

Cisco Unified SIP Proxy SIP Server Commands

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- server-group sip element-retries
- server-group sip global-load-balance
- server-group sip global-ping
- server-group sip group
 - element ip-address (SIP server group)
 - element reference
 - failover-resp-code
 - lb-type
 - ping (SIP server group)
- server-group sip retry-after
- server-group sip ping-503
- server-group sip ping-options
 - method (SIP server group ping-options)
 - ping-type
 - timeout

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show status server-group sip

server-group sip element-retries

To configure the number of retries for group elements in all SIP server groups, use the **server-group sip** element retries command in Cisco Unified SIP Proxy configuration mode. To restore the default value, use the **no** form of this command.

server-group sip element retries {**tcp** | **tls** | **udp**} *number-of-retries*

no server-group sip element retries {tcp | tls | udp}

Syntax Description	tcp	Specifies TCP as the transport protocol of the listener.	
	tls	Specifies TLS as the transport protocol of the listener.	
	udp	Specifies UDP as the transport protocol of the listener. This is the default value.	
	number-of-retries	Maximum number of consecutive failed attempts to send a request to a server group element via the specified protocol before the element is considered down. A failed attempt can occur because of a timeout, ICMP error, or receipt of a failure response (configured via the failover-response command). The valid range is from 0 to 65535. The default number of retries for the transport protocols is 1 for TCP, 1 for TLS, and 2 for UDP.	
Command Default	UDP is the default transport, and the default number of retries for UDP is 2.		
Command Modes	Cisco Unified SIP Proxy configura	tion (cusp-config)	
Command History	Cisco Unified SIP Proxy Version	Modification	
	1.0	This command was introduced.	
Usage Guidelines	group element via the specified pro occur because of a timeout or netw	maximum number of failed attempts to send a request to a server btocol before the element is considered down. A failed attempt can ork error. ad applies to all SIP server group elements.	
Examples	The following example sets the retry value for UDP to 5: se-10-0-0(cusp-config) > server-group sip element-retries udp 5		
	The following example sets the retry value for UDP to the default value: se-10-0-0(cusp-config) > no server-group sip element-retries udp		

Description	
Configures the load balance value for all SIP server groups.	
Enables global pinging for all SIP server groups.	
Configures the ping options for the SIP server group.	
Configures the failover response timeout value for the SIP server group.	

server-group sip global-load-balance

To configure the load balancing algorithm for all SIP server groups, use the **server-group sip global-local-balance** command in Cisco Unified SIP Proxy configuration mode. To return the load balancing algorithm to the default value for all global SIP server groups, use the **no** form of this command.

server-group sip global-load-balance { call-id | highest-q | request-uri | to-uri | weight }

no server-group sip global-load-balance

Syntax Description	call-id	Specifies that a hash algorithm with Call-ID is performed to select an element. This is the default value.	
	highest-q	Specifies that the first element in the list of available elements with the same highest q-value is selected.	
	request-uri	Specifies that a hash algorithm with a request URI is performed to select an element.	
	to-uri	Specifies that a hash algorithm with a To header URI is performed to select an element.	
	weight	Specifies that the element is selected proportional to its weight relative to the weights of other elements of the same q-value. This value is only applicable if implementing weight-based routing.	
Command Default	The call-id load balancing algorithm is used.		
Command Modes	Cisco Unified SIP Proxy configura	tion (cusp-config)	
Command History	Cisco Unified SIP Proxy Version	Modification	
	1.0	This command was introduced.	
Usage Guidelines	to handle the request. If more than	erver group, the available element with the highest q-value is selected one available element shares the same highest q-value, the load nines which of these elements is the next hop.	
	When multiple elements are assigned the same highest q-value, the first element must reach its maximum load capacity before the next element in the list is utilized. Because of this cascading load balancing behavior, we recommend that the highest-q algorithm only be used when all server group elements have a different q-values.		
	If you use one of the hash algorithms (request-uri , call-id , or to-uri), although the hash algorithm is deterministic, the load is distributed over these elements based on the value of the key. If the element selected by the hash algorithm is a reference to another server group, the selection procedure is also recursively applied to that server group.		

Note		load-balancing algorithm for all SIP server groups. After you ange the load-balancing algorithm for a specific SIP server group erver group configuration mode.	
Examples	The following example configures the based on call-id:	ne load balancing algorithm for all global SIP server groups to be	
	se-10-0-0(cusp-config)> server-group sip global-load-balance call-id		
	The following example configures the load balancing algorithm for all global SIP server groups to be based on request URI:		
	se-10-0-0(cusp-config)> server-group sip global-load-balance request-uri		
	The following example configures th default value (request URI):	ne load balancing algorithm for all global SIP server groups to the	
	<pre>se-10-0-0-0(cusp-config)> no ser</pre>	ver-group sip global-load-balance	
Related Commands	Command	Description	
	server-group sip element-retries	Configures the number of retries for a SIP server group element.	
	server-group sip global-ping	Enables global pinging for all SIP server groups.	
	server-group sip ping-options	Configures the ping options for the SIP server group.	
	server-group sip retry-after	Configures the failover response timeout value for the SIP server	

group.

server-group sip global-ping

To enable global pinging for all SIP server groups, use the **server-group sip global-ping** command in Cisco Unified SIP Proxy configuration mode. To disable global pinging for all SIP server groups, use the **no** form of this command.

server-group sip global-ping

no server-group sip global-ping

Syntax Description	This command has no arguments or keywords.		
Command Default	Global pinging for all SIP server groups is disabled.		
Command Modes	Cisco Unified SIP Proxy configuration (cusp-config)		
Command History	Cisco Unified SIP Proxy Version	Modification	
	1.0	This command was introduced.	
Usage Guidelines	Use this command to enable and disable the monitoring of the server group element status globally through the ping mechanism. Configure the ping options using the server-group sip ping-options command.		
Examples	The following example enables glob	al pinging for a SIP server group:	
	<pre>se-10-0-0(cusp-config)> server-group sip global-ping</pre>		
Related Commands	Command	Description	
	server-group sip element-retries	Configures the number of retries for a SIP server group element.	
	server-group sip global-load-balance	Configures the load balance value for all SIP server groups.	
	server-group sip ping-options	Configures the ping options for the SIP server group.	
	server-group sip retry-after	Configures the failover response timeout value for the SIP server group.	

server-group sip group

To configure a SIP server group and enter SIP server group configuration mode, use the **server-group sip group** command in Cisco Unified SIP Proxy configuration mode. To remove the SIP server group, use the **no** form of this command.

server-group sip group server-group-name network

no server-group sip group server-group-name network

	server-group-name	Speci	fies the SIP server group name.
		Note	The server-group-name that is used is inserted into the SIP URI of the outgoing request. Some devices, such as Cisco Unified CM, validate the URI of requests before processing, so care should be taken when configuring the server group name. The end device might need to be configured with a Fully Qualified Domain Name (FQDN) to allow for this functionality.
	network	-	fies the previously configured network interface to use for P server group.
nd Default	No SIP server group is con	figured.	
nd Modes	Cisco Unified SIP Proxy configuration (cusp-config)		
Command History	Cisco Unified SIP Proxy Version Modification		
nd History	Cisco Unified SIP Proxy Ve	rsion Modif	ication
nd History	Cisco Unified SIP Proxy Ve		ication command was introduced.
nd History Guidelines	1.0	This c	
	1.0 You must configure the net This command requires that	This of work specified b t you use the con command after th	command was introduced. y the <i>network</i> argument before using this command.
Guidelines	1.0 You must configure the net This command requires that You must use the commit of server group can become act	This of work specified b t you use the con command after the ctive.	y the <i>network</i> argument before using this command. Imit command for the configuration changes to take effect. the server group elements have been configured before the proup "sg1" that will use the network named "internal" and

Related Commands

Command	Description
commit	Enables configuration changes for selected
	Cisco Unified SIP Proxy commands to take effect.
element ip-address (SIP server	Creates an IP element for a SIP server group and determines its
group)	characteristics.
element reference	Creates a reference element for a SIP server group and
	determines its characteristics.
failover-resp-code	Configures a failover response code for a SIP server group.
lb-type	Configures the load balancing type for a single SIP server group
ping (SIP server group)	Enables pinging for the server group.
server-group sip element-retries	Configures the number of retries for a SIP server group element
server-group sip	Configures the load balance value for all SIP server groups.
global-load-balance	
server-group sip global-ping	Enables global pinging for all SIP server groups.
server-group sip ping-options	Configures the ping options for the SIP server group.
server-group sip retry-after	Configures the failover response timeout value for the SIP server
	group.
show status server-group sip	Displays the status of all SIP server groups or a single SIP server
	group.

element ip-address (SIP server group)

To create an IP element for a SIP server group and determine its characteristics, use the **element ip-address** command in SIP server group configuration mode. To remove the IP element from a SIP server group, use the **no** form of this command.

element ip-address ipaddress port {udp | tcp | tls} [q-value q-value] [weight weight]

no element ip-address *ipaddress port* {**udp** | **tcp** | **tls**} [**q-value** *q-value*] [**weight** *weight*]

Syntax Description	ipaddress	Specifies the interface host name or IP address of the server group element.
	port	Specifies the port used by the server group element. Valid values are from 1024 to 65535. The default is 5060.
	udp	Specifies UDP as the transport type of the server group element. This is the default value.
	tcp	Specifies TCP as the transport type of the server group element.
	tls	Specifies TLS as the transport type of the server group element.
	q-value <i>q-value</i>	(Optional) Specifies a real number that specifies the priority of the server group element with respect to others in the server group. Valid values are from 0.0 to 1.0. The default q-value is 1.0.
	weight weight	(Optional) Specifies the percentage assigned to the IP element in the server group if implementing weight-based routing. The valid range is from 0 to 100. The default weight is 0.
Command Default	The SIP server group is not configuration (cu	
Command Modes	SIP server group configuration (cu	sp-config-sg)
Command Modes Command History	SIP server group configuration (cu Cisco Unified SIP Proxy Version	sp-config-sg) Modification
Command Modes Command History	SIP server group configuration (cu Cisco Unified SIP Proxy Version 1.0	sp-config-sg) Modification This command was introduced.
Command Modes Command History Usage Guidelines	SIP server group configuration (cu Cisco Unified SIP Proxy Version 1.0 This command requires that you us	sp-config-sg) Modification

The following example creates an element to the server group using TCP with a q-value of 0.5 and a weight of 0:

se-10-0-0(cusp-config)> server-group sip sg1
se-10-0-0(cusp-config-sg)> element ip-address 10.1.2.3 5060 tcp q-value 0.5

The following example removes the element from the server group:

```
se-10-0-0(cusp-config)> server-group sip sg1
se-10-0-0(cusp-config-sg)> no element ip-address 10.1.2.3 5060 tcp
```

Related Commands	Command	Description
	commit	Enables configuration changes for selected Cisco Unified SIP Proxy commands to take effect.
	element reference	Creates a reference element for a SIP server group and determines its characteristics.
	server-group sip group	Configures a SIP server group.

element reference

To create a reference element for a SIP server group and determine its characteristics, use the **element reference** command in SIP server group configuration mode. To remove the reference element from a SIP server group, use the **no** form of this command.

element reference *reference* [q-value *q-value*] [weight weight]

no element reference reference

Syntax Description	reference	Specifies the name of an existing server group.
•	q-value <i>q-value</i>	(Optional) A real number that specifies the priority of the server group element with respect to others in the server group. Valid values are from 0.0 to 1.0. The default q-value is 1.0.
	weight weight	(Optional) The percentage assigned to the reference element if implementing weight-based routing. The valid range is from 0 to 100. The default weight is 0.
Command Default	The reference element is not config	ured.
Command Modes	SIP server group configuration (cus	sp-config-sg)
Command History	Cisco Unified SIP Proxy Version	Modification
ooninana motory	1.0	This command was introduced.
Usage Guidelines		
	1.0	
Usage Guidelines	1.0 This command requires that you use The following example adds the ser of 0 (the default):	This command was introduced. e the commit command for the configuration changes to take effect. rver group element to the group with a q-value of 1.0 and a weight
Usage Guidelines	1.0 This command requires that you use The following example adds the ser of 0 (the default): se-10-0-0.0 (cusp-config) > serve se-10-0-0.0 (cusp-config-sg) > el	This command was introduced. e the commit command for the configuration changes to take effect. ever group element to the group with a q-value of 1.0 and a weight er-group sip sg1 ement reference sg2
Usage Guidelines	1.0 This command requires that you use The following example adds the ser of 0 (the default): se-10-0-0.0 (cusp-config) > serve se-10-0-0.0 (cusp-config-sg) > el	This command was introduced. e the commit command for the configuration changes to take effect. ever group element to the group with a q-value of 1.0 and a weight er-group sip sg1

The following example removes the element from the server group:

se-10-0-0(cusp-config)> server-group sip sg1
se-10-0-0(cusp-config-sg)> no element reference sg2

Related Commands

mands	Command	Description
	commit	Enables configuration changes for selected
		Cisco Unified SIP Proxy commands to take effect.
	element ip-address (SIP server	Creates an IP element for a SIP server group and determines its
	group)	characteristics.
	server-group sip group	Configures a SIP server group.
	server-group sip group	Configures a SIP server group.

failover-resp-code

To configure a failover response code for a SIP server group, use the **failover-resp-code** command in SIP server group configuration mode. To remove the failover response code, use the **no** form of this command.

failover-resp-code response-codes [- response-codes] [, response-codes]

no failover-resp-code

Syntax Description	response-codes	The response code(s) that indicates the next-hop server is unable to process the request. The valid values are numbers between 500 and 599.
Command Default	There is no response code which w	ill trigger failover.
Command Modes	SIP server group configuration (cusp-config-sg)	
Command History	Cisco Unified SIP Proxy Version	Modification
	1.0	This command was introduced.
<u>Note</u>	This command requires that you us	e the commit command for the configuration changes to take effect.
Note	This command requires that you us	e the commit command for the configuration changes to take effect.
Examples	506, 507, 580 trigger failover to th	
	<pre>se-10-0-0(cusp-config)> sip server-group sg1 se-10-0-0(cusp-config-sg)> failover-resp-code 503 , 505 - 507 , 580</pre>	
	The following example configures the failover response code so that only 500 and 503 responses trigger failover to the next server group element:	
	se-10-0-0-0(cusp-config)> sip : se-10-0-0-0(cusp-config-sg)> f:	
	The following example configures to the next server group element:	the failover response code so that no response codes trigger failover
	se-10-0-0-0(cusp-config)> sip : se-10-0-0-0(cusp-config-sg)> n	

Related Commands

Command	Description
commit	Enables configuration changes for selected
	Cisco Unified SIP Proxy commands to take effect.
element ip-address (SIP server	Creates an IP element for a SIP server group and determines its
group)	characteristics.
element reference	Creates a reference element for a SIP server group and
	determines its characteristics.
lb-type	Configures the load balancing type for a single SIP server group.
ping (SIP server group)	Enables pinging for the server group.
server-group sip group	Configures a SIP server group.

lb-type

To configure the load balancing algorithm for the SIP server group, use the **lb-type** command in SIP server group configuration mode. To remove the load balancing algorithm from the SIP server group and restore the default value, use the **no** form of this command.

lb-type {global | highest-q | request-uri | call-id | to-uri | weight }

no lb-type {global | highest-q | request-uri | call-id | to-uri | weight }

Syntax Description	global	Applies the load balancing type set for all SIP server groups using the server-group sip global-load-balance command. This is the default value.	
	highest-q	Specifies that the first element in the list of available elements with the same highest q-value is selected.	
	request-uri	Specifies that the load balancing algorithm is based on the Request-URI header of the outgoing request.	
	call-id	Specifies that the load balancing algorithm is based on the Call-ID of the outgoing request.	
	to-uri	Specifies that the load balancing algorithm is based on the To-URI header of the outgoing request.	
	weight	Specifies that the element will be selected proportional to its weight relative to the weights of other elements of the same q-value. This value is only applicable if implementing weight-based routing.	
Command Default	The global keyword is the default.		
Command Default	The global keyword is the default. SIP server group configuration (cu	sp-config-sg)	
		sp-config-sg) Modification	
Command Modes	SIP server group configuration (cu		
Command Modes	SIP server group configuration (cu Cisco Unified SIP Proxy Version 1.0 When multiple elements are assigned load capacity before the next element	Modification	
Command Modes	SIP server group configuration (cu Cisco Unified SIP Proxy Version 1.0 When multiple elements are assigned load capacity before the next element behavior, we recommend that the h different q-values. This command applies a load balant	Modification This command was introduced. d the same highest q-value, the first element must reach its maximum ent in the list is utilized. Because of this cascading load balancing	

Examples

The following example configures the load balancing type for a SIP server group to global:

```
se-10-0-0(cusp-config)> server-group sip sg1
se-10-0-0(cusp-config-sg)> lb-type global
```

The following example configures the load balancing algorithm for a SIP server group to request URI:

se-10-0-0.(cusp-config)> server-group sip sg2
se-10-0-0.(cusp-config-sg)> lb-type request-uri

The following example configures the load balancing type for a SIP server group to weight-based routing:

se-10-0-0.(cusp-config)> server-group sip sg3
se-10-0-0.(cusp-config-sg)> lb-type weight

The following example restores the load balancing type to the default value (global):

```
se-10-0-0(cusp-config)> server-group sip sg1
se-10-0-0(cusp-config-sg)> no lb-type weight
```

Related Commands

Command	Description
commit	Enables configuration changes for selected Cisco Unified SIP Proxy commands to take effect.
element ip-address (SIP server group)	Creates an IP element for a SIP server group and determines its characteristics.
element reference	Creates a reference element for a SIP server group and determines its characteristics.
failover-resp-code	Configures a failover response code for a SIP server group.
ping (SIP server group)	Enables pinging for the server group.
server-group sip group	Configures a SIP server group.
server-group sip global-load-balance	Configures the load balance value for all SIP server groups.

ping (SIP server group)

To enable pinging for the server group, use the **ping** command in SIP server group configuration mode. To disable pinging for the server group, use the **no** form of this command.

ping

no ping

Syntax Description	This command has no arguments or keywords.
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Command Default Pinging is enabled for the server group.

Command Modes SIP server group configuration (cusp-config-sg)

Command History	Cisco Unified SIP Proxy Version	Modification
	1.0	This command was introduced.

Usage Guidelines

Even when pinging is enabled for a specific server group, the pinging will not start until the **server-group sip global-ping command** is enabled.

Note

This command requires that you use the **commit** command for the configuration changes to take effect.

Examples

The following example enables pinging on a server group:

se-10-0-0(cusp-config)> server-group sip sg1
se-10-0-0(cusp-config-sg)> ping

The following example disables pinging on a server group:

se-10-0-0.(cusp-config) > server-group sip sg1
se-10-0-0.(cusp-config-sg) > no ping

Related Commands	Command	Description
	commit	Enables configuration changes for selected
		Cisco Unified SIP Proxy commands to take effect.
	element ip-address (SIP server	Creates an IP element for a SIP server group and determines its
	group)	characteristics.
	failover-resp-code	Configures a failover response code for a SIP server group.
	lb-type	Configures the load balancing type for a single SIP server group.
	server-group sip group	Configures a SIP server group.

server-group sip retry-after

To configure the failover response timeout value for all SIP server groups, use the **server-group sip retry-after** command in Cisco Unified SIP Proxy configuration mode. To return the failover response timeout value for all SIP server groups to the default value, use the **no** form of this command.

server-group sip retry-after retry-after-time

no server-group sip retry-after

Syntax Description	retry-after-time	Specifies the number of milliseconds from the time a failover response is received to the time the overloaded server group element can be used again when the response does not contain a Retry-After header field. If the response contains a Retry-After header field, the header field value is used. The minimum value is 0. The default is 0.	
Command Default	The default is 0, meaning that a retr	y takes place without a timeout.	
Command Modes	Cisco Unified SIP Proxy configurati	on (cusp-config)	
Command History	Cisco Unified SIP Proxy Version	Modification	
	1.0	This command was introduced.	
Examples	milliseconds:	he retry timeout value for all SIP server groups to 6,000	
	<pre>se-10-0-0(cusp-config)> server</pre>		
	The following example returns the retry timeout value to 0 (the default):		
	se-10-0-0(cusp-config)> no ser	ver-group sip retry-after	
Related Commands	Command	Description	
	server-group sip element-retries	Configures the number of retries for a SIP server group element.	
	server-group sip global-load-balance	Configures the load balance value for all SIP server groups.	
	server-group sip global-ping	Enables global pinging for all SIP server groups.	
	server-group sip ping-options	Configures the ping options for the SIP server group.	

server-group sip ping-503

To enable the use of ping-503 option to check whether the SIP application service in the remote server element is running or not, use the **server-group sip ping-503** command in Cisco Unified SIP Proxy configuration mode. Cisco Unified SIP Proxy can identify the type of response from the remote server element and decrement the retry count if the response is 503. To restore the SIP ping 503 option to the default value, use the **no** form of this command.

server-group sip ping-503

no server-group sip ping-503

Syntax Description	This command has no arguments or keywords.		
Command Default	Response 503 from any elements is treated as a successful response.		
Command Modes	Cisco Unified SIP Proxy configuration (cusp-config)		
Command History	Cisco Unified SIP Proxy Version Modification		
	9.1.5	This command was introduced.	
Usage Guidelines	Use this command to identify whether the sip element is down or not. If the server-group sip ping-503 command is not configured, the 503 response is treated as successful response. If this command is configured, Cisco Unified SIP Proxy considers the 503 response as remote element down. Ping 503 mode must first exist before you can use the no command.		
Examples	The following example enables the server group sip ping 503 command:		
	se-10-0-0(cusp-config)> server-group sip ping-503		
Related Commands	Command	Description	
	server-group sip element-retries	Configures the number of retries for a SIP server group element.	
	server-group sip global-load-balance	Configures the load balance value for all SIP server groups.	
	server-group sip global-ping	Enables global pinging for all SIP server groups.	
	server-group sip ping-options	Configures the ping options for the SIP server group.	
	server-group sip retry-after	Configures the failover response timeout value for the SIP server group.	

server-group sip ping-options

To configure the ping options for the SIP server group and enter SIP server group ping-options configuration mode, use the **server-group sip ping-options** command in Cisco Unified SIP Proxy configuration mode. To restore the ping options for the commands in the submode to the default values, use the **no** or **default** form of this command.

server-group sip ping-options network ip-address port

no server-group sip ping-options network

default server-group sip ping-options network

Syntax Description	network	Specifie	s the name of the network interface for this ping option.	
	ip-address	Specifies the interface host name or IP address that listens for responses to the SIP pings.		
	DNS lookup to confirm then uses the IP addres If a hostname cannot b		When a hostname is specified, the server performs a DNS lookup to confirm that the host can be resolved. It then uses the IP address when the configuration is saved. If a hostname cannot be resolved, an "IP Address validation failed" error is displayed.	
	port	The UDP port that listens for responses to the SIP pings. The valid range is from 1024 to 65535. The default value is 4000.		
		\wedge		
		Caution	Be sure this port number is different from the port number specified for the server's listener.	
Command Modes	Cisco Unified SIP Proxy configura	tion (cusp-o		
Command History	1.0		nmand was introduced.	
Usage Guidelines		erver group	elements with a transport type of UDP. Ping options must	
Examples	The following example configures address 10.2.3.4:	ping option	s for the SIP server group named "internal" with IP	
	se-10-0-0(cusp-config)> serve	er-group si	ip ping-options internal 10.2.3.4 4000	

The following example sets all the ping options for the SIP server group named "internal" to the default values:

se-10-0-0(cusp-config)> no server-group sip ping-options internal

Related Commands Com

Command	Description
server-group sip element-retries	Configures the number of retries for a SIP server group element.
server-group sip global-load-balance	Configures the load balance value for all SIP server groups.
server-group sip global-ping	Enables global pinging for all SIP server groups.
server-group sip retry-after	Configures the failover response timeout value for the SIP server group.

method (SIP server group ping-options)

To configure the request method for the SIP server group pings, use the **method** command in SIP server group ping-options configuration mode. To remove the request method for the SIP server group pings, use the **no** or **default** form of this command.

method ping-request-method

no method

default method

Syntax Description	ping-request-method- name	The request method for the SIP pings. The default value is OPTIONS.	
Command Default	The default ping request method na	ame is OPTIONS.	
Command Modes	SIP server group ping-options conf	figuration (cusp-config-ping)	
Command History	Cisco Unified SIP Proxy Version	Modification	
	1.0	This command was introduced.	
Usage Guidelines Examples	options for all SIP server groups, u	g option method for a single SIP server group. To apply global ping se the server-group sip global-ping-options command. the SIP server group ping option method to OPTIONS (the default):	
·		er-group sip ping-options internal 10.2.3.4	
	The following example configures the SIP server group ping option method to PING:		
	<pre>se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4 se-10-0-0(cusp-config-ping)> method PING</pre>		
	The following example restores the SIP server group ping option method to the default value:		
	<pre>se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4 se-10-0-0(cusp-config-ping)> no method</pre>		
Related Commands	Command	Description	
	ping-type	Configures the ping type and interval for a SIP server group.	
	server-group sip ping-options	Configures the ping options for the SIP server group.	
	timeout	Configures the ping timeout interval for a SIP server group.	

ping-type

To configure the ping type and interval for a SIP server group, use the **ping-type** command in SIP server group ping-options configuration mode. To restore the default values, use the **no** or **default** forms of this command.

ping-type {proactive | reactive | adaptive } interval_1 interval_2

no ping-type

default ping-type

Syntax Description	proactive	Specifies that pinging is performed to both up and down elements, and both are pinged at the same interval.				
	reactive	Specifies that pinging is performed to only down elements. This is the default value. Specifies that pinging is performed to both up and down elements, and both are pinged at different intervals. Specifies the consecutive ping interval in milliseconds. For adaptive pinging, this value configures the down element ping interval. The default value is 1,000 milliseconds.				
	adaptive					
	interval_1					
	interval_2	(Required for adaptive pinging only) Specifies the consecutive ping interval for up elements.				
Command Default	Reactive pinging is performed at in	tervals of 5,000 milliseconds.				
Command Modes	SIP server group ping-options conf					
Command History	Cisco Unified SIP Proxy Version	Modification				
	1.0	This command was introduced.				
Usage Guidelines	To prevent pings from being sent out in bursts, elements are not pinged simultaneously; they are pinged at a specified interval. For example, suppose the ping interval is set to 50 milliseconds and there are three elements configured for a server group. A ping is sent to the first element. After 50 milliseconds, a ping is sent to the second element. Finally, after an additional 50 milliseconds, a ping is sent to the third element.					
Examples	The following example configures reactive pinging for the server group with a ping interval of 1,000 milliseconds:					
	<pre>se-10-0-0-0(cusp-config)> serve se-10-0-0-0(cusp-config-ping)></pre>	er-group sip ping-options internal 10.2.3.4				

The following example configures proactive pinging for the server group with a ping interval of 2,000 milliseconds:

se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4
se-10-0-0(cusp-config-ping)> ping-type proactive 2000

The following example configures adaptive pinging for the server group with a ping interval of 2,000 milliseconds for down elements and 1,000 milliseconds for up elements:

se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4
se-10-0-0(cusp-config-ping)> ping-type adaptive 1000 2000

The following example restores the default ping type values to the server group (reactive with an interval of 5,000 milliseconds:

se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4
se-10-0-0(cusp-config-ping)> no ping-type

Creates an IP element for a SIP server group and determines its haracteristics.
Configures a failover response code for a SIP server group.
Configures the load balancing type for a single SIP server group.
Enables pinging for the server group.
Configures a SIP server group.
2

timeout

To configure the ping timeout interval for a SIP server group, use the **timeout** command in Cisco Unified SIP Proxy SIP server group ping-options configuration mode. To remove the ping timeout interval from the SIP server group and return to the default value, use the **no** or **default** form of this command.

timeout ping-timeout

no timeout

default timeout

Syntax Description	ping-timeout	Specifies the maximum number of milliseconds between a ping and a response before the ping is considered unsuccessful. The minimum allowed value is 0. The default value is 500.			
Command Default	500 milliseconds				
Command Modes	Cisco Unified SIP Proxy SIP server group ping-options configuration (cusp-config-ping)				
Command History	Cisco Unified SIP Proxy Version	Modification			
	1.0	This command was introduced.			
Examples	The following example configures the ping timeout interval for a SIP server group to 500 milliseconds: se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4 se-10-0-0(cusp-config-ping)> timeout 500				
	The following example configures the ping timeout interval for a SIP server group to 1000 milliseconds:				
	<pre>se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4 se-10-0-0(cusp-config-ping)> timeout 1000</pre>				
	The following example restores the ping timeout interval for a SIP server to the default value:				
	<pre>se-10-0-0(cusp-config)> server-group sip ping-options internal 10.2.3.4 se-10-0-0(cusp-config-ping)> no timeout</pre>				
Related Commands	Command	Description			
	method (SIP server group ping-options)	Configures the request method for the SIP server group pings.			
	ping-type	Configures the ping type and interval for a SIP server group.			
	server-group sip ping-options	Configures the ping options for the SIP server group.			

show status server-group sip

To display the status of all SIP server groups or a single SIP server group, use the **show status server-group sip** command in Cisco Unified SIP Proxy EXEC mode.

show status server-group sip [server-group-name]

Syntax Description	server-group-name		(Optional) Display	s the status of a single SIP server group.	
Command Modes	Cisco Unified SIP Prox	y EXEC (cus	p)			
Command History	Cisco Unified SIP Proxy Version		Modification			
	1.0		This command was introduced.			
Examples	The following example	shows sampl	e output fro	om the sh	ow status server-group sip command:	
	se-192-168-20-42 (cus		tus server	-group s	sip	
	Server-group: sg2.ci Address	Transport	Q-Value	Weight	Status	
	192.168.20.6:5061	udp	0.7	0	up	
	192.168.20.6:5062	udp	0.5	0	up	
	Server-group: sgl.ci					
	Address	Transport		5	Status	
	192.1.1.47:5060 192.168.20.6:31000	udp udp	0.5 1.0	0 0	up up	
	se-192-168-20-42(cusp)>					
	Table 1 describes the significant fields shown in the display.					
	Table 1show status server-group sip Field Descriptions					
	Field		Description			
	Servergroup		Displays the name of the SIP server group.			
	Q-Value			Displays a real number that specifies the priority of the server group element with respect to others in the server group.		
	Weight		Displays the percentage assigned to the request-URI or route-URI element in the route group if implementing weight-based routing.			

Related Commands Comm

Status

ands	Command	Description		
	show status serverg-roup radius	Displays the status of all RADIUS server groups or a single RADIUS server group.		
		KADIOS server group.		

Displays the operational status of the SIP server group.







