder, page 69
- timeout tone ringback, page 71
- timeout tone ringback connection, page 73
- timeout tone ringing, page 75
- timeout tone ringing distinctive, page 77
- timeout tpar, page 79
- timeout tsmax, page 81

target carrier-id

To configure debug filtering for the target carrier ID, use the **target carrier-id** command in call filter match list configuration mode. To disable, use the **no** form of this command.

target carrier-id string

no target carrier-id string

show call filter match-list

source trunk-group-label

target trunk-group-label

source carrier-id

Syntax Description	string	Alphanumeric identifier for the carrier ID.
Command Default	No default behavior or values	
Command Modes	Call filter match list configuration	
Command History	Release	Modification
	12.3(4)T	This command was introduced.
Examples	The following example shows the voice ca	Il debug filter set to match target carrier ID 4321:
	call filter match-list 1 voice	
	target carrier-id 4321	
Related Commands		
	Command	Description
	call filter match-list voice	Create a call filter match list for debugging voice calls.
	debug condition match-list	Run a filtered debug on a voice call.

Display call filter match lists.

Configure debug filtering for the source carrier ID.

Configure debug filtering for a source trunk group.

Configure debug filtering for a target trunk group.

target trunk-group-label

To configure debug filtering for a target trunk group, use the **target trunk-group-label** command in call filter match list configuration mode. To disable, use the **no** form of this command.

target trunk-group-label group-number

no target trunk-group-label group-number

Syntax Description	group-number	A value from 0 to 23 that identifies the trunk group.
Command Default	No default behavior or values	

Command Modes Call filter match list configuration

Command History	Release	Modification
	12.3(4)T	This command was introduced.

Examples

The following example shows the voice call debug filter set to match target trunk group 21:

call filter match-list 1 voice
 target trunk-group-label 21

Command	Description
call filter match-list voice	Create a call filter match list for debugging voice calls.
debug condition match-list	Run a filtered debug on a voice call.
show call filter match-list	Display call filter match lists.
source carrier-id	Configure debug filtering for the source carrier ID.
source trunk-group-label	Configure debug filtering for a source trunk group.
target carrier-id	Configure debug filtering for the target carrier ID.

tbct clear call

To terminate billing statistics for one or more active Two B-Channel Transfer (TBCT) calls, use the **tbct clear call** command in privileged EXEC mode.

tbct clear call {all| interface [call-tag]}

Syntax Description

all	Active TBCT calls on all interfaces.
interface	Active TBCT calls on a specified interface. Range is platform-dependent.
call -tag	(Optional) A specific active TBCT call on the specified interface, as identified by the unique call tag number. Range is 1 to 4,294,967,295.

Command Default No default behavior or values

Command Modes Privileged EXEC

Command History	Release	Modification	
	12.3(1)	This command was introduced.	

Usage Guidelines

- Use this command to manually clear a specific active call or a group of active calls, if, for instance, the ISDN switch goes down. You should not have to manually clear calls with this command unless there is a problem with the switch.
 - This command terminates billing information that is being sent to the RADIUS server if, for some reason, the gateway did not receive a notify message from the switch that a call has cleared.
 - To automatically clear calls after a specified duration, use the tbct max call-duration command.
 - To determine the *interface* and *call -tag* arguments to use with this command, use the **show call active voice redirect** command.

Examples The following example clears calls on T1 interface 6/0:

Router# tbct clear call T1-6/0

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Command	Description
isdn supp -service tbct	Enables ISDN TBCT on PRI trunks.
show call active voice redirect	Displays information about active calls that are being redirected using RTPvt or TBCT.
tbct max call -duration	Sets the maximum duration allowed for a call that is redirected using TBCT.
tbct max calls	Sets the maximum number of active calls that can use TBCT.

tbct max call-duration

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To set the maximum duration allowed for a call that is redirected using Two B-Channel Transfer (TBCT), use the **tbct max call-duration**command in global configuration mode. To reset to the default, use the **no** form of this command.

tbct max call-duration minutes

no tbct max call-duration

Syntax Description	minutes	Maximum duration, in minutes, allowed for a single TBCT call. Range is 1 to 9999, in recommended increments of 5 minutes. Default is no limit.
Command Default	No limit	
Command Modes	Global configuration	
Command History	Release Modific	ation
	12.3(1) This con	nmand was introduced.
Usage Guidelines	 Use this command to automatically clear stale clear calls, use the tbct clear call command. Cisco recommends that you set the call durat 	calls, for instance if the PRI trunk goes down. To manually ion in increments of 5 minutes.
Note	The call duration limit set by this command is not exact number of minutes specified by this comman	precisely enforced; calls may not be cleared after the nd.
Examples	The following example clears TBCT calls that last tbct max call-duration 10	longer than 10 minutes:
Related Commands	Command	Description
	isdn supp -service tbct	Enables ISDN TBCT on PRI trunks.

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Command	Description
show call active voice redirect	Displays information about active calls that are being redirected using RTPvt or TBCT.
tbct clear call	Terminates billing statistics for one or more active TBCT calls.
tbct max calls	Sets the maximum number of active calls that can use TBCT.

tbct max calls

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To set the maximum number of active calls that can use Two B-Channel Transfer (TBCT), use the **tbct max calls** command in global configuration mode. To reset to the default, use the **no** form of this command.

tbct max calls *number*

no tbct max calls

Syntax Description	number	Maximum number of currently active calls that can invoke TBCT at any one time. Range is 1 to 1,000,00. Default is no limit.
Command Default	No limit, except as allowed by memory resource	2S
Command Modes	Global configuration	
Command History	Release Modi	lication
	12.3(1) This c	command was introduced.
Usage Guidelines Examples	Use this command to control memory resources oby TBCT calls. The following example sets the maximum numb tbct max calls 500	on the gateway by limiting the amount of memory consumed her of calls using TBCT to 500:
Related Commands	Command	Description
	isdn supp -service tbct	Enables ISDN TBCT on PRI trunks.
	show call active voice redirect	Displays information about active calls that are being redirected using RTPvt or TBCT.
	tbct clear call	Terminates billing statistics for one or more active TBCT calls.

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Command	Description
tbct max call -duration	Sets the maximum duration allowed for a call that is redirected using TBCT.

tdm-group

To configure a list of time slots for creating clear channel groups (pass-through) for time-division multiplexing (TDM) cross-connect, use the **tdm-group** command in controller configuration mode. To delete a clear channel group, use the **no** form of this command.

tdm-group *tdm-group-no* timeslot *timeslot-list* [type {em| fxs [loop-start| ground-start]| fxo [loop-start| ground-start]| fxs-melcas| fxo-melcas| e&m-melcas}]

no tdm-group *tdm-group-no* timeslot *timeslot-list* [type {em| fxs [loop-start| ground-start]| fxo [loop-start| ground-start]| fxs-melcas| fxo-melcas| e&m-melcas}]

Syntax Description	tdm -group-no	TDM group number.
	timeslot	Time-slot number.
	timeslot -list	Time-slot list. T1 range is 1 to 24. E1 range is 1 to 15 and 17 to 31.
	type	(Optional) (Valid only when the mode cas command is enabled.) Voice signaling type of the voice port. If configuring a TDM group for data traffic only, do not specify the type keyword.
		Choose from one of the following options:
		• e&mE&M signaling
		• fxsForeign Exchange Station signaling (optionally, you can also specify loop-start or ground-start)
		• fxoForeign Exchange Office signaling (optionally, you can also specify loop-start or ground-start)
		• fxs-melcasForeign Exchange Station MEL CAS
		• fxo-melcasForeign Exchange Office MEL CAS
		• e&m-melcasE&M Mercury Exchange Limited Channel-Associated signaling (MEL CAS)
		The MELCAS options apply only to E1 lines and are used primarily in the United Kingdom.

Command Default No TDM group is configured.

Command Modes Controller configuration

Command History

Release Modification	
11.3(1)MA	This command was introduced on Cisco MC38310.
12.1(1)T	This command was modified to include voice WAN interface cards (VWICs) for Cisco 2600 series and Cisco 3600 series.
12.1(2)T	This command was modified for the OC-3/STM-1 ATM Circuit Emulation Service network module on Cisco 2600 series and Cisco 3600 series.

Usage Guidelines

The **tdm-group** command allows specific timeslots to switch from port 0 to port 1 and vice versa. This command is similar to the **channel-group** command, but it does not create a serial interface to terminate the specified channels.

Note Channel groups, CAS voice groups, DS0 groups, and TDM groups all use group numbers. All group numbers configured for channel groups, CAS voice groups, DS0 groups, and TDM groups must be unique on the local router. For example, you cannot use the same group number for a channel group and for a TDM group.

Examples

The following example configures TDM group 1 to include timeslots 13 through 20:

```
controller T1 1
tdm-group 1 timeslots 13-20
```

The following example configures TDM group number 20 on controller T1 1 to support Foreign Exchange Office (FXO) ground-start:

```
controller T1 1
tdm-group 20 timeslot 20 type fxs ground-start
```

Command	Description
connect	Starts passage of data between ports for cross-connect TDM.

tech-prefix

To specify that a particular technology prefix be prepended to the destination pattern of a specific dial peer, use the **tech-prefix** command in dial peer configuration mode. To disable the defined technology prefix for this dial peer, use the **no** form of this command.

tech-prefix number

no tech-prefix

Syntax Description

	Defines the numbers used as the technology prefix. Each technology prefix can contain up to 11 characters. Although not strictly necessary, a pound (#) symbol is frequently used as the last character in a technology prefix. Valid characters are 0 though 9, the pound (#) symbol, and the asterisk (*).
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Command Default No technology prefix is defined.

Command Modes Dial peer configuration

Command History	Release	Modification
	11.3(6)NA2	This command was introduced on Cisco 2600 series and Cisco 3600 series.
	12.2(2)XB1	This command was implemented on the Cisco AS5850.
	12.2(11)T	This command was integrated into Cisco IOS Release 12.2(11)T.

Usage Guidelines

Technology prefixes are used to distinguish between gateways that have specific capabilities within a given zone. In the exchange between the gateway and the gatekeeper, the technology prefix is used to select a gateway after the zone has been selected. Use the **tech-prefix** command to define technology prefixes.

Technology prefixes can be used as a discriminator so that the gateway can tell the gatekeeper that a certain technology is associated with a particular call (for example, 15# could mean a fax transmission), or a technology prefix can be used like an area code for more generic routing. No standard defines what the numbers in a technology prefix mean; by convention, technology prefixes are designated by a pound (#) symbol as the last character.

In most cases, there is a dynamic protocol exchange between the gateway and the gatekeeper that enables the gateway to inform the gatekeeper about technology prefixes and where to forward calls. If, for some reason, that dynamic registry feature is not in effect, you can statically configure the gatekeeper to query the gateway

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	for this information by configuring the gw-type-prefix command on the gatekeeper. Use the show gatekeeper gw-type-prefix commandto display how the gatekeeper has mapped the technology prefixes to local gateways.		
Note	Cisco gatekeepers use the asterisk (*) as a reuse the asterisk as part of the technology pre	o gatekeepers use the asterisk (*) as a reserved character. If you are using Cisco gatekeepers, do not the asterisk as part of the technology prefix.	
Examples	technology prefix means that the H.323 gates prefix of 14#.	prefix of 14# for the specified dial peer. In this example, the way asks the RAS gatekeeper to direct calls using the technology	
	dial-peer voice 10 voip destination-pattern 14 tech-prefix 14#		
Related Commands	Command	Description	
	gw -type-prefix	Configures a technology prefix in the gatekeeper.	
show gatekeeper gw -type-prefix Disp		Displays the gateway technology prefix table.	

tel-config to-hdr

To configure the To: Header (to hdr) Request URI to telephone (TEL) format for VoIP Session Initiation Protocol (SIP) calls, use the **tel-config to-hdr**command in SIP configuration mode. To reset to the default, use the **no** form of this command.

tel-config to-hdr [phone-context]

no tel-config to-hdr

Syntax Description	phone-context		(Optional) Appends the phone context parameter to the TEL URL.	
Command Default	The To: Header Request Lin	ne URIs are not configure	d to telephone format.	
Command Modes	SIP configuration (conf-ser	v-sip)		
Command History	Release	Modification		
	12.4(22)YB	This command was introduced.		
	15.0(1)M	This command was integrated into Cisco IOS Release 15.0(1)M.		
Usage GuidelinesThe voice-class tel-config to-hdr command takes precedence over the tel-config to-hdr command in SIP configuration mode. However, if the voice-class tel-config to-hdr command is configure system keyword, the gateway uses the global settings configured by the tel-config to-hdr comm Enter SIP configuration mode after entering voice-service VoIP configuration mode, as shown in the section.			ss tel-config to-hdr command is configured with the configured by the tel-config to-hdr command.	
Examples	The following example con to the header: voice service voip sip tel-config to-hdr phon		TEL format, and appends the phone-context parameter	
Related Commands			1	
	Command		Description	
	sip		Enters SIP configuration mode from voice-service VoIP configuration mode.	

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Command	Description
voice -class tel-config to-hdr	Configures the To: Header request URI to telephone format for dial-peer VoIP SIP calls.

telephony-service

To enter telephony-service configuration mode for configuring Cisco Unified CME, use the **telephony-service** command in global configuration mode. To remove the entire Cisco Unified CME configuration for SCCP IP phones, use the **no** form of this command.

telephony-service [setup]

no telephony-service

Syntax Description

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p	(Optional) Interactive setup tool for configuring Cisco Unified IP Phone 7910s, 7940s, and 7960s in Cisco Unified CME.
	Note This interactive Cisco CME setup tool is restricted to generating basic configuration files for Cisco Unified IP Phone 7910s, 7940s, and 7960s running SCCP protocol only.

Command Default No Cisco Unified CME configuration for SCCP IP phones is present.

Command Modes Global configuration (config)

Command History	Cisco IOS Release	Cisco Product	Modification
	12.1(5)YD	Cisco ITS 1.0	This command was introduced.
	12.2(8)T	Cisco ITS 2.0	This command was integrated into Cisco IOS Release 12.2(8)T.
	12.2(15)ZJ	Cisco CME 3.0	The setup keyword was added.
	12.3(4)T	Cisco CME 3.0	This command was integrated into Cisco IOS Release 12.3(4)T.

Usage Guidelines This command enters the telephony-service configuration mode for configuring system wide parameters for SCCP IP phones in Cisco Unified CME.



The voice-gateway system is tied to the telephony service. The **telephony-service** command must be configured before the voice-gateway system is configured; otherwise, the voice gateway is hidden from the user.

Use the **setup** keyword to start the interactive setup tool to automatically configure only Cisco Unified IP Phone 7910s, 7940s, and 7960s in Cisco Unified CME.

For alternate methods of automatically configuring Cisco Unified CME, including Cisco Unified IP Phone 7910s, 7940s, and 7960s and other Cisco Unified IP phones, see the Cisco Unified CME Administrator Guide.

The setup keyword is not stored in the router nonvolatile random-access memory (NVRAM).

If you attempt to use the **setup** option for a system that already has a telephony-service configuration, the command is rejected. To use the **setup** option after an existing telephony-service configuration has been created, first remove the existing configuration using the **no telephony-service** command.

The table below shows a sample dialog with the Cisco CME setup tool and explains possible responses to the Cisco CME setup tool prompts.

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Table 1: Cisco CME Setup Tool Dialog Prompts

Cisco CME Setup Tool Prompt	Description
Do you want to setup DHCP service for your IP phones? [yes/no]: If you respond yes, you see the following prompts: IP network for telephony-service DHCP Pool: Subnet mask for DHCP network : TFTP Server IP address (Option 150) : Default Router for DHCP Pool :	 YesConfigures the Cisco Unified CME router to act as a Dynamic Host Configuration Protocol (DHCP) server, automatically providing IP addresses to your IP phones and provisioning the default gateway and TFTP IP addresses to be used by the phones. This method creates a single pool of IP addresses. If you need a pool for non-IP phones or if the Cisco router cannot act as the DHCP router, answer no and manually define the DHCP server. NoIndicates that you have already configured DHCP or static IP addresses for the IP phones.
Do you want to start telephony-service setup? [yes/no]:	 Yes Starts the interactive setup tool for configuring Cisco Unified IP Phone 7910s, 7940s, and 7960s. NoTerminates the Cisco CME setup tool.
Enter the IP source address for Cisco CallManager Express: Enter the Skinny Port for Cisco CallManager Express: [2000]:	IP address on which the router provides Cisco Unified CME services, usually the default gateway for the IP subnet that you are using for the IP phones, and the port for Skinny Client Control Protocol (SCCP) messages.
How many IP phones do you want to configure : [0]:	Enter the maximum number of IP phones that this Cisco Unified CME system will support. This number can be increased later, to the maximum allowed for this version and your router. Note The Cisco CME setup tool associates one number with each newly registering phone.
Do you want dual-line extensions assigned to phones? [yes for dual-line / no for single-line]:	You can manually add additional numbers on a phone at a later time.

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Cisco CME Setup Tool Prompt	Description
	 YesEach newly registering IP phones is assigned a single number that is associated with a single phone button. The system generates a dual-line ephone-dn entry for each ephone-dn. NoIP phones are linked directly to one or more PSTN trunk lines. Using keyswitch mode requires manual configuration in addition to using the Cisco CME setup tool. The system generates two ephone-dn entries for each ephone-dn, and they are both assigned to a single phone.
What language do you want on IP phones? 0 English 1 French 2 German 3 Russian 4 Spanish 5 Italian 6 Dutch 7 Norwegian 8 Portuguese 9 Danish 10 Swedish [0]:	Language for IP phone displays, selected from the list. • Default is 0, English.
Which Call Progress tone set do you want on IP phones :	Locale for the tone set used to indicate call status or progress, selected from the list.
0 United States 1 France 2 Germany 3 Russia 4 Spain 5 Italy 6 Netherlands 7 Norway 8 Portugal 9 UK 10 Denmark 11 Switzerland 12 Sweden 13 Austria 14 Canada [0]:	• Default is 0, United States.
What is the first extension number you want to configure :[0]:	

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Description	
First number in pool of extension numbers to be created for IP phones connected to the Cisco router to be configured.	
• Starting with this number, remaining extension numbers are automatically configured in a contiguous manner.	
• This number must be compatible with your telephone number plan, and, if you use Direct Inward Dialing (DID) service, with public switched telephone network (PSTN) numbering requirements.	
 YesIf you have trunk access to public telephone service by ISDN or VoIP for all extension numbers. The system creates an appropriate dial plan. NoIf you have simple analog phone lines only 	
(for example, foreign exchange office [FXO] interfaces) or if you have trunk access for some lines but not all lines.	
Complete 10-digit telephone number, including area code, that corresponds to the first extension number.	
• YesTo forward calls to a single voice message service number when an IP phone is busy or does not answer. All phone extensions forward their calls to the same voice message service pilot number.	
• NoNot to forward calls to a single voice message service number. Answer no if you do not have a voice message system or if you want to customize call-forwarding behavior for each extension.	

Cisco CME Setup Tool Prompt	Description
If you answer yes to the previous question, you see the following prompt: Enter the extension or pilot number of the voice message service:	Voice message service pilot number.This step can be ignored during the setup dialog and manually configured later.
Call forward No Answer Timeout: [18]:	Timeout, in seconds, after which to forward calls to voice mail if they are not answered. • Default is 18.
Do you wish to change any of the above information? [yes/no]:	 YesStarts the dialog over again without implementing any of the answers that you previously gave. NoUses specified values to automatically build basic configuration for Cisco Unified IP Phone 7910s, 7940s, and 7960s in Cisco Unified CME.

Examples

The following example shows how to enter telephony-service configuration mode for manually configuring Cisco Unified CME. This example also configures the maximum number of phones to 12:

Router(config)# telephony-service
Router(config-telephony)# max-ephones 12

The following example shows how to start the Cisco CME setup tool:

Router(config) # telephony-service setup

telephony-service ccm-compatible (H.323 voice-class)

To enable, for an individual dial peer, the detection of a Cisco CallManager system in the network and allow the exchange of calls, use the **telephony-service ccm-compatible** command in voice-class configuration mode. To disable the detection capability and the exchange of calls on an individual dial peer, use the **no** form of this command.

telephony-service ccm-compatible

no telephony-service ccm-compatible

- **Syntax Description** This command has no arguments or keywords.
- **Command Default** Detection of Cisco CallManager systems is enabled.
- **Command Modes** Voice-class configuration

Command History	Release	Modification
	12.3(7)T	This command was introduced.

Usage Guidelines This command is used with Cisco CallManager Express (Cisco CME) 3.1 or a later version.

When a voice class that contains this command is applied to a dial peer, this command enables detection of and call exchange with Cisco CallManager for all calls from that dial peer. Use the **telephony-service ccm-compatible**command in H.323 voice-service configuration mode to create a voice class to apply this capability globally. If the capability is specified at both the global and dial-peer level, the dial-peer setting has precedence for that dial peer.

Examples

The following example globally enables detection of Cisco CallManager systems in the network, creates voice class 4 to disable the capability on individual dial peers, and applies voice class 4 to dial peer 36. Although the **telephony-service ccm-compatible** command in H.323 voice-service configuration mode is not required because this condition is the default, the command is shown here for illustration purposes.

```
Router(config)# voice service voip
Router(config-voi-serv)# h323
Router(conf-serv-h323)# telephony-service ccm-compatible
Router(config-serv-h323)# exit
Router(config-voi-serv)# exit
Router(config)# voice class h323 4
Router(config-class)# no
telephony-service ccm-compatible
Router(config-class)# exit
Router(config-class)# exit
Router(config-dial-peer)# destination-pattern 555....
Router(config-dial-peer)# session target ipv4:10.5.6.7
```

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Router(config-dial-peer) # voice-class h323 4

Command	Description
telephony-service ccm-compatible (H.323 voice-service)	Globally enables detection of Cisco CallManager in a network for all dial peers.
voice class h323	Creates an H.323 voice class to apply to a dial peer.
voice-class h323	Applies an H.323 voice class to a dial peer.

telephony-service ccm-compatible (H.323 voice-service)

	To globally enable the detection of a Cisco CallManager system in the network and allow the exchange of calls, use the telephony-service ccm-compatible command in H.323 voice-service configuration mode. To disable the detection capability and the exchange of calls globally, use the no form of this command.	
	telephony-service ccm-compatible	
	no telephony-service ccm-compatible	
Syntax Description	This command has no arguments or keywords.	
Command Default	Detection of Cisco CallManager systems is enabled.	
Command Modes	H.323 voice-service configuration	
Command History	Release	Modification
	12.3(7)T	This command was introduced.
Usage Guidelines	This command globally enables call exc telephony-service ccm-compatiblecom	lanager Express (Cisco CME) 3.1 or a later version. hange with Cisco CallManager for all calls from this router. Use the mand in voice-class configuration mode to create a voice class in idual dial peer. If the capability is specified at both the global and precedence for that dial peer.
Examples	The following example globally enables detection of Cisco CallManager systems in the network, creates voice class 4 to disable the capability on individual dial peers, and applies voice class 4 to dial peer 36. Although the telephony-service ccm-compatible command in H.323 voice-service configuration mode is not required because this condition is the default, the command is shown here for illustration purposes. Router (config) # voice service voip Router (conf-serv-h323) # telephony-service ccm-compatible Router (conf-serv-h323) # telephony-service ccm-compatible Router (config-voi-serv) # exit Router (config-voi-serv) # exit Router (config-class h323 4 Router (config-class) # no telephony-service ccm-compatible Router (config-class) # exit Router (config-dial-peer voice 36 voip Router (config-dial-peer) # destination-pattern 555 Router (config-dial-peer) # session target ipv4:10.5.6.7	
	Router(config-dial-peer)# voice-c	ass h323 4

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Command	Description
h323	Enters H.323 voice-service configuration mode.
telephony-service ccm-compatible (H.323 voice-class)	Enables Cisco CallManager detection in a network by individual dial peers.
voice service voip	Enters voice-service configuration mode.

text relay modulation

To configure the teletype text phone (TTY) modulation used on the gateway for Cisco text relay for Baudot text phones, use the **text relay modulation**command in dial peer voice configuration mode or voice service configuration mode. To disable text relay modulation, use the **no** form of this command.

text relay modulation {baudot45.45| baudot50} {autobaud-on| autobaud-off}

no text relay modulation

Syntax Description

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baudot45.45	Configures baudot 45.45 TTY modulation. This is the default baud rate.
baudot50	Configures baudot 50 TTY modulation.
autobaud-on	Enables the digital signal processors (DSPs) to autodetect the baud rate. This is the default autobaud setting.
autobaud-off	Disables the DSP capability to autodetect the baud rate.

Command Default The TTY modulation is **baudot45.45 autobaud-on**.

Command Modes Dial peer voice configuration Voice service configuration

Command History	Release	Modification
	12.4(6)T	This command was introduced.

Usage Guidelines	You must select a baud rate and enable or disable the autobaud functionality on the DSP.		
	Use this command in voice service configuration mode to set the TTY modulation globally. A global configuration is the system-wide configuration that is applied to any VoIP call on the gateway.		
	Use this command in dial peer voice configuration mode to set the TTY modulation for calls that match a specific dial peer. The dial peer voice configuration takes precedence over the global configuration.		
Examples	The following example shows how to globally set the text relay TTY modulation to Baudot 50:		
	Router(config)# voice service voip Router(config-voi-serv)# text relay modulation baudot50 autobaud-off		

The following example shows how to set the text relay TTY modulation to Baudot 50 for calls that match a specific dial peer:

Router(config)# dial-peer voice 2000 voip Router(config-dial-peer)# text relay modulation baudot50 autobaud-off

Command	Description
text relay protocol	Configures the system-wide protocol type for text packets transmitted between gateways.
text relay rtp	Configures the RTP payload type and redundancy level.

text relay protocol

To enable Cisco text relay for Baudot text phones, use the **text relay protocol**command in dial peer voice configuration mode or voice service configuration mode. To disable text relay capabilities, use the **no** form of this command.

text relay protocol [cisco| system]

no text relay protocol

Syntax Description

cisco	(Optional) Uses the Cisco proprietary text relay protocol.
system	(Optional; dial peer voice configuration only) Uses the global configuration settings.

Command Default The text relay protocol is disabled.

Command Modes Dial-peer configuration Voice-service configuration

Command History	Release	Modification
	12.4(6)T	This command was introduced.

Usage Guidelines Use this command in voice-service configuration mode to enable text relay globally for H.323, Session Initiation Protocol (SIP), Skinny Client Control Protocol (SCCP), and Media Gateway Control Protocol (MGCP). A global configuration is the system-wide configuration that is applied to any VoIP call on the gateway.

Use this command in dial peer voice configuration mode to enable text relay for calls that match a specific dial peer. The dial peer voice configuration takes precedence over the global configuration.

Examples The following example shows how to enable text relay for all VoIP calls on the gateway:

Router(config)# voice service voip Router(config-voi-serv)# text relay protocol cisco The following example shows how to enable text relay for calls that match a specific dial peer:

Router(config)# **dial-peer voice 2000 voip** Router(config-dial-peer)# **text relay protocol cisco**

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Command	Description
text relay modulation	Configures the TTY modulation on the gateway.
text relay rtp	Configures the RTP payload type and redundancy level.

text relay rtp

To configure the Real-Time Transport Protocol (RTP) payload type and redundancy level for Cisco text relay for Baudot text phones, use the **text relay rtp**command in dial peer voice configuration mode or voice service configuration mode. To disable the text relay RTP payload type and redundancy level, use the **no** form of this command.

text relay rtp {[payload-type {value| default}] [redundancy level]| redundancy level} no text relay rtp

Syntax Description	<pre>payload-type { value default }</pre>	The RTP payload is the data transported by RTP in a packet.
		• The <i>value</i> range is 98 to 117 for dynamic RTP payload types.
		• The default value is 119, which is a static payload type.
	redundancy <i>level</i>	Use the redundancy option to repeat data for redundancy and to lower the risk of packet loss. The redundancy level is the number of redundant text packets sent across the VoIP network. The range is 1 to 3. The default value is 2.

Command Default Text relay RTP is disabled.

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Command Modes Dial peer voice configuration Voice service configuration

Command History	Release	Modification
	12.4(6)T	This command was introduced.

Usage Guidelines When using the **text relay rtp** command, you can either configure the **payload-type**, or the redundancy level, or both.

• Use this command in voice service configuration mode to set the RTP payload type and redundancy level globally for H.323, Session Initiation Protocol (SIP), Skinny Client Control Protocol (SCCP), and Media Gateway Control Protocol (MGCP). A global configuration is the system-wide configuration that is applied to any VoIP call on the gateway.

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	text relay protocol	Configures the system-wide protocol type for text packets transmitted between gateways.
	text relay modulation	Configures the TTY modulation on the gateway.
Related Commands	Command	Description
Examples	The following example shows how to globally configure text relay RTP payload type 117 and redundancy level 2: Router(config)# voice service voip Router(config-voi-serv)# text relay rtp payload-type 117 redundancy 2 The following example shows how to configure the default text relay RTP payload type and redundancy level 1 for calls that match a specific dial peer: Router(config)# dial-peer voice 2000 voip Router(config-dial-peer)# text relay rtp payload-type default redundancy 1	
	· · ·	ode to set the RTP payload type and redundancy level peer voice configuration takes precedence over the

tgrep address-family

To set the address family to be used on a local dial peer, use the tgrep address-family command in dial peer configuration mode. To return to the global setting, use the **no** form of this command.

tgrep address family {e164| decimal| penta-decimal}

no tgrep address family {e164| decimal| penta-decimal}

Syntax Description

n	e164	E.164 address family.
	decimal	Decimal address family
	penta-decimal	Penta-decimal address family

Command Default No default behavior or values.

Command Modes Dial peer configuration

Command History	Release	Modification
	12.3(1)	This command was introduced.

Usage Guidelines The E. 164 address family is used if the telephony network is a public telephony network. Decimal and pentadecimal options can be used to advertise private dial plans. For example if a company wants to use TRIP in within their enterprise telephony network using 5-digit extensions, then the gateway would advertise the beginning digits of their private numbers as a decimal address family. These calls cannot be sent out of the company's private telephony network because they are not E.164-compliant.

The pentadecimal family allows numbers 0 through 9 and alphabetic characters A through E and can be used in countries where letters are also carried in the called number.

Examples The following example shows that POTS dial peer 10 has the address family set for E.164 addresses:

Router(config)# dial-peer voice pots 10 Router(config-dial-peer)# tgrep address family e164

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Command	Description
dial-peer voice	Enters dial-peer configuration mode and specifies the method of voice-related encapsulation.

tgrep advertise (dial peer)

To set the attributes for advertisement of the prefix on this dial peer or to disable advertisement on this dial peer altogether, use the tgrep advertise command in dial peer configuration mode. To return to using the global setting, use the **no** form of this command.

tgrep advertise [csr] [ac] [tc] [carrier| trunk-group] [disable] no tgrep advertise [csr] [ac] [tc] [carrier| trunk-group] [disable]

Syntax Description	csr	Call success rate.
	ac	Available circuits.
	tc	Total circuits.
	carrier	Carrier-code address family.
	trunk-group	Trunk-group address family.
	disable	Disables advertisement of this dial peer.

Command Default Prefix advertisement is not sent.

Command Modes Dial peer configuration

Command History	Release	Modification
	12.3(1)	This command was introduced.

Usage Guidelines

When only tgrep advertise is entered, the dial peer is advertised without any other attribute.

When no tgrep advertise is used on the dial peer, the dial peer inherits the attributes set in the global advertise command.

When the global no advertise command is used, it forbids advertisement of that particular address family altogether. The tgrep advertise command has no effect until the advertisement of the address family is enabled globally.

Examples

The following example shows a TGREP advertisement that sends call success rate, available circuits, total circuits, and carrier address family attribute information:

Router(config)# **dial-peer voice pots 10** Router(config-dial-peer)# **tgrep advertise csr ac tc carrier**

Command	Description
dial-peer voice	Enters dial-peer configuration mode and specifies the method of voice-related encapsulation.
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tgrep advertise (trunk group)

To turn on the advertisement of this trunk group for resource availability and other carrier information, use the tgrep advertise command in trunk group configuration mode. To turn off local trunk group advertisement and use the global setting, use the **no** form of this command.

tgrep advertise [csr] [ac] [tc] [disable]

no tgrep advertise [csr] [ac] [tc] [disable]

Syntax Description		
oynax booonprion	csr	Call success rate.
	ac	Available circuits.
	tc	Total circuits.
	disable	Disables advertisement on the trunk group.
Command Default	Trunk group advertisement is not sent	
Command Modes	Trunk group configuration	
Command History	Release	Modification
	12.3(1)	This command was introduced.
Usage Guidelines	When only tgrep advertise is entered, the trunk group is advertised without any other attribute. When no tgrep advertise is used, the trunk group uses the global setting configured with the advertise command in TGREP configuration mode. To turn off advertisement of this trunk group, the disable keyword should be used. There is a subtle difference between the no form of this command and the no form of the global advertise command. When no tgrep advertise is used on the trunk group, the trunk group inherits the attributes set in the global advertise command. When the global no advertise command is used, it forbids advertisement of that particular address family altogether. The tgrep advertise command has no effect until the advertisement of the address family is enabled globally. When the carrier keyword is used, the carrier defined under the trunk group assumes the configuration. Because multiple trunk groups can have the same carrier defined, the same configuration will show up under all trunk groups that have the same carrier defined. When the no tgrep advertise carrier command is used to revert to the global carrier configuration for the carrier under their trunk group, the same will happen to all the trunk groups who have the same carrier defined under them.	

Note

This command overrides the attributes set for advertisement using the global advertise (tgrep) command.

Examples

The following example shows that trunk group 101 has been configured to send a TGREP advertisement that sends call success rate, available circuits, total circuits, and prefix attribute information:

Router(config)# trunk group 101 Router(config-dial-peer)# tgrep advertise csr ac tc carrier

Command	Description
advertise (tgrep)	Turns on reporting for a specified address family.
trunk group	Defines the trunk group and enters trunk group configuration mode.

tgrep local-itad

To enable Telephony Gateway Registration Protocol (TGREP) on the gateway and enter TGREP configuration mode, use the **tgrep local-itad** command in global configuration mode. To disable the configuration on the gateway, use the **no** form of this command.

tgrep local-itad [*itad-number*]

no tgrep local-itad [itad-number]

Syntax Description	itad-number	(Optional) IP Telephony Administrative Domain (ITAD) number associated with the gateway. The range is from 1 to 4294967295.
Command Default	TGREP is disabled on the gateway.	
Command Modes	Global configuration (config)	
Command History	Release	Modification
	12.3(1)	This command was introduced.
Examples	The following example shows how to enable TGREP for ITAD number 1234: Router# enable Router(config)# tgrep local-itad 1234	
Related Commands	Command	Description
	address-family	Sets the global address family to be used on all dial peers.
	advertise (tgrep)	Turns on reporting for a specified address family.
	neighbor	Creates a TGREP session with another device.

threshold noise

To configure a noise threshold for incoming calls, use the **threshold noise**command in voice-port configuration mode. To restore the default, use the no form of this command.

threshold noise value

no threshold noise value

yntax Description	value	Number that establishes a noise threshold. Valid values are from -30 to -90 decibels (dBs). The default is -62 dB.
command Default	-62 dB	
ommand Modes	Voice-port configu	uration
ommand History	Release	Modification
	12.2(13b)	This command was introduced on the following platforms: Cisco 1700 Cisco 1751, Cisco 2600 (with and without the NM-HDA), Cisco 3600 (with and without the NM-HDA), Cisco 7200 (with and without the NM-HDA), Cisco AS5300, Cisco AS5800, and Cisco MC3810.
	12.2(16)	This command was integrated into Cisco IOS Release 12.2(16).
lsage Guidelines	processing layer. The sand silence. The sand silence. The sand silence is the sand silence is the variable threshold the variable threshold the sand silence is made by the AP.	ty detection (VAD) has two layers: application programming interface (API) layer and There are 3 states that the processing layer classifies incoming signals: speech, unknown, tate of the incoming signals is determined by the noise threshold. OS releases, the noise threshold is fixed between -62 dB and -78 dB. If the voice level is preshold, then the signal is classified as silence. If the incoming signal cannot be classified nolds that are computed with the statistics of speech and noise that VAD gathers is used to tion. If the signal still cannot be classified, then it is marked as unknown. The final decision I. For applications such as hoot-n-holler, you could have the noise create unwanted spurious ple, a voice stream) taking up bandwidth.

With Cisco IOS Release 12.2(16), the noise threshold is configurable using the threshold noise command.

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Examples The following sample configuration shows a noise threshold level of -50 dB:

voice-port 1/0/0 threshold noise -50

timeout (auto-config application)

To configure the download timeout value for an auto-configuration application, use the **timeout** command in auto-config application configuration mode. To reset to the default, use the **no** form of this command.

timeout time-in-seconds

no timeout

Syntax Description	time -in-seconds		Specifies the download timeout value in seconds. The range is from 0 to 3600. The default is 180.
Command Default	The default value is 180 seconds.		
Command Modes	Auto-config application configura	tion	
Command History	Release	Modification	
	12.3(8)XY	This command wa	is introduced on the Communication Media Module.
	12.3(14)T	This command wa	as integrated into Cisco IOS Release 12.3(14)T.
Usage Guidelines Examples	A value of 0 specifies continuous download retry. The following example shows the timeout command used to specify continuous retry for downloading an auto-configuration application: Router (auto-config-app) # timeout 0		
Related Commands	Command		Description
	auto -config		Enables auto-configuration or enters auto-config application configuration mode for the SCCPapplication.
	show auto -config		Displays the current status of auto-configuration applications.

timeout leg3

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To set the timeout value for a leg 3 AAA preauthentication request, use the **timeout leg3** command in AAA preauthentication configuration mode. To return the timeout value to its default, use the **no** form of this command.

timeout leg3 milliseconds

no timeout leg3 milliseconds

Syntax Description	milliseconds	Timeout value for leg 3 preauthentication, in milliseconds. Range is from 100 to 1000. The default is 100.
Command Default	100 milliseconds.	
Command Modes	AAA preauthentication configuration	
Command History	Release	Modification
	12.2(11)T	This command was introduced.
	*	as responded to a preauthentication request, the call is rejected. In the IP network to a terminating (outgoing) gateway that takes ork.
	The following example sets the timeout for a leg 3 AAA preauthentication request to 250 milliseconds: Router(config)# aaa preauth Router(config-preauth)# timeout leg3 250	
Related Commands	Command	Description
	aaa preauth	Enters AAA preauthentication configuration mode.

timeout ptt

To specify a maximum time for transmitting or receiving a voice packet, use the **timeout ptt** command in voice-port configuration mode. To return to the default, use the **no** form of this command.

timeout ptt {rcv| xmt} minutes

no timeout ptt {rcv| xmt} minutes

Syntax Description

1	rcv	Applies the specified time limit to the reception of voice packets.
	xmt	Applies the specified time limit to the transmission of voice packets.
	minutes	Maximum time, in minutes, allowed for transmitting or receiving a voice packet. Range is integers from 1 to 30.

Command Default *minutes* : 0 minutes

Command Modes Voice-port configuration

Command History	Release	Modification
	12.3(4)XD	This command was introduced.
	12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.

Usage Guidelines The **timeout ptt** command is available on an ear and mouth (E&M) analog or digital voice port only if the signal type for that port is Land Mobile Radio (LMR). The purpose of this command is to limit extended radio transmission. When the time limit configured with this command expires, the radio transmitter unkeys, so that listeners on the channel cannot hear the speaker, even if the speaker continues to talk. When the speaker unkeys the radio, the timer is reactivated.

Examples

The following example specifies a maximum time of 10 minutes for transmitting a voice packet:

voice-port 1/0/0
timeout ptt xmt 10

timeout tcrit

To configure the critical timeout value, T(critical), for the interdigit timer used in digit map matching, use the **timeout tcrit** command in MGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tcrit *tcrit-value*

no timeout tcrit

Syntax Description	tcrit -value	Critical timeout value, T(critical), in seconds. Range is from 1 to 600. Default is 4.	

Command Default 4 seconds

Command Modes MGCP profile configuration

Command History	Release	Modification
	12.2(2)XA	This command was introduced.
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.

Usage Guidelines

s This command is used when configuring values for a Media Gateway Control Protocol (MGCP) profile.

The interdigit timer is used when matching a digit map, which is a representation of the number and type of digits that a gateway can expect to collect in a buffer, based on the network dial plan. The interdigit timer is started when the first digit is entered and is restarted after each new digit is entered, until a digit map match or mismatch occurs.

The interdigit timer takes on one of two values, T(partial) or T(critical). When at least one more digit is required to make a match to any of the patterns in the digit map, the value of T(partial) is used for the timer. If a timer is all that is required to produce a match according to the digit map, T(critical) is used for the timer.

When the interdigit timer is used without a digit map, it takes on the value T(critical). It is started immediately and is simply canceled (but not restarted) as soon as a digit is entered.

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Examples

The following example sets the T(critical) value to 15 seconds:

```
Router(config)# mgcp profile nyc-ca
Router(config-mgcp-profile)# timeout tcrit 15
```

Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.
timeout tpar	Configures the MGCP partial timeout value, T(partial), for the interdigit timer used in digit map matching.

timeout tdinit

To configure the initial waiting delay value (Tdinit) for the disconnected procedure, use the **timeout tdinit** command in MGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tdinit tdinit-value

no timeout tdinit

Syntax Description

tdinit -value Initial wa procedure initialized

Initial waiting delay (Tdinit) for the disconnected procedure, in seconds. The disconnected timer is initialized to a randomly selected value between 0 and Tdinit. Range is from 1 to 30. Default is 15.

Command Default 15 seconds

Command Modes MGCP profile configuration

Command History	Release	Modification
	12.2(2)XA	This command was introduced.
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.

Usage Guidelines

s This command is used when configuring values for a Media Gateway Control Protocol (MGCP) profile.

When a gateway recognizes that an endpoint has lost its communication with the call agent (has become *disconnected*), a timer known as the disconnected timer is initialized to a random value between 0 and the disconnected initial waiting delay (Tdinit), which is configured with the **timeout tdinit** command. The gateway then waits for one of three things: the end of this timer, the reception of a command from the call agent, or the detection of local user activity for the endpoint, such as an off-hook transition. When one of the first two cases occurs, the gateway initiates the *disconnected procedure* for that endpoint. In the third case, the detection of local user activity, a minimum waiting delay (Tdmin) also must have elapsed. This value is configured with the **timeout tdmin** command.

The disconnected procedure consists of the endpoint sending a RestartInProgress (RSIP) message to the call agent, stating that it was disconnected and is now trying to reestablish connectivity.

If the disconnected procedure is unsuccessful and the endpoint is still disconnected, the disconnected timer is doubled; this process is repeated until the timer value reaches the maximum waiting delay (Tdmax), which is configured with the **timeout tdmax** command.

Examples

The following example sets the initial waiting delay value (Tdinit) to 25 seconds:

Router(config)# mgcp profile nyc-ca
Router(config-mgcp-profile)# timeout tdinit 25

Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.
timeout tdmax	Configures the maximum timeout for the MGCP disconnected procedure.
timeout tdmin	Configures the minimum timeout for the MGCP disconnected procedure.

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timeout tdmax

To configure the maximum timeout value (Tdmax) for the disconnected procedure, use the timeout tdmax command in MGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tdmax tdmax-value

no timeout tdmax

Syntax Description

tdmax -value

Maximum timeout value (Tdmax) for the
disconnected procedure, in seconds. Range is from
300 to 600. The default is 600.

....

Command Default 600 seconds

Command Modes MGCP profile configuration

Command History	Release	Modification
	12.2(2)XA	This command was introduced.
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.

Usage Guidelines

This command is used when configuring values for a Media Gateway Control Protocol (MGCP) profile.

When a gateway recognizes that an endpoint has lost its communication with the call agent (has become *disconnected*), a timer known as the disconnected timer is initialized to a random value between 0 and the disconnected initial waiting delay (Tdinit), which is configured with the timeout tdinit command. The gateway then waits for one of three things: the end of this timer, the reception of a command from the call agent, or the detection of local user activity for the endpoint, such as an off-hook transition. When one of the first two cases occurs, the gateway initiates the disconnected procedure for that endpoint. In the third case, the detection of local user activity, a minimum waiting delay (Tdmin) also must have elapsed. This value is configured with the timeout tdmincommand.

The disconnected procedure consists of the endpoint sending a RestartInProgress (RSIP) message to the call agent, stating that it was disconnected and is now trying to reestablish connectivity.

If the disconnected procedure is unsuccessful and the endpoint is still disconnected, the disconnected timer is doubled; this process is repeated until the timer value reaches the maximum waiting delay (Tdmax), which is configured with the timeout tdmax command.

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Examples

The following example sets the maximum timeout value (Tdmax) to 450 seconds:

```
Router(config)# mgcp profile nyc-ca
Router(config-mgcp-profile)# timeout tdmax 450
```

Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.
timeout tdinit	Configures the initial timeout for the MGCP disconnected procedure.
timeout tdmin	Configures the minimum timeout for the MGCP disconnected procedure.

timeout tdmin

To configure the minimum timeout value (Tdmin) for the disconnected procedure, use the **timeout tdmin** command in MGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tdmin tdmin-value

no timeout tdmin

Syntax Description Image: Minimum timeout (Tdmin) for the disconnected procedure, in seconds. Range is from 1 to 30. The default is 15.

Command Default 15 seconds

Command Modes MGCP profile configuration

Command History	Release	Modification
	12.2(2)XA	This command was introduced.
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.

Usage Guidelines

This command is used when configuring values for a Media Gateway Control Protocol (MGCP) profile.

When a gateway recognizes that an endpoint has lost its communication with the call agent (has become *disconnected*), a timer known as the disconnected timer is initialized to a random value between 0 and the disconnected initial waiting delay (Tdinit), which is configured with the **timeout tdinit**command. The gateway then waits for one of three things: the end of this timer, the reception of a command from the call agent, or the detection of local user activity for the endpoint, such as an off-hook transition. When one of the first two cases occurs, the gateway initiates the *disconnected procedure* for that endpoint. In the third case, the detection of local user activity, a minimum waiting delay (Tdmin) also must have elapsed. This value is configured with the **timeout tdmin**command.

The disconnected procedure consists of the endpoint sending a RestartInProgress (RSIP) message to the call agent, stating that it was disconnected and is now trying to reestablish connectivity.

If the disconnected procedure is unsuccessful and the endpoint is still disconnected, the disconnected timer is doubled; this process is repeated until the timer value reaches the maximum waiting delay (Tdmax), which is configured with the **timeout tdmax** command.

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Examples

The following example sets the minimum timeout value (Tdmin) to 20 seconds:

```
Router(config)# mgcp profile nyc-ca
Router(config-mgcp-profile)# timeout tdmin 20
```

Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.
timeout tdinit	Configures the initial timeout for the MGCP disconnected procedure.
timeout tdmax	Configures the maximum timeout for the MGCP disconnected procedure.

timeout thist

I

To configure the packet storage timeout value (Thist), use the **timeout thist**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout thist thist-value

no timeout thist

Syntax Description	thist -value		Package storage timeout (Thist), in seconds. Range is from 1 to 60. The default is 30.	
Command Default	30 seconds			
Command Modes	MGCP profile configura	tion		
Command History	Release	Modification		
	12.2(2)XA	This command was introduced.		
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.		
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.		
Usage Guidelines	This command is used v	when configuring values for a	Media Gateway Control Protocol (MGCP) profile.	
	When a response to a more keeps in memory a list of gateway also keeps a list	essage is not received promptof the responses it has sent for	tocol (UDP), and are therefore subject to packet loss. tly, the sender retransmits the message. The gateway r the number of seconds in the Thist timeout value. The eing processed, with their transaction identifiers, to age more than once.	
Examples	The following example sets the packet storage timeout value (Thist) to 15 seconds:			
	Router(config)# mgcp profile nyc-ca Router(config-mgcp-profile)# timeout thist 15			

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Command	Description
тдср	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints, or to configure the default profile.

timeout tone busy

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To configure the busy-tone timeout value, use the **timeout tone busy** command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone busy busy-tone-value

no timeout tone busy

2(2)XA 2(4)T	Busy-tone timeout, in seconds. Range is from 1 to 600. The default is 30. Modification This command was introduced. This command was integrated into Cisco IOS Release 12.2(4)T.	
CP profile configuration ease 2(2)XA 2(4)T	This command was introduced. This command was integrated into Cisco IOS Release 12.2(4)T.	
ease 2(2)XA 2(4)T	This command was introduced. This command was integrated into Cisco IOS Release 12.2(4)T.	
2(2)XA 2(4)T	This command was introduced. This command was integrated into Cisco IOS Release 12.2(4)T.	
2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.	
2(11)T		
	This command was implemented on the Cisco AS5300 and Cisco AS5850.	
gateway uses the busy-tone time	uring values for a Media Gateway Control Protocol (MGCP) profile. eout value when the call agent does not provide a timeout value associate	
the request to generate a busy to	tone signal.	
The following example sets the busy tone timeout value to 45 seconds:		
cer(config)# mgcp profile n cer(config-mgcp-profile)# t :		
nmand	Description	
	Starts and allocates resources for the MGCP daemon	
	the request to generate a busy following example sets the bus er(config)# mgcp profile r er(config-mgcp-profile)# t	

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tone cot1

I

To configure the continuity1 (cot1) tone timeout value, use the **timeout tone cot1** command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone cot1 cot1-tone-value

no timeout tone cot1

Syntax Description	cot1 -tone-value		Continuity1 (cot1) tone timeout, in seconds. Range is from 1 to 600. The default is 3.	
Command Default	3 seconds			
Command Modes	MGCP profile configuration	L		
Command History	Release	Modification		
	12.2(2)XA	This command was introduced.		
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.		
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.		
Usage Guidelines		uity1 (cot1) tone timeout	Media Gateway Control Protocol (MGCP) profile. value when the call agent does not provide a timeout	
	Continuity1 and continuity2	tone signals are used in l path has been established	Integrated Services Digital Networks User Part (ISUP) I before connecting a call. The call agent is provisioned	
Examples	The following example sets the continuity1 tone timeout value to 25 seconds:			
	Router(config)# mgcp pro Router(config-mgcp-prof:	profile nyc-ca ofile)# timeout tone cot1 25		

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Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.
timeout tone cot2	Sets the continuity2 tone timeout value for MGCP.

timeout tone cot2

I

To configure the continuity2 (cot2) tone timeout value, use the **timeout tone cot2**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone cot2 cot2-tone-value

no timeout tone cot2

Syntax Description	cot2 -tone-value		Continuity2 (cot2) tone timeout, in seconds. Range is from 1 to 600. The default is 3.
Command Default	3 seconds		
Command Modes	MGCP profile configuration		
Command History	Release	Modification	
	12.2(2)XA	This command w	vas introduced.
	12.2(4)T	This command w	vas integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command w AS5850.	vas implemented on the Cisco AS5300 and Cisco
Usage Guidelines	The gateway uses the continuity2	(cot2) tone timeout	Media Gateway Control Protocol (MGCP) profile. value when the call agent does not provide a timeout
		signals are used in I as been established	ne signal. ntegrated Services Digital Networks User Part (ISUP) before connecting a call. The call agent is provisioned
Examples	The following example sets the co	ntinuity2 tone time	out value to 50 seconds:
	Router(config)# mgcp profile Router(config-mgcp-profile)#		:2 50

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Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.
timeout tone cot1	Sets the continuity1 tone timeout value for MGCP.

timeout tone dial

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To configure the dial tone timeout value, use the **timeout tone dial**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone dial dial-tone-value

no timeout tone dial

Syntax Description	dial -tone-value		Dial tone timeout value, in seconds. Range is from 1 to 600. The default is 16.
Command Default	16 seconds		
Command Modes	MGCP profile configuration	on	
Command History	Release	Modification	
	12.2(2)XA	This command was introduced.	
	12.2(4)T	This command w	vas integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command in	mplemented on the Cisco AS5300 and Cisco AS5850.
Usage Guidelines		cone timeout value when the	Media Gateway Control Protocol (MGCP) profile. e call agent does not provide a timeout value associated
Examples	Router(config)# mgcp p	s the dial tone timeout valu rofile nyc-ca file)# timeout tone dia	
Deleted Community			
Related Commands	Command		Description
	mgcp		Starts and allocates resources for the MGCP daemon.

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

I

timeout tone dial stutter

To configure the stutter dial tone timeout value, use the **timeout tone dial stutter** command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone dial stutter stutter-value

no timeout tone dial stutter

Syntax Description	stutter -value		Timeout value for the stutter dial tone, in seconds. Range is from1 to 600. The default is 16.	
Command Default	16 seconds			
Command Modes	MGCP profile configuration	on		
Command History	Release	Modification		
	12.2(2)XA	This command w	This command was introduced.	
	12.2(4)T	This command w	ras integrated into Cisco IOS Release 12.2(4)T.	
	12.2(11)T	This command w AS5850.	ras implemented on the Cisco AS5300 and Cisco	
Usage Guidelines	The gateway uses the stutt		Media Gateway Control Protocol (MGCP) profile. when the call agent does not provide a timeout value one signal.	
Examples	Router(config)# mgcp p	ts the stutter dial tone timeo profile nyc-ca ofile)# timeout tone dia		
Related Commands	Command		Description	
	тдср		Starts and allocates resources for the MGCP daemon.	

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tone mwi

I

To configure the timeout value for the message-waiting indicator tone, use the **timeout tone mwi** command in MGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone mwi mwi-tone-value

no timeout tone mwi

mwi -tone-value		Message-waiting-indicator (MWI) tone timeout value, in seconds. Range is from 1 to 600. The default is 16.
16 seconds		
MGCP profile configuration	1	
Release	Modification	
12.2(2)XA	This command was introduced.	
12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.	
12.2(11)T	This command w AS5850.	as implemented on the Cisco AS5300 and Cisco
The gateway uses the <i>mwi-te</i>	one-value when the call ag	
Router(config)# mgcp pro	ofile nyc-ca	
Router(config-mgcp-prof:	ile)# timeout tone mwi	. 100
Command		Description
mgcp		Starts and allocates resources for the MGCP daemon.
	16 seconds MGCP profile configuration Release 12.2(2)XA 12.2(4)T 12.2(11)T This command is used when The gateway uses the mwi-t generate the message-waitin The following example sets Router (config) # mgcp pr Router (config-mgcp-prof Command	16 seconds MGCP profile configuration Release Modification 12.2(2)XA This command w 12.2(4)T This command w 12.2(11)T This command w AS5850. AS5850. This command is used when configuring values for a The gateway uses the <i>mwi-tone-value</i> when the call agenerate the message-waiting indicator tone signal. The following example sets the timeout value for the secure (config) # mgcp profile nyc-ca Router (config) # mgcp profile nyc-ca Router (config-mgcp-profile) # timeout tone mwi Command

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tone network

To configure the network congestion tone timeout value, use the timeout tone network command in MGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone network {congestion| busy} tone-value

no timeout tone network

Syntax Description

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congestion	Timeout for network congestion.
busy	Timeout for network busy.
tone -value	Tone timeout value, in seconds. Range is from 1 to 600. The default is 180.

Command Default 180 seconds

Command Modes MGCP profile configuration

Command History	Release	Modification
	12.2(2)XA	This command was introduced.
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.
	12.4(9)T	The busy keyword was introduced.

Usage Guidelines	This command is used when configuring values for a Media Gateway Control Protocol (MGCP) profile.		
	The gateway uses the tone timeout value when the call agent does not provide a timeout value associated with the request to generate a network congestion or network busy tone signal.		
Examples	The following example sets the network congestion tone timeout value to 240 seconds:		
	Router(config)# mgcp profile nyc-ca Router(config-mgcp-profile)# timeout tone network congestion 240 The following example shows the network busy timeout value being set to 300 seconds.		

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Router(config)# mgcp profile sample

Router(config-mgcp-profile) # timeout tone network busy 300

Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tone reorder

I

To configure the reorder tone timeout value, use the **timeout tone reorder** command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone reorder reorder-tone-value

no timeout tone reorder

Syntax Description	reorder -tone-value		Reorder-tone timeout value, in seconds. Range is from 1 to 600. The default is 30.
Command Default	30 seconds		
Sommand Bondan	50 seconds		
Command Modes	MGCP profile configuration		
Command History	Release	Modification	
	12.2(2)XA	This command w	as introduced.
	12.2(4)T	This command w	as integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command w AS5850.	as implemented on the Cisco AS5300 and Cisco
Usage Guidelines	-	meout value when the	Media Gateway Control Protocol (MGCP) profile. he call agent does not provide a timeout value associated
Examples	The following example sets the reorder tone timeout value to 60 seconds:		
	Router(config)# mgcp profile Router(config-mgcp-profile)# ·		rder 60
Related Commands	Command		Description
	mgcp		Starts and allocates resources for the MGCP daemon.

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tone ringback

I

To configure the ringback tone timeout value, use the **timeout tone ringback**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone ringback ringback-tone-value

no timeout tone ringback

Syntax Description	ringback -tone-value		Ringback-tone timeout value, in seconds. Range is from 1 to 600. The default is 180.
Command Default	180 seconds		
Command Modes	MGCP profile configuration	on	
Command History	Release	Modification	
	12.2(2)XA	This command w	as introduced.
	12.2(4)T	This command w	as integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command w AS5850.	as implemented on the Cisco AS5300 and Cisco
Usage Guidelines	The gateway uses the ringle		Media Gateway Control Protocol (MGCP) profile. en the call agent does not provide a timeout value e signal.
Examples	The following example sets the ringback tone timeout value to 120 seconds: Router(config) # mgcp profile nyc-ca Router(config-mgcp-profile) # timeout tone ringback 120		
Related Commands	Command		Description
	mgcp		Starts and allocates resources for the MGCP daemon.

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tone ringback connection

To configure the timeout value for the ringback tone on connection, use the **timeout tone ringback connection**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone ringback connection connect-tone-value

no timeout tone ringback connection

Syntax Description	connect -tone-value		Timeout value for the ringback tone on connection, in seconds. Range is from 1 to 600. The default is 180.
Command Default	180 seconds		
Command Modes	MGCP profile configuration		
Command History	Release	Modification	
	12.2(2)XA	This command w	as introduced.
	12.2(4)T	This command w	ras integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command w AS5850.	ras implemented on the Cisco AS5300 and Cisco
Usage Guidelines		nen the call agent does	Media Gateway Control Protocol (MGCP) profile. not provide a timeout value associated with the request
Examples	The following example sets the timeout value for the ringback tone on connection to 120 seconds: Router(config) # mgcp profile nyc-ca		
	Router (config-mgcp-profile		gback connection 120
Related Commands	Command		Description
	mgcp		Starts and allocates resources for the MGCP daemon.

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tone ringing

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To configure the ringing tone timeout value, use the **timeout tone ringing**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone ringing ringing-tone-value

no timeout tone ringing

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Syntax Description	ringing -tone-value		Ringing tone timeout value, in seconds. Range is from 1 to 600. The default is 180.
Command Default	180 seconds		
	180 seconds		
Command Modes	MGCP profile configuration	L	
Command History	Release	Modification	
	12.2(2)XA	This command w	vas introduced.
	12.2(4)T	This command w	vas integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command w AS5850.	as implemented on the Cisco AS5300 and Cisco
Usage Guidelines		tone timeout value when t	Media Gateway Control Protocol (MGCP) profile. he call agent does not provide a timeout value associated
Examples	The following example sets	the ringing tone timeout	value to 240 seconds:
	Router(config) # mgcp pro Router(config-mgcp-profi		nging 240
Related Commands	Command		Description
	mgcp		Starts and allocates resources for the MGCP daemon.

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

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timeout tone ringing distinctive

To configure the distinctive ringing tone timeout value, use the **timeout tone ringing distinctive**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tone ringing distinctive distinct-tone-value

no timeout tone ringing distinctive

Syntax Description	distinct -tone-value		Distinctive-ringing tone timeout value, in seconds. Range is from 1 to 600. the default is 180.
Command Default	180 seconds		
Command Modes	MGCP profile configuration	on	
Command History	Release	Modification	
	12.2(2)XA	This command w	as introduced.
	12.2(4)T	This command w	as integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command w AS5850.	as implemented on the Cisco AS5300 and Cisco
Usage Guidelines	The gateway uses the disti		Media Gateway Control Protocol (MGCP) profile. value when the call agent does not provide a timeout for distinctive ringing.
Examples	The following example sets the distinctive ringing tone timeout value to 240 seconds: Router(config) # mgcp profile nyc-ca Router(config-mgcp-profile) # timeout tone ringing distinctive 240		
Related Commands	Command		Description
	mgcp		Starts and allocates resources for the MGCP daemon.

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Command	Description
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

timeout tpar

To configure the partial timeout value, T(partial), for the interdigit timer used in digit map matching, use the **timeout tpar**command inMGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tpar tpar-value

no timeout tpar

Syntax Description		Partial timeout value, T(partial), in seconds. Range is from 1 to 60. The default is 16.
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Command Default 16 seconds

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Command Modes MGCP profile configuration

Command History	Release	Modification
	12.2(2)XA	This command was introduced.
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.

Usage Guidelines	This command is used when configuring values for a Media Gateway Control Protocol (MGCP) profile.			
	The interdigit timer is used when matching digit maps. It is started when the first digit is entered, and is restarted after each new digit is entered, until a digit map match or mismatch occurs.			
	The interdigit timer takes on one of two values, T(partial) or T(critical). When at least one more digit is required to make a match to any of the patterns in the digit map, the value of T(partial) is used for the timer. If a timer is all that is required to produce a match according to the digit map, T(critical) is used for the timer.			
	When the interdigit timer is used without a digit map, it takes on the value T(critical). It is started immediately and is simply canceled (but not restarted) as soon as a digit is entered.			
Examples	The following example sets the partial timeout value to 15 seconds:			
	Router(config)# mgcp profile nyc-ca Router(config-mgcp-profile)# timeout tpar 15			

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Command	Description
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.
timeout tcrit	Configures the MGCP critical timeout value, T(critical), for the interdigit timer used in digit map matching.

timeout tsmax

To configure the maximum timeout value after which MGCP messages are removed from the retransmission queue, use the **timeout tsmax**command in MGCP profile configuration mode. To reset to the default, use the **no** form of this command.

timeout tsmax tsmax-value

no timeout tsmax

tsmax -value

Syntax	Description
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Timeout value for MGCP messages to be removed from the retransmission queue, in seconds. Range is from 1 to 100. The default is 20.

Command Default 20 seconds

Command Modes MGCP profile configuration

Command History	Release	Modification
	12.2(2)XA	This command was introduced.
	12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
	12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.

Usage GuidelinesThis command is used when configuring values for a Media Gateway Control Protocol (MGCP) profile.The gateway uses the *tsmax-value* argument to determine how long to store MGCP messages before they are
removed from the retransmission queue.

Examples The following example sets the timeout value for the maximum retransmission of MGCP messages to 45 seconds:

Router(config)# mgcp profile nyc-ca
Router(config-mgcp-profile)# timeout tsmax 45

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Command	Description
тдср	Starts and allocates resources for the MGCP daemon.
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.