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keepalive retries

To set the number of keepalive retries from Skinny Client Control Protocol (SCCP) to Cisco Unified CallManager, use the **keepalive retries**command in SCCP Cisco CallManager configuration mode. To reset this number to the default value, use the **no** form of this command.

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keepalive retries number

no keepalive retries

Syntax Description	number	Number of keepalive attempts. Range is 1 to 32. Default is 3.
Command Default	3 keepalive attempts	
Command Modes	SCCP Cisco CallManager configu	ration
Command History	Release	Modification
	12.3(8)T	This command was introduced.
Usage Guidelines	CallManager link is down. When	umber of keepalive retries before SCCP confirms that the Cisco Unified SCCP confirms that the Cisco Unified CallManager link is down (if the at without receiving an Ack reaches the keepalive retries value), Cisco s initiated.
Note	The optimum setting for this comm Adjust the keepalive retries to me	and depends on the platform and your individual network characteristics. et your needs.
Examples	The following example sets the nut that the link is down to seven:	mber of times that a Cisco Unified CallManager retries before confirming
	Router(conf-sccp-ccm) # keepaliv	e retries 7
Related Commands	Command	Description
	keepalive timeout	Sets the length of time between keepalive messages from SCCP to Cisco Unified CallManager.

Command	Description
sccp ccm group	Creates a Cisco CallManger group and enters the SCCP Cisco CallManager configuration mode.

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keepalive target

To identify Session Initiation Protocol (SIP) servers that will receive keepalive packets from the SIP gateway, use the **keepalive target** command in SIP user-agent configuration mode. To disable the **keepalive target** command behavior, use the **no** form of this command.

keepalive target {{{ipv4:address| ipv6:address}[:port] | dns:host}| [tcp [tls]] | [udp]| [secondary]} no keepalive target [secondary]

Syntax Description

ipv4: address	IP address (in IP version 4 format) of the primary or secondary SIP server to monitor.
ipv6: address	IPv6 address of the primary or secondary SIP server to monitor.
: port	(Optional) SIP port number. Default SIP port number is 5060.
dns: hostname	DNS hostname of the primary or secondary SIP server to monitor.
tcp	(Optional) Sends keepalive packets over TCP.
tls	(Optional) Sends keepalive packets over Transport Layer Security (TLS).
udp	(Optional) Sends keepalive packets over User Datagram Protocol (UDP).
secondary	(Optional) Associates the IP version 4 address or the domain name system (DNS) hostname to a secondary SIP server to monitor.

Command Default No keepalives are sent by default from SIP gateway to SIP gateway. The SIP port number is 5060 by default.

Command Modes SIP user-agent configuration (config-sip-ua)

Command History	Release	Modification
	12.4(6)T	This command was introduced.
	12.4(22)T	Support for IPv6 was added.

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Usage Guidelines
                     The primary or secondary SIP server addresses are in the following forms: dns:example.sip.com or
                     ipv4:172.16.0.10.
Examples
                     The following example sets the primary SIP server address and defaults to the UDP transport:
                     sip-ua
                      keepalive target ipv4:172.16.0.10
                     The following example sets the primary SIP server address and the transport to UDP:
                     sip-ua
                      keepalive target ipv4:172.16.0.10 udp
                     The following example sets both the primary and secondary SIP server address and the transport to UDP:
                     sip-ua
                      keepalive target ipv4:172.16.0.10 udp
                      keepalive target ipv4:172.16.0.20 udp secondary
                     The following example sets both the primary and secondary SIP server addresses and defaults to the UDP
                     transport:
                     sip-ua
                      keepalive target ipv4:172.16.0.10
                      keepalive target ipv4:172.16.0.20 secondary
                     The following example sets the primary SIP server address and the transport to TCP:
                     sip-ua
                      keepalive target ipv4:172.16.0.10 tcp
                     The following example sets both the primary and secondary SIP server addresses and the transport to TCP:
                     sip-ua
                      keepalive target ipv4:172.16.0.10 tcp
                      keepalive target ipv4:172.16.0.20 tcp secondary
                     The following example sets the primary SIP server address and the transport to TCP and sets security to TLS
                     mode:
                     sip-ua
                      keepalive target ipv4:172.16.0.10 tcp tls
                     The following example sets both the primary and secondary SIP server addresses and the transport to TCP
                     and sets security to the TLS mode:
                     sip-ua
                      keepalive target ipv4:172.16.0.10 tcp tls
                      keepalive target ipv4:172.16.0.20 tcp tls secondary
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Related Co	mmands
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Command	Description
busyout monitor keepalive	Selects a voice port or ports to be busied out in cases of a keepalive failure.

Command	Description
keepalive trigger	Sets the trigger count to the number of Options message requests that must consecutively receive responses from the SIP servers in order to unbusy the voice ports when in the down state.
retry keepalive	Sets the retry keepalive count for retransmission.
timers keepalive	Sets the timers keepalive interval between sending Options message requests when the SIP server is active or down.

keepalive timeout

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To set the length of time between keepalive messages from Skinny Client Control Protocol (SCCP) to Cisco Unified CallManager, use the **keepalive timeout**command in SCCP Cisco CallManager configuration mode. To reset the length of time to the default value, use the **no** form of this command.

keepalive timeout seconds

no keepalive timeout

Syntax Description	seconds		Time between keepalive messages. Range is 1 to 180. Default is 30.
Command Default	30 seconds		
Command Modes	SCCP Cisco CallManager co	onfiguration	
Command History	Release	Modificat	ion
	12.3(8)T	This com	nand was introduced.
		by the keepalive retries of	e unless the number of keepalive (messages without an command. As of now, the SCCP protocol uses the value
Note	The optimum setting for this of Adjust the keepalive timeour		platform and your individual network characteristics. s.
Examples	The following example sets 120 seconds (2 minutes):	the length of time betwee	n Cisco Unified CallManager keepalive messages to
	Router(config-sccp-ccm)# k	eepalive timeout 120	
Related Commands	Command		Description
	keepalive retries		Sets the number of keepalive retries from SCCP to Cisco Unified CallManager.

Command	Description
sccp ccm group	Creates a Cisco CallManger group and enters SCCP Cisco CallManager configuration mode.

keepalive trigger

The trigger count represents the number of Options message requests that must consecutively receive responses from the SIP servers when in the down state in order to unbusy the voice ports, use the **keepalive trigger** command in SIP user agent configuration mode. To restore to the default value of 3 seconds, use the **no** form of this command.

keepalive trigger count

no keepalive trigger count

Syntax Description	count	Keepalive trigger value in the range from 1 to 10. The default value is 3.
Command Default	The default value for the keepalive trigger	is 3.
Command Modes	SIP user agent configuration	
Command History	Release	Modification
	12.4(6)T	This command was introduced.
Usage Guidelines Examples	from the SIP servers in order to unbusy th The following example sets a time interval a	otions message requests that must be consecutively receive responses e voice ports when in the down state. The default is 3. Ifter the number of Options message requests that must consecutively order to unbusy the voice ports when in the down state. The trigger e:
Related Commands	Command	Description
	busyout monitor keepalive	Selects a voice port or ports to be busied out in cases of a keepalive failure.
	keepalive target	Identifies a SIP server that will receive keepalive packets from the SIP gateway.

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Command	Description
retry keepalive	Sets the retry keepalive for retransmission.
timers keepalive	Sets the time interval between sending Options message requests when the SIP server is active or down.