Cisco Unified SIP Proxy Radius Server Commands

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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.
local-ipaddress	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-10-0-0-0(cusp-config)> server-group radius group radius_server 192.168.20.42
se-10-0-0-0(cusp-config-radius)>
```

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

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

■   **server-group radius group**

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		
	ip-address	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 port is 1813 for accounting and 1812 for authentication/authorization.
	shared secret	Specifies the shared secret key between the proxy and the RADIUS server group element.
	q-value *q-value*	(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-10-0-0-0(cusp-config)> server-group radius group acct-group
se-10-0-0-0(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-10-0-0-0(cusp-config)> server-group radius group acct-group
se-10-0-0-0(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 goup)

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	*count*	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.

Command Default Three retries

Command Modes Cisco Unified SIP Proxy 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 configures the retransmit-count value to 5:

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

The following example restores the default retransmit-count value:

```
se-10-0-0-0(cusp-config)> server-group radius group acct-group 192.168.20.42
se-10-0-0-0(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	*timeout*	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.

Command Default   500 milliseconds

Command Modes   Cisco Unified SIP Proxy 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 configures the retransmit-timeout value to 1000:

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

The following example restores the default retransmit-timeout value:

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

server-group-name	(Optional) Displays the status of a single RADIUS server group.

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

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.

■ **show status server-group radius**

■ show status server-group radius