Cisco Unified SIP Proxy EXEC Commands

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- **configure**
- **copy configuration active**
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configure

To enter Cisco Unified SIP Proxy configuration mode, use the **configure** command in
Cisco Unified SIP Proxy EXEC mode. To exit Cisco Unified SIP Proxy configuration mode, use the **exit**
command.

> **configure**

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

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

Usage Guidelines   Use this command to enter Cisco Unified SIP Proxy configuration mode. From configuration mode you
can enter all configuration submodes. After you enter the **configure** command, the system prompt
changes from *router-name*(cusp)> to *router-name*(cusp-config)>, indicating that the router is in
Cisco Unified SIP Proxy configuration mode. To leave Cisco Unified SIP Proxy configuration mode and
return to the Cisco Unified SIP Proxy EXEC prompt, enter **end**.

Examples   The following example accesses the Cisco Unified SIP Proxy module, then enters
Cisco Unified SIP Proxy EXEC mode, and finally enters Cisco Unified SIP Proxy configuration mode:

```
Router# service-module integrated-service-engine 1/0 session

se-10-1-0-0> cusp
se-10-1-0-0(cusp)> configure
se-10-1-0-0(cusp-config)>
```

Related Commands

Command	Description
cusp	Enters Cisco Unified SIP Proxy EXEC mode.
end	Exits out of Cisco Unified SIP Proxy configuration mode.
exit	Exits out of a Cisco Unified SIP Proxy configuration mode or submode back to the higher mode.

copy configuration active

To copy the active configuration to a specified remote file system, use the following syntax of the **copy configuration active** command in Cisco Unified SIP Proxy EXEC mode.

copy configuration active {*ftp-url* | *pfs-url* | *tftp-url*}

To copy the specified remote file system to the active configuration, use the following syntax of the **copy configuration active** command in Cisco Unified SIP Proxy EXEC mode.

copy {*ftp-url* | *pfs-url* | *tftp-url*} **configuration active**

Syntax Description		
	ftp-url	Specifies the FTP URL that the active configuration will be copied to, or the FTP URL that will be copied to the active configuration.
	pfs-url	Specifies the Public File System (PFS) URL that the active configuration will be copied to, or the PFS URL that will be copied to the active configuration. PFS URLs must be of the format: pfs:/cusp/config/*file_path*.
	tftp-url	Specifies the TFTP URL that the active configuration will be copied to, or the TFTP URL that will be copied to the active configuration.

Command Default   None

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

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

Usage Guidelines   If you copy a remote file system to the active configuration (using the **copy** {*ftp-url* | *pfs-url* | *tftp-url*} **configuration active** syntax), then the system must be rebooted.

Examples   The following example copies an active configuration to a remote file system:

```
se-192-168-20-51(cusp)> copy configuration active ftp://192.168.1.47/pub/cusp/mycfg
Address or name of remote host [192.168.1.47]?
Destination filename [pub/cusp/mycfg]?
Loading configuration to ftp://192.168.1.47/pub/cusp/mycfg: !
[OK - 777 bytes]
777 bytes transferred in 0.029 secs (26793 bytes/sec)
se-192-168-20-51(cusp)>
```

Related Commands	Command	Description
	show configuration active	Displays the active Cisco Unified SIP Proxy configuration.

rollback

To roll back to the most recently-committed configuration when you reboot the Cisco Unified SIP Proxy module, use the **rollback** command in Cisco Unified SIP Proxy EXEC mode.

rollback

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

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

Usage Guidelines   Use the **show configuration active** command to display the committed configuration that is effective after the module is rebooted.

Examples   The following example configures the system to roll back to the most recently-committed configuration when the Cisco Unified SIP Proxy module is rebooted:

```
se-10-1-0-0(cusp)> rollback
```

Related Commands

Command	Description
rollback factory-default	Rolls back the system to the factory default configuration after the Cisco Unified SIP Proxy module is rebooted.
show configuration active	Displays the active Cisco Unified SIP Proxy configuration.

rollback factory-default

To roll back the system to the factory default configuration when you reboot the Cisco Unified SIP Proxy module, use the **rollback factory-default** command in Cisco Unified SIP Proxy EXEC mode.

rollback factory-default

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

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

Usage Guidelines   Use the **show configuration factory-default** command to display the factory-default configuration that is effective after the module is rebooted.

Examples   The following example configures the system to roll back to the factory-default configuration when the Cisco Unified SIP Proxy module is rebooted:

```
se-10-1-0-0(cusp)> rollback factory-default
```

Related Commands

Command	Description
rollback	Rolls back to the most recently-committed configuration when you reboot the Cisco Unified SIP Proxy module.
show configuration factory-default	Displays the factory-default Cisco Unified SIP Proxy configuration.

show fd statistics

To display the maximum number of open file descriptor counts, use the **show fd statistics** command in Cisco Unified SIP Proxy EXEC mode.

show fd statistics

Syntax Description   This command has no arguments or keywords.

Command Default   None

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

Cisco Unified SIP Proxy Version	Modification
8.5.13 and 9.1.4	This command was introduced.

Usage Guidelines   Use the **show fd statistics** command to display the open file descriptor counts.

Examples   The following is sample output from the **show fd statistics** command:

```
se-10-1-0-0(cusp)> show fd statistics
MaxOpenFileDescriptorCount: 25000
OpenFileDescriptorCount: 35
se-10-1-0-0(cusp)#
```

show performance-data cps

Command	Description
rollback factory-default	Rolls back the system to the factory default configuration after the Cisco Unified SIP Proxy module is rebooted.
show configuration active	Displays the active Cisco Unified SIP Proxy configuration.

To display information, including useful call load troubleshooting information, about the number of calls the Cisco Unified SIP Proxy is handling, use the **show performance-data cps** command in Cisco Unified SIP Proxy EXEC mode.

show performance-data cps

Syntax Description   This command has no arguments or keywords.

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

Cisco Unified SIP Proxy Version	Modification
1.1.4	This command was introduced.

Examples   The following example shows Cisco Unified SIP Proxy performance data:

```
se-192-168-20-42(cusp)> show performance-data cps

Rolling average data-
Rolling averages are used for license enforcement and cannot be cleared.
Rolling average for last 5 minutes (cps): 10.0
Rolling values (last ten 30-second windows):
300 300 300 300 300 300 300 300 300 300

Performance data since last clear-
Average call rate (cps): 10.0
Peak call rate (cps): 10.07
Number of dropped calls: 0
Performance data was last cleared at: Tue Sep 15 15:27:05 EDT 2009
```

show route table

To display Cisco Unified SIP Proxy route information for a given table and key based on a specified lookup rule, use the **show route table** command in Cisco Unified SIP Proxy EXEC mode.

show route table *table-name* **key** *key* **rule** [**exact** | **prefix** | **fixed** *number*]

Syntax Description

table *table-name*	Specifies the route table name.
key *key*	Specifies the route table key. The *key* argument can contain the * wildcard.
rule	Specifies the rule to be used to match: exact, prefix, or fixed.
exact	Performs a lookup using the exact match rule of the key in the specified table.
prefix	Performs a lookup using the longest prefix match rule of the key in the specified table.
fixed	Performs a lookup using a fixed number of characters match rule, instead of an exact match, of the key in the specified table.
number	The fixed number of characters to match the key in the specified table

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

Cisco Unified SIP Proxy Version	Modification
1.1.4	This command was introduced.

Examples   The following example shows sample output from the **show route table** command using the prefix match rule:

```
se-10.0.0.0(cusp)> show route table t1 key 1800 rule prefix
 key 1800 default-sip n1
```

The following example shows sample output from the **show route table** command using the exact match rule, where "key 555" does not exist in the route table:

```
se-10.0.0.0(cusp)> show route table t1 key 555 rule exact
No matching route found.
```

Related Commands

Command	Description
key default-sip	Configures the message in the route table to be routed using RFC 3263.
key group	Assigns a route group to a routing table and associates it with a key number.
key policy	Assigns a route policy to a key in a routing table.

Command	Description
key response	Assigns a response code to a key in a routing table.
key route-uri target-destination	Assigns a route-URI to a lookup key in a routing table and replaces the target destination with the specified value in the outgoing SIP request.
key target-destination	Replaces a target destination with the specified value in an outgoing SIP request.
route table	Creates a route table and enters route table configuration mode.
route table file	Loads the routes for a route table from a file.

show routes table

To display the possible multiple Cisco Unified SIP Proxy routes for a given table and key, use the **show routes table** command in Cisco Unified SIP Proxy EXEC mode.

show routes table *table-name* **key** *key* [**max-size** *max-size*]

Syntax Description

table *table-name*	Specifies the route table name.
key *key*	Specifies the route table key. The *key* argument can contain the * wildcard.
max-size *max-size*	Specifies the maximum number of routes to return. The default is 100.

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 routes table** command:

```
se-10.0.0.0(cusp)> show routes table t1 key * max-size 10
First 10 matches in the t1 table that match the key *:
 key k3 default-sip n1
 key k2 request-uri-host-port ahost n1
 key k1 response 408
```

The second column in the output is the route table lookup key. The third column is the route.

Related Commands

Command	Description
key default-sip	Configures the message in the route table to be routed using RFC 3263.
key group	Assigns a route group to a routing table and associates it with a key number.
key policy	Assigns a route policy to a key in a routing table.
key response	Assigns a response code to a key in a routing table.
key route-uri target-destination	Assigns a route-URI to a lookup key in a routing table and replaces the target destination with the specified value in the outgoing SIP request.
key target-destination	Replaces a target destination with the specified value in an outgoing SIP request.
route table	Creates a route table and enters route table configuration mode.
route table file	Loads the routes for a route table from a file.

show status queue

To display the statistics for active SIP queues, use the **show status queue** command in Cisco Unified SIP Proxy EXEC mode.

show status queue

Syntax Description   This command has no arguments or keywords.

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 queue** command:

```
se-192-168-20-51(cusp)> show status queue

Queue Name        Current Length          Active Threads
timer             0                       0
radius            0                       0
st-callback       0                       0
request           0                       0
message           0                       0
response          0                       0
xcl               0                       0

se-192-168-20-51(cusp)>
```

Table 1 describes the significant fields shown in the display.

Table 1   show status queue Field Descriptions

Field	Description
Queue Name	The name of the SIP queue.
Current Length	The current length of the SIP queue.
Active Threads	The number of active threads for the SIP queue.

Related Commands

Command	Description
show configuration active sip network	Displays SIP network interface configuration.
show configuration active sip record-route	Displays SIP record-route configuration.
show status sip	Displays the status of the Cisco Unified SIP Proxy.
sip queue	Creates a SIP queue and enters SIP queue configuration mode.

show status sip

To display the status of the Cisco Unified SIP Proxy, use the **show status sip** command in Cisco Unified SIP Proxy EXEC mode.

show status sip

Syntax Description   This command has no arguments or keywords.

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

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

Usage Guidelines   This command displays active client and server transactions, as well as TCP/TLS writer thread information. This command displays queues that might not be SIP-related.

Examples   The following example shows sample output from the **show status sip** command:

```
se-192-168-20-51(cusp)> show status sip

SIP Stack Status
Client Transactions:    7575
Server Transactions:    3473
Total Threads for TCP/TLS Writer:      0
Min Threads for TCP/TLS Writer:        0
Active Threads for TCP/TLS Writer:     0
se-192-168-20-51(cusp)>
```

Table 2 describes the significant fields shown in the display.

Table 2   show status sip Field Descriptions

Field	Description
Client Transactions	The number of active client transactions.
Server Transactions	The number of active server transactions.
Total Threads for TCP/TLS Writer	The total number of TCP/TLS writer threads.
Min Threads for TCP/TLS Writer	The minimum number of TCP/TLS writer threads.
Active Threads for TCP/TLS Writer	The number of active threads for TCP/TLS writers.

Related Commands	Command	Description
	show configuration active sip network	Displays SIP network interface configuration.
	show configuration active sip record-route	Displays SIP record-route configuration.
	show status queue	Displays the statistics for currently active SIP queues.

show trace options

To display whether trace logging is enabled or disabled, use the **show trace options** command in Cisco Unified SIP Proxy EXEC mode.

show trace options

Syntax Description   This command has no arguments or keywords.

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

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

Usage Guidelines   This command displays levels for any of the configured categories or components.

Examples   The following example shows that trace is enabled at the debug level with category root.

```
se-192-168-20-51(cusp)> show trace options

Trace is enabled.

Category            Level
root                debug
```

Related Commands

Command	Description
trace disable	Disables tracing.
trace enable	Enables tracing.
trace level	Sets the trace level.

trace disable

To disable tracing, use the **trace disable** command in Cisco Unified SIP Proxy EXEC mode. To enable tracing, use the **trace enable** command.

trace disable

Syntax Description

This command has no arguments or keywords.

Command Default

Trace is enabled.

Command Modes

Cisco Unified SIP Proxy EXEC (cusp)

Command History

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

Usage Guidelines

Using the **trace disable** command has the same effect as setting the trace level to **off** using the **trace level** command with the **category** root.

Examples

The following example disables trace:

```
se-192-168-20-51(cusp)> trace disable
```

Related Commands

Command	Description
show trace options	Displays whether trace is enabled or disabled.
trace enable	Enables tracing.
trace level	Sets the trace level.

trace enable

To enable tracing, use the **trace enable** command in Cisco Unified SIP Proxy EXEC mode. To disable tracing, use the **trace disable** command.

trace enable

Syntax Description   This command has no arguments or keywords.

Command Default   Trace is enabled.

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

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

Usage Guidelines   After enabling tracing, you must set the trace level using the **trace level** command.

Examples   The following example enables trace:

```
se-192-168-20-51(cusp)> trace enable
```

Related Commands

Command	Description
show trace options	Displays whether trace is enabled or disabled.
trace disable	Disables tracing.
trace level	Sets the trace level.

trace level

To set the trace level, use the **trace level** command in Cisco Unified SIP Proxy EXEC mode. To turn off trace level, set the trace level to off.

> **trace level [debug | default | error | fatal | info | off | warn] category/component**
> *category/component-name*

Syntax Description

category/component	Log messages from the *category/component-name* subsystem only. Components are basically predefined lists of categories.
category/component-name	Subsystem from which to log messages.
debug	Log messages of debug severity or higher.
default	Use the trace level of the parent.
error	Log messages of error severity or higher.
fatal	Log messages of fatal severity or higher.
info	Log messages of info severity or higher.
off	Do not log messages.
warn	Log messages of warning severity or higher.

Command Default   Trace level is debug category root.

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

Command History

Cisco Unified SIP Proxy Version	Modification
1.0	This command was introduced.
1.1.4	This command was modified.

Usage Guidelines   When trace is enabled using the **trace enable** command, the trace level can be set. In the list order of most logging to least logging, the trace levels are:

- debug
- info
- warning
- error
- fatal

Setting the trace level to **off** has the same effect as using the **trace disable** command if the **category** is root. Setting the trace level to **debug** has a huge performance impact.

The category or component can be used to only log messages for particular features. Because components are basically predefined lists of categories, we recommend that you debug using the component option. Trace level settings are not persistent and are reset after a reboot. The only category available currently is root.

Examples   The following example enables trace at the category root:

```
se-192-168-20-51(cusp)> trace level debug category root
```

The following example enables trace at the routing component:

```
se-192-168-20-51(cusp)> trace level debug component routing
```

Related Commands

Command	Description
show trace options	Displays whether trace is enabled or disabled.
trace disable	Disables tracing.
trace enable	Enables tracing.

trace logsize

To change the logsize, use the **trace logsize** command in Cisco Unified SIP Proxy EXEC mode.

trace logSize

Syntax Description	default	Use the trace logsize of the parent.
	<200-5000>	Define the logsize in MB. The range is from 200 to 5000.

Command Default   By default, this command is disabled.

Command Modes   Cisco Unified SIP Proxy EXEC (cusp)

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

Usage Guidelines   Use this command to increase the logsize from the default of 200Mb to 5Gb capacity.

Examples   The following example displays the two options under the trace logsize command:

```
se-10-104-45-249(cusp)# trace logsize ?
  default          Restore the default log Size, 200 MB
  <200-5000>       Log Size in MB, default 200 MB , min val

200MB
```

The following example displays the logsize and file count defined:

```
se-10-106-97-200(cusp)# trace logFileSize 200 ?
  fileCount        Specify number of files to be generated
se-10-106-97-200(cusp)# trace logFileSize 200 f
se-10-106-97-200(cusp)# trace logFileSize 200 fileCount ?
  <20-500>         Number of trace files to be generated,more number of files
                   with less size, better the performance
se-10-106-97-200(cusp)# trace logFileSize 200 fileCount 20
```

Note   Logsize divided by file count is the size of a single log file. The optimal value of this is 10 MB. By default, the command picks up the value of file count so that the file size is 10MB. If you are configuring the file count, there can be performance impact because of this change.

Related Commands	Command	Description
	trace disable	Disables tracing.
	trace enable	Enables tracing.
	trace level	Sets the trace level.

trace logsize