



Cisco Unified SIP Proxy Radius Server Commands

- `server-group radius group`
- `element ip-address (RADIUS server group)`
- `retransmit-count (RADIUS server group)`
- `retransmit-timeout (RADIUS server group)`
- `show status server-group radius`
- `aaa authentication server remote`
- `aaa policy system`
- `show running-config`

server-group radius group

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

server-group radius group radius_server local-ipaddress

no server-group radius group radius_server local-ipaddress

Syntax Description	radius_server	Specifies one RADIUS server group name.
	<i>local-ipaddress</i>	Specifies the local source IP address to use when the proxy server sends RADIUS messages to the RADIUS server. The local IP address cannot be modified after the group is configured.

Command Default None

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 This command creates a RADIUS server group. The server can load balance accounting messages over the configured RADIUS servers. All accounting messages with the same Acct-Session-ID will go to the same RADIUS server.



Note

You can configure only one RADIUS server group in Cisco Unified SIP Proxy 1.0.

Examples

The following example creates a RADIUS server group:

```
se-10-1-0-0(cusp-config) > server-group radius group radius_server 192.168.20.42
se-10-1-0-0(cusp-config-radius) >
```

The following example removes a RADIUS server group and removes all server-group elements in it:

```
se-10-1-0-0(cusp-config) > no server-group radius group radius_server 192.168.20.42
```

Related Commands	Command	Description
	element ip-address (RADIUS server group)	Creates an IP element for a RADIUS server group and determines its characteristics.
	retransmit-timeout (RADIUS server group)	Configures the retransmit timeout value for the RADIUS server group.
	show status server-group radius	Displays the status of all RADIUS server groups or a single RADIUS server group.

element ip-address (RADIUS server group)

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

element ip-address *ip-address* *port* *shared-secret* [**q-value** *q-value*]

no element ip-address *ip-address* *port*

Syntax Description	<i>ip-address</i>	Specifies the interface host name or IP address of the server group element.
	<i>port</i>	Specifies the port used by the server group element. Valid values are from 1024 to 65535. The default port is 1813 for accounting and 1812 for authentication/authorization.
	<i>shared secret</i>	Specifies the shared secret key between the proxy and the RADIUS server group element.
	q-value <i>q-value</i>	(Optional) Specifies a real number that specifies the priority of the server group element relative to others in the server group. Valid values are from 0.0 to 1.0. The default is 1.0.

Command Default The element for the RADIUS server group is not configured.

Command Modes RADIUS server group configuration (cusp-config-radius)

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


Examples The following example creates an IP element for a RADIUS server group:

```
se-10-1-0-0(cusp-config) > server-group radius group acct-group
se-10-1-0-0(cusp-config-radius) > element ip-address 10.1.2.3 1813 cusp-secret
```

The following example removes an IP element from a RADIUS server group:

```
se-10-1-0-0(cusp-config) > server-group radius group acct-group
se-10-1-0-0(cusp-config-radius) > no element ip-address 10.1.2.3 1813
```

Related Commands	Command	Description
	retransmit-count (RADIUS server group)	Configures the retransmit count value for the RADIUS server group.

 element ip-address (RADIUS server group)

Command	Description
retransmit-timeout (RADIUS server group)	Configures the retransmit timeout value for the RADIUS server group.
server-group radius group	Configures a RADIUS server group and enters server group RADIUS configuration mode.

retransmit-count (RADIUS server group)

To configure the retransmit count value for a RADIUS server group, use the **retransmit-count** command in Cisco Unified SIP Proxy RADIUS server group configuration mode. To restore the default value, use the **no** form of this command.

retransmit-count *count*

no retransmit-count

Syntax Description	<i>count</i>	Specifies the allowable number of retries of a RADIUS request to a RADIUS server. If no successful response is obtained from the RADIUS server after the maximum number of retries, the RADIUS server is marked as being out-of-service. The default value is 3.
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Command Default	Three retries
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Command Modes	Cisco Unified SIP Proxy RADIUS server group configuration (cusp-config-radius)
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Command History	Cisco Unified SIP Proxy Version	Modification
	1.0	This command was introduced.

Examples

The following example configures the retransmit-count value to 5:

```
se-10-1-0-0(cusp-config) > server-group radius group acct-group 192.168.20.42
se-10-1-0-0(cusp-config-radius) > retransmit-count 5
```

The following example restores the default retransmit-count value:

```
se-10-1-0-0(cusp-config) > server-group radius group acct-group 192.168.20.42
se-10-1-0-0(cusp-config-radius) > no retransmit-count
```

Related Commands	Command	Description
	element ip-address (RADIUS server group)	Creates an IP element for a RADIUS server group and determines its characteristics.
	retransmit-timeout(RADIUS server group)	Configures the retransmit timeout value for a RADIUS server group.
	server-group radius group	Configures a RADIUS server group and enters server group RADIUS configuration mode.

retransmit-timeout (RADIUS server group)

To configure the retransmit timeout value for a RADIUS server group, use the **retransmit-time** command in Cisco Unified SIP Proxy RADIUS server group configuration mode. To restore the default retransmit timeout value, use the **no** or **default** form of this command.

retransmit-timeout *timeout*

no retransmit-timeout

Syntax Description	<i>timeout</i>	Specifies the maximum number of milliseconds allowed to wait for a response from a RADIUS server. If no response is received, the server will retry the request up to the retransmit-count value before it determines that the server is not available. The default value is 500.
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Command Default	500 milliseconds
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Command Modes	Cisco Unified SIP Proxy RADIUS server group configuration (cusp-config-radius)
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Command History	Cisco Unified SIP Proxy Version	Modification
	1.0	This command was introduced.

Examples

The following example configures the retransmit-timeout value to 1000:

```
se-10-1-0-0(cusp-config)> server-group radius group acct-group 192.168.20.42
se-10-1-0-0(cusp-config-radius)> retransmit-timeout 1000
```

The following example restores the default retransmit-timeout value:

```
se-10-1-0-0(cusp-config)> server-group radius group acct-group 192.168.20.42
se-10-1-0-0(cusp-config-radius)> no retransmit-timeout
```

Related Commands	Command	Description
	element ip-address (RADIUS server group)	Creates an IP element for a RADIUS server group and determines its characteristics.
	retransmit-count (RADIUS server group)	Configures the retransmit count value for a RADIUS server group.
	server-group radius group	Configures a RADIUS server group and enters server group RADIUS configuration mode.

show status server-group radius

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

show status server-group radius [*server-group-name*]

Syntax Description	<i>server-group-name</i> (Optional) Displays the status of a single RADIUS server group.
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Command Modes	Cisco Unified SIP Proxy EXEC (cusp)
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Command History	Cisco Unified SIP Proxy Version	Modification
	1.0	This command was introduced.

Examples The following example shows sample output from the **show status server-group radius** command:

```
se-10.0.0.0(cusp) > show status server-group radius rgl
```

```
Servergroup: radius_server
Address      Secret      Q-Value  Status
192.168.20.6:1813  cusp-secret  1.0      up
192.168.20.7:1813  cusp-secret  1.0      up
se-192-168-20-42(cusp) >
```

[Table 1](#) describes the significant fields shown in the display.

Table 1 *show status server-group radius Field Descriptions*

Field	Description
Servergroup	Displays the name of the RADIUS server group.
Q-Value	A real number that specifies the priority of the server group element with respect to others in the server group.
Status	Displays the operational status of the RADIUS server group.

Related Commands	Command	Description
	show status server-group sip	Displays the status of all SIP server groups or a single SIP server group.

aaa authentication server remote

To enter AAA authentication submode and configure the AAA authentication server, use the **aaa authentication server remote** command in Cisco Unified SIP Proxy configuration mode..

aaa authentication server remote

Syntax Description	aaa authentication server Specifies the AAA authentication server details.	
Command Default	None	
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	After using this command to enter AAA authentication submode, you can configure the following AAA authentication server properties.	
Examples	The following example creates a AAA authentication server: se-10-64-86-119# configure terminal Enter configuration commands, one per line. End with CNTL/Z. se-10-64-86-119(config)# aaa authentication server remote se-10-64-86-119(config-authserver)# address 10.65.73.150 port 1645 secret mysecret se-10-64-86-119(config-authserver)# exit	
Related Commands	Command	Description
	aaa policy system	To enter AAA policy submode and configure the system AAA policy, use the aaa policy system command in Cisco Unified SIP Proxy configuration mode.

aaa policy system

To enter AAA policy submode and configure the system AAA policy, use the **aaa policy system** command in Cisco Unified SIP Proxy configuration mode..

aaa policy system

Syntax Description	None
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Command Default	None
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Command Modes	Cisco Unified SIP Proxy configuration (cusp-config)
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Command History	Cisco Unified SIP Proxy Version	Modification
	1.0	This command was introduced.

Usage Guidelines	The AAA policy controls the behavior of authentication and authorization.
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Examples	The following example sets the authorization merge attributes of the AAA policy:
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```
se-10-64-86-119# configure terminal
se-10-64-86-119(config)#
se-10-64-86-119(config)# aaa policy system
se-10-64-86-119(config-authpolicy)# authentication-order remote local
se-10-64-86-119(config-authpolicy)# exit
se-10-64-86-119(config)# exit
```

Related Commands	Command	Description
	aaa accounting server remote	To enter AAA accounting submode and configure the AAA accounting server, use the aaa accounting server remote command in Cisco Unified SIP Proxy configuration mode.

show running-config

To display the radius server configured through GUI or CLI, use the **show running-config** command in Cisco Unified SIP Proxy application service EXEC mode.

show running-config

Syntax Description	This command has no arguments or keywords.
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Command Modes	Cisco Unified SIP Proxy application service EXEC
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Command History	Cisco Unified SIP Proxy	
	Version	Modification
	1.0	This command was introduced.

Usage Guidelines	For the Cisco Unified SIP Proxy, the running configuration only displays the radius server configured through GUI or CLI.
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Examples

```
se-10-64-86-119# show running-config
aaa authentication server remote
    address 10.65.73.150 port 1645 credentials hidden
    "JCbjM9fHKjrzArN+Y9J3x1k2B35j0nfGWTYHfemP"
    exit

aaa policy system
    authentication-order remote local
    exit
```

■ show running-config