



Release Notes for Cisco Unified SIP Proxy Release 8.5

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This document describes the new features, system requirements, licensing information, and caveats for Cisco Unified SIP Proxy Release 8.5. Use this document in conjunction with the caveats listed in the [Caveat Resolved in Release 8.5.13, page 16](#).

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Introduction

Cisco Unified SIP Proxy is a high-performance, highly available Session Initiation Protocol (SIP) server for centralized routing and SIP signaling normalization. By forwarding requests to call-control domains, Cisco Unified SIP Proxy provides the means for routing sessions within enterprise and service provider networks. The application is delivered in a network module form factor on the Cisco 2900, Cisco 3800,



Cisco 3900, and Cisco 3900E Series Integrated Services Routers (ISR). Cisco Unified SIP Proxy provides multiple features, including SIP trunk aggregation, name resolution, routing, load balancing, scalability, and high availability.

System Requirements

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Platforms Supported by Cisco Unified SIP Proxy Release 8.5

[Table 1-1](#) lists the platforms supported in Cisco Unified SIP Proxy Release 8.5.

Table 1-1 Cisco Unified SIP Proxy Release 8.5: Supported Platforms

Module	Cisco 2800	Cisco 3800	Cisco 2911 and Cisco 2921	Cisco 2951 and Cisco 3900	Cisco 3900E
NME-CUSP-522	No	Yes	No	Yes ¹	Yes ¹
SM-SRE-700	No	No	Yes	Yes	Yes
SM-SRE-900	No	No	Yes	Yes	Yes
Minimum Cisco IOS version on the Cisco ISR	—	12.4(22)T	15.0(1)M	15.0(1)M	15.1(1)T

1. Requires an SM-NM-ADPTR adapter module.

Determining the Software Version

To determine the software version and the license used, perform the following steps.

-
- Step 1** Open a Telnet session.
 - Step 2** Use telnet to connect to the router using the following command:
`telnet ip-address`
 - Step 3** Enter the user ID and password of the router.
 - Step 4** Enter the following command to enter the command environment:
`enable`
`<router password>`
service-module service-engine slot/port session
 - Step 5** Enter the following command to display the Cisco Unified SIP Proxy software version:
`show software versions`
 - Step 6** Enter the following command to enter the Cisco Unified SIP Proxy execution mode:
`cusp`
 - Step 7** Enter the following command to display the Cisco Unified SIP Proxy software license:

```
show license
```

File Packages for Cisco Unified SIP Proxy Release 8.5

- [Release 8.5.1, page 3](#)
- [Release 8.5.2, page 3](#)
- [Release 8.5.3, page 4](#)
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- [Release 8.5.5, page 4](#)
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- [Release 8.5.7, page 5](#)
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- [Release 8.5.13, page 5](#)

Release 8.5.1

The following list provides details about the file packages available for Cisco Unified SIP Proxy Release 8.5.1 for NME-CUSP-522:

- cusp-k9.nmx.8.5.1.pkg
- cusp-full-k9.nmx.8.5.1.prt1
- cusp-installer-k9.nmx.8.5.1.prt1

The following are the file packages available for Cisco Unified SIP Proxy Release 8.5.1 for the Storage Media Encryption modules. There are additional files because the application can also be installed from the router console.

- cusp-full-k9.sme.8.5.1.prt1
- cusp-k9.sme.8.5.1.key
- cusp-k9.sme.8.5.1.pkg.install.sre.header
- cusp-helper.sme.8.5.1
- cusp-k9.sme.8.5.1.pkg
- cusp-installer-k9.sme.8.5.1.prt1
- cusp-k9.sme.8.5.1.pkg.install.sre

Release 8.5.2

The following list provides details about the file packages available for Cisco Unified SIP Proxy Release 8.5.2 for NME-CUSP-522:

- cusp-k9.nmx.8.5.2.pkg
- cusp-full-k9.nmx.8.5.2.prt1

- cusp-installer-k9.nmx.8.5.2.prt1
- cusp-helper.nmx.8.5.2

The following are the file packages available for Cisco Unified SIP Proxy Release 8.5.2 for the SME modules. There are additional files because the application can also be installed from the router console.

- cusp-full-k9.sme.8.5.2.prt1
- cusp-k9.sme.8.5.2.key
- cusp-k9.sme.8.5.2.pkg.install.sre.header
- cusp-helper.sme.8.5.2
- cusp-k9.sme.8.5.2.pkg
- cusp-installer-k9.sme.8.5.2.prt1
- cusp-k9.sme.8.5.2.pkg.install.sre

Release 8.5.3

The following list provides details about the file packages available for Cisco Unified SIP Proxy Release 8.5.3 for NME-CUSP-522:

- cusp-k9.nmx.8.5.3.pkg
- cusp-full-k9.nmx.8.5.3.prt1
- cusp-installer-k9.nmx.8.5.3.prt1
- cusp-helper.nmx.8.5.3

The following are the file packages available for Cisco Unified SIP Proxy Release 8.5.3 for the SME modules. There are additional files because the application can also be installed from the router console.

- cusp-full-k9.sme.8.5.3.prt1
- cusp-k9.sme.8.5.3.key
- cusp-k9.sme.8.5.3.pkg.install.sre.header
- cusp-helper.sme.8.5.3
- cusp-k9.sme.8.5.3.pkg
- cusp-installer-k9.sme.8.5.3.prt1
- cusp-k9.sme.8.5.3.pkg.install.sre

Release 8.5.4

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.4.

Release 8.5.5

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.5.

Release 8.5.6

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.6.

Release 8.5.7

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.7.

Release 8.5.8

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.8.

Release 8.5.9

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.9.

Release 8.5.12

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.12.

Release 8.5.13

There are no new file packages available for Cisco Unified SIP Proxy Release 8.5.13.

License Information

- [Hardware SKUs for Cisco Unified SIP Proxy Release 8.5, page 5](#)
- [Software SKUs for Cisco Unified SIP Proxy Release 8.5, page 6](#)
- [Evaluation Licenses for Cisco Unified SIP Proxy Release 8.5, page 6](#)
- [Feature Licenses for Cisco Unified SIP Proxy Release 8.5, page 6](#)
- [License Capacity for Cisco Unified SIP Proxy Release 8.5, page 8](#)
- [Open Source Licensing, page 8](#)

Hardware SKUs for Cisco Unified SIP Proxy Release 8.5

[Table 1-2](#) shows the hardware SKUs for Cisco Unified SIP Proxy Release 8.5.

Table 1-2 Cisco Unified SIP Proxy Release 8.5: Hardware SKUs

SKU	Description
NME-CUSP-522-K9	Cisco Unified SIP Proxy Enhanced Network Module (NME)
SM-SRE-700-K9	Service Ready Engine (SRE) Service Module (SM), Single Core, Single Disk
SM-SRE-900-K9	Cisco SRE, Service Module (SM), Dual Core, Dual Disk

Software SKUs for Cisco Unified SIP Proxy Release 8.5

Table 1-3 shows the software SKUs for Cisco Unified SIP Proxy Release 8.5.

Table 1-3 Cisco Unified SIP Proxy Release 8.5: Software SKUs

SKU	Description
SCUSP-NME-8.5-K9	Cisco Unified SIP Proxy Release 8.5 software for NME
SCUSP-SM-8.5-K9	Cisco Unified SIP Proxy Release 8.5 software for SM SRE

Evaluation Licenses for Cisco Unified SIP Proxy Release 8.5

Table 1-4 shows the evaluation licenses for Cisco Unified SIP Proxy Release 8.5.

Table 1-4 Cisco Unified SIP Proxy Release 8.5: Evaluation Licenses

Platform	Term	License
NME-CUSP-522	60 days	CUSP-100
SM-SRE-700	60 days	CUSP-100
SM-SRE-900	60 days	CUSP-200

Feature Licenses for Cisco Unified SIP Proxy Release 8.5



Note

In Cisco Unified SIP Proxy Release 8.5:

- Licensing is based on Cisco Software Licensing.
- Support is provided for evaluation licenses. See the [“Evaluation Licenses for Cisco Unified SIP Proxy Release 8.5”](#) section on page 6.
- To determine the SKU for electronic delivery, add L- before each SKU, for example, the eDelivery SKU for FL-CUSP-2 is L-FL-CUSP-2.
- Feature licenses cannot be rehosted.
- Feature licenses with <number>U<number> in the SKU are upgrade licenses.
- The licensed number of requests per second refers to new incoming SIP requests. Requests that belong to an existing dialog, including SIP responses, are not counted.

Table 1-5 shows the licenses and SKUs for the Cisco Unified SIP Proxy Release 8.5.

Table 1-5 Cisco Unified SIP Proxy Release 8.5: Licenses and SKUs

SKU	Feature License Name	Description	Device
FL-CUSP-2	CUSP-2	Feature license for two SIP requests per second.	Supported in SM-SRE-700-K9 and SM-SRE-900-K9 only.
FL-CUSP-10	CUSP-10	Feature license for ten SIP requests per second.	Applies to all current devices.
FL-CUSP-30	CUSP-30	Feature license for 30 SIP requests per second.	Applies to all current devices.
FL-CUSP-100	CUSP-100	Feature license for 100 SIP requests per second.	Applies to all current devices.
FL-CUSP-200	CUSP-200	Feature license for 200 SIP requests per second.	Applies to SM-SRE-900-K9 only.
FL-CUSP-2U10	CUSP-10	Upgrade license for 2-10 SIP requests per second.	Supported in SM-SRE-700-K9 and SM-SRE-900-K9 only.
FL-CUSP-10U30	CUSP-30	Upgrade license for 10-30 SIP requests per second.	Applies to all current devices.
FL-CUSP-10U100	CUSP-100	Upgrade license for 10-100 SIP requests per second.	Applies to all current devices.
FL-CUSP-30U100	CUSP-100	Upgrade license for 30-100 SIP requests per second.	Applies to all current devices.
FL-CUSP-100U200	CUSP-200	Upgrade license for 100-200 SIP requests per second.	Applies to SM-SRE-900-K9 only.

Table 1-6 shows the licenses per device for the Cisco Unified SIP Proxy Release 8.5.

Table 1-6 Cisco Unified SIP Proxy Release 8.5: Licenses Per Device

Feature License Name	Supported on NME-CUSP-522-K9?	Supported on SM-SRE-700-K9?	Supported on SM-SRE-900-K9?
FL-CUSP-2	No	Yes	Yes
FL-CUSP-10	Yes	Yes	Yes
FL-CUSP-30	Yes	Yes	Yes
FL-CUSP-100	Yes	Yes	Yes
FL-CUSP-200	No	No	Yes

If you order the Cisco Unified SIP Proxy Release 8.5 software and licenses when you order the Cisco Unified SIP Proxy hardware modules and routers, the factory installs the software and licenses on the modules for you. No additional key or code is required to enable the licenses. However, if you order spare licenses after the original hardware purchase, you will get a product activation key (PAK) that can be used to generate a license from <http://www.cisco.com/go/license>.

License Capacity for Cisco Unified SIP Proxy Release 8.5

Table 1-7 shows the license capacity for the Cisco Unified SIP Proxy Release 8.5.

Table 1-7 Cisco Unified SIP Proxy Release 8.5: License Capacity

Platform	License	Enforced Maximum Calls Per Second in Regular Mode	Enforced Maximum Calls Per Second in Lite Mode ¹
NME-CUSP-522-K9	CUSP-10	10	10
NME-CUSP-522-K9	CUSP-30	30	30
NME-CUSP-522-K9	CUSP-100	100	450
SM-SRE-700-K9	CUSP-2	2	5
SM-SRE-700-K9	CUSP-10	10	25
SM-SRE-700-K9	CUSP-30	30	75
SM-SRE-700-K9	CUSP-100	100	450
SM-SRE-900-K9	CUSP-2	2	5
SM-SRE-900-K9	CUSP-10	10	25
SM-SRE-900-K9	CUSP-30	30	75
SM-SRE-900-K9	CUSP-100	100	450
SM-SRE-900-K9	CUSP-200	200	750

1. With the Record-Route feature turned off.

Open Source Licensing

Some components of the software created for Cisco Unified SIP Proxy Release 8.5 are provided through open source or commercial licensing. These components and the associated copyright statements can be found at:

http://www.cisco.com/en/US/products/ps10475/products_licensing_information_listing.html.

New Features and Enhancements

- [Release 8.5.1, page 9](#)
- [Release 8.5.2, page 9](#)
- [Release 8.5.3, page 9](#)
- [Release 8.5.4, page 9](#)
- [Release 8.5.5, page 10](#)
- [Release 8.5.6, page 10](#)
- [Release 8.5.7, page 10](#)
- [Release 8.5.8, page 10](#)
- [Release 8.5.9, page 10](#)
- [Release 8.5.12, page 10](#)

- [Release 8.5.13, page 10](#)

Release 8.5.1

- Created an intuitive and easy-to-use graphical user interface (GUI) that can be used to configure, manage, monitor, and troubleshoot Cisco Unified SIP Proxy. Complete details about how to use the GUI can be found in the [GUI Administration Guide for Cisco Unified SIP Proxy Release 8.5](#) or in the online help in the application.
- Added support for the Cisco Unified SIP Proxy on the SM-SRE-700-K9 and the SM-SRE-900-K9 SRE modules. These service modules are supported only on the Cisco 2900 Series and Cisco 3900 Series routers. Cisco Unified SIP Proxy Release 8.5 continues to be supported on the NME-CUSP-522-K9 module.
- Included the ability to enable or disable the Lite Mode, which provides the ability to run Cisco Unified SIP Proxy at higher call rates than the licensed call rates by disabling the record-route functionality.
- Added enforced licensing using Cisco Software Licensing (CSL). Beginning with Cisco Unified SIP Proxy Release 8.5, software licenses must be installed and activated prior to use.
- Updated the functionality of route tables. You can now have a route table that consists of both routes loaded from a file and routes configured on the system, you no longer have to keep the route table file in the upload location after you have uploaded the information. For more information, see the **route table file** CLI command description in the [CLI Command Reference for Cisco Unified SIP Proxy Release 8.5](#).

Release 8.5.2

- Added support for call admission control for server group elements. Call admission control enables the Cisco Unified SIP Proxy to limit the number of calls sent to each server group element.
- Added performance control support to restrict the number of calls per second that the Cisco Unified SIP Proxy can process.
- Added a SIP message log that captures the SIP messages sent and received by Cisco Unified SIP Proxy. The SIP message log has call search capabilities and can be accessed through the GUI.
- Added a failed call log that can capture the call record details for calls that do not terminate normally. The failed call log has call search capabilities and can be accessed through the GUI.
- Added support for Simple Network Management Protocol (SNMP). SNMP can be configured through the GUI.

Release 8.5.3

Cisco Unified SIP Proxy Release 8.5.3 is a maintenance release. There are no new features.

Release 8.5.4

There are no new features and enhancements introduced in Cisco Unified SIP Proxy Release 8.5.4.

Release 8.5.5

There are no new features and enhancements introduced in Cisco Unified SIP Proxy Release 8.5.5.

Release 8.5.6

There are no new features and enhancements introduced in Cisco Unified SIP Proxy Release 8.5.6.

Release 8.5.7

There are no new features and enhancements introduced in Cisco Unified SIP Proxy Release 8.5.7.

Release 8.5.8

- Added an webex enhancement to control certificate verification on Cisco Unified SIP Proxy for TLS connections.
- Included the ability to increase the logsize from 200MB to 5GB and also to dynamically configure the file count for trace files. For more information, see the **trace logsize** CLI command description in the *CLI Command Reference for Cisco Unified SIP Proxy Release 8.5*.

Release 8.5.9

There are no new features and enhancements introduced in Cisco Unified SIP Proxy Release 8.5.9.

Release 8.5.12

There are no new features and enhancements introduced in Cisco Unified SIP Proxy Release 8.5.12.

Release 8.5.13

- The default value of the file descriptor count was enhanced from 1024 to 25000.
- Introduced **show fd statistics** command that provides information on the maximum file descriptor count and the current open file descriptor count. See [show fd statistics, page 17](#).
- Added tcp and tls options to the **show sip** command that displays the active Transmission Control Protocol (TCP) and Transport Layer Security (TLS) connections at the Cisco Unified SIP Proxy application level. See [show sip, page 18](#).
- Introduced **show tcp connections** command that displays the status of Transmission Control Protocol (TCP) connections at the operating system level. See [show tcp connections, page 22](#).



Note

CLI Command Reference for Cisco Unified SIP Proxy Release 8.5 is not updated with the CLI updates for Cisco Unified SIP Proxy Release 8.5.13.

Installation Notes

For information about installing Cisco Unified SIP Proxy Release 8.5, see the [Installation Guide for Cisco Unified SIP Proxy Release 8.5](#).

Limitations and Restrictions

- [Release 8.5.1, page 11](#)
- [Release 8.5.2, page 11](#)
- [Release 8.5.3, page 11](#)
- [Release 8.5.4, page 12](#)
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- [Release 8.5.12, page 12](#)
- [Release 8.5.13, page 12](#)

Release 8.5.1

The following are the limitations in Cisco Unified SIP Proxy Release 8.5.1:

- CSCtj33506: Starting with Release 8.5, the route table configuration is not part of the standard Cisco Unified SIP Proxy configuration. Therefore, if you roll back the system configuration, the route table configuration is not affected. The route table configuration will continue to be the most recent configuration and not the configuration that was in place during the last commit. The workaround for this limitation is to use the backup and restore feature instead of rolling back the configuration.
- CSCtj23166: Monitor charts do not work with Internet Explorer for HTTPS connections. This issue is a browser compatibility problem with secure connections (HTTPS) and the Adobe Flash Player used for the monitor charts. It only occurs for Internet Explorer versions 7 and 8 using HTTPS connections. The system displays the charts normally with Firefox (for both secure and non-secure connections) and for Internet Explorer when using non-secure connections.
- CSCto14786: Sub-interface creation failed on CUSP SRE700/900 modules.

Release 8.5.2

There are no limitations in Cisco Unified SIP Proxy Release 8.5.2.

Release 8.5.3

There are no limitations in Cisco Unified SIP Proxy Release 8.5.3.

Release 8.5.4

For call admission control to work correctly, record route should be enabled on Cisco Unified SIP Proxy. If the record route is not enabled, call admission control will not work reliably.

Release 8.5.5

There are no limitations in Cisco Unified SIP Proxy Release 8.5.5.

Release 8.5.6

There are no limitations in Cisco Unified SIP Proxy Release 8.5.6.

Release 8.5.7

There are no limitations in Cisco Unified SIP Proxy Release 8.5.7.

Release 8.5.8

There are no limitations in Cisco Unified SIP Proxy Release 8.5.8.

Release 8.5.9

There are no limitations in Cisco Unified SIP Proxy Release 8.5.9.

Release 8.5.12

There are no limitations in Cisco Unified SIP Proxy Release 8.5.12.

Release 8.5.13

- The **show sip tcp connections detail** and **show sip tls connections detail** commands will not have the filter options available for the Cisco Unified SIP Proxy Release 8.5.13. For example, you cannot use “pipe - l” to filter the various connection details.

Caveats

To see the caveats associated with Cisco Unified SIP Proxy Release 8.5, use the Bug Search Tool at: <https://tools.cisco.com/bugsearch/search>.

- [Caveats Resolved in Release 8.5.3, page 13](#)
- [Caveats Resolved in Release 8.5.4, page 13](#)

- [Caveats Resolved in Release 8.5.5, page 14](#)
- [Caveats Resolved in Release 8.5.6, page 14](#)
- [Caveat Resolved in Release 8.5.7, page 14](#)
- [Caveats Resolved in Release 8.5.8, page 15](#)
- [Caveats Resolved in Release 8.5.9, page 15](#)
- [Caveats Resolved in Release 8.5.12, page 15](#)
- [Caveat Resolved in Release 8.5.13, page 16](#)

Caveats Resolved in Release 8.5.3

The following issues were resolved in Cisco Unified SIP Proxy Release 8.5.

Caveat	Description
CSCts08665	Total call stats cannot be reset when CAC is disabled.
CSCts06655	Missing SIP CLI submode post CSCto84029 fixes on CUSP 8.5.2 throttle branch.
CSCts03213	Update Caffiene SIP stack to version 3.1.3.477.
CSCtr57276	SIP message trace can fill disk, resulting in instability/high CPU.
CSCtr49726	CUSP fails to boot if HTTPS access for web-based GUI is turned on.
CSCto91775	Route table lookup should select default route when lookup key is null.
CSCto84029	Ability to configure SIP TCP/TLS connection setup timeout.
CSCtc17438	Corrupted bzImage.

Caveats Resolved in Release 8.5.4

The following issues were resolved in Cisco Unified SIP Proxy Release 8.5.4.

Caveats	Description
CSCtg85558	Monitor GUI: Local system time preferred (instead of GMT).
CSCtw67402	Removal of a route table. CUSP needs a reload to be effective.
CSCtw79164	CUSP must allow fail-over on 4xx responses.
CSCtz53250	Ability to add 'delta' routes to route tables.
CSCtz92146	CUSP GUI shows wrong version after upgrade to 8.5.3.
CSCua95388	CUSP fails platform validation on 8.5.2 with AAA enabled.
CSCuc94401	Route table configuration is lost on reload of CUSP module.
CSCud04241	Cant use remote_ip/request-uri conditions as post-normalization trigger.
CSCue28989	Using default-sip param under route table entry results in call failure.
CSCue29251	Active SIP session Management enhancement around 3xx response handling.
CSCue62401	Upgrade caffeine sip stack to v3.1.3.515.
CSCuf44652	CUSP incorrectly matches trigger condition with remote-ip.

Caveats	Description
CSCug57744	Clicking on CUSP Log file under troubleshoot page results in exception.
CSCuc09411	CAC does not work till Record Route is enabled under Network.

Caveats Resolved in Release 8.5.5

The following issues were resolved in Cisco Unified SIP Proxy Release 8.5.5.

Caveats	Description
CSCuj45984	CUSP TLS connection setup takes a long time and also blocks all the other independent traffic.
CSCtw67422	An option to clear SIP Traces GUI is required.
CSCui62308	Unable to add or modify route group element q value through GUI.
CSCug57702	Editing condition under trigger conditions page does not display the match value.
CSCuj59034	CUSP fails to load cfg during boot when regex(" ") is used to trigger the condition.
CSCug22813	The ability to exclude certain SIP request type in Web or GUI based SIP logging has been enhanced.
CSCuj59116	During precommit or when commit fails, SvrGrp postcommit should happen.
CSCuj59078	Commit fails during startup when route cfg references route policy.
CSCuj53076	Error handling capacity for CSCuf04126 and CSCuj45984 has been enhanced.
CSCuf04126	CUSP 8.5.2 java error changes while committing the configuration.
CSCub86521	The show routes tables command does not work with RuntimeException.
CSCud05831	CUSP stops sending SIP option ping to Server-Group 8.5.3.
CSCui40582	The Struts2 Remote Command Execution used in CUSP is insecure.

Caveats Resolved in Release 8.5.6

The following issues were resolved in Cisco Unified SIP Proxy Release 8.5.6.

Caveats	Description
CSCui91407	CUSP SIP sends signals from an incorrect interface after a period of time.
CSCul89098	Required for read-only cusp configuration from the GUI.

Caveat Resolved in Release 8.5.7

The following issue was resolved in Cisco Unified SIP Proxy Release 8.5.7.

Caveats	Description
CSCun88600	In CUSP options, ping CLI configuration does not work.

Caveats Resolved in Release 8.5.8

The following issue was resolved in Cisco Unified SIP Proxy Release 8.5.8.

Caveats	Description
CSCuo83534	CUSP webex tls feature has been added.
CSCup52102	Trace size defined is for the total log, not per file.
CSCup70061	Element intermittently shows status as up
CSCup48674	Fixed the missing remove button issue in the firefox browser.

Caveats Resolved in Release 8.5.9

The following issues were resolved in Cisco Unified SIP Proxy Release 8.5.9.

Caveats	Description
CSCut63424	Reload with Trace Log file size change on SRE leads to re-install.
CSCut07923	Foundation Linux- Leap second Issue (CUSP, CUE and SRST).
CSCut49094	CUSP gets into hung state.
CSCus72208	Header update using normalization fails in case of date header.
CSCur44783	CUSP normalization scripts do not allow manipulation of SIP headers.
CSCut91199	Thread dump generation support for CUSP.
CSCut98380	CUSP stops ping threads for all the server group elements.
CSCur80088	Trigger Post Normalization issue for REMOTE IP.

Caveats Resolved in Release 8.5.12

The following issues were resolved in Cisco Unified SIP Proxy Release 8.5.12.

Caveats	Description
CSCuu24490	CUSP routing trigger sequences lost after reload
CSCuv79485	3xx response support and correct response for 380
CSCuv79510	JVM caching issue for domain name lookup
CSCuv89105	False element down notifications and thread leak
CSCuq30071	Thread leak with proactive options ping for TCP and UDP elements
CSCuw28772	CUSP retransmissions for 15 times (10min) on a dead socket to VXML Gateway
CSCut68569	Network create using GUI not loading defaults for TCP connection setup timeout
CSCup13062	sip-wire-log is not capturing SIP messages on using TCP
CSCup98118	Normalization of user portion using URI manipulation truncates SIP
CSCux93716	Route table missing after reload

Caveat Resolved in Release 8.5.13

The following issue was resolved in Cisco Unified SIP Proxy Release 8.5.13.

Caveats	Description
CSCva90553	Serviceability changes for TCP/TLS connections
CSCva61035	CUSP is silently discarding SIP messages on established TCP connections
CSCvb23682	Preemption of CLI "show sip tcp connection detail"

**Note**

Though JVM level caching is removed as part of the caveat CSCuv79510, a non-configurable DNS look up caching of approximately 15 minutes is maintained at the OS level. For DNS cache look up at OS level, you can clear the cache using the command **clear ip dns cache**.

Commands and Notes: Release 8.5.13

To see the new and modified commands associated with Cisco Unified SIP Proxy Release 8.5.13, see:

- [show fd statistics](#)
- [show sip](#)
- [show tcp connections](#)

show fd statistics

To display the maximum number of file descriptor counts and current 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	This command was introduced.

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

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

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

show sip

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

```
show sip { message | peg-counting log [tail | options] | tcp | tls [connections {summary | detail
[dumptofile] } ] }
```

Syntax Description

message	Displays the SIP message log.
peg-counting	Displays the SIP peg-counting log.
<i>options</i>	Options for displaying the log file: <ul style="list-style-type: none"> • Display a given number of lines from the end of the log. • Send the output to another command. • Display the most recent entries in the log and keep updating them.
tcp	Displays the SIP TCP connections at the application level.
tls	Displays the SIP TLS connections at the application level.
summary	Displays the SIP TCP or TLS connections summary at the application level.
detail	Displays the SIP TCP or TLS connections details at the application level. <p>Note Detail option has impact on the CPU usage. Hence, it is recommended not to use this option during peak loads. Dumptofile is the recommended option.</p>
dumptofile	Dumps all SIP TCP or TLS connection table logs to the trace.log file at " <i>pfs://cusp/log/trace/</i> " directory at the application level.

Command Modes

Cisco Unified SIP Proxy EXEC (cusp)

Command History

Cisco Unified SIP Proxy Version	Modification
1.0	This command was introduced.
8.5.13	This command was modified to include keywords: tls and tcp .

Usage Guidelines

The SIP message log file rotates every 10 MB or every night and is located at *pfs://cusp/log/sipmsg*. The SIP peg-counting log file rotates every 10 MB or every night also and is located at *pfs://cusp/log/pegcount*.

You can use the **dumptofile** option to get details on the production systems. However, use the **summary** option to get the current information of the SIP TCP or TLS connections.

**Note**

The **show sip tcp connections detail** and **show sip tls connections detail** commands will not have the filter options available for the Cisco Unified SIP Proxy Release 8.5.13. For example, you cannot use “pipe - l” to filter the various connection details.

Examples

The following example shows sample output from the **show sip message log** command:

```
se-10.0.0.0(cusp)# show sip message log

Request received at Wed, 19 Nov 2008 21:01:25,081 GMT on 192.168.20.101 on port 6060 from
the Remote IP 192.168.20.25 on port 6080

INVITE sip:735551212@192.1.1.75:6061 SIP/2.0
Via: SIP/2.0/UDP 192.168.20.5:6080;branch=z9hG4bK-1-0
Max-Forwards: 70
To: sut <sip:735551212@192.1.1.75:6061>
From: sipp <sip:sipp@192.168.20.5:6080>;user=phone;vnd.pimg.port=1;tag=1
Contact: sip:sipp@192.168.20.5
Call-ID:1-7675@192.168.20.5
CSeq: 1 INVITE
Content-Length:135
P-Asserted-Identity: <sip:alice@home1.net>
Cisco-Guid: 1234567890
Subject: Performance Test
Content-Type: application/sdp

v=0
o=user1 53655765 2353687637 IN IP4 192.168.20.5
s=-
c=IN IP4 192.168.20.5
t=0 0
m=audio 6070 RTP/AVP 0
a=rtpmap:0 PCMU/8000

MESSAGE COMPLETE
```

The following example shows sample output from the **show sip peg-counting log** command:

```
se-10.0.0.0(cusp)# show sip peg-counting log
```

Message	Delta In Initial	Delta Out Initial	Delta In Retrans	Delta Out Retrans	Total In Initial	Total Out Initial	Total In Retrans	Total Out Retrans
INVITE	0	0	0	0	0	0	0	0
ACK	0	0	0	0	0	0	0	0
CANCEL	0	0	0	0	0	0	0	0
BYE	0	0	0	0	0	0	0	0
OPTIONS	0	0	0	0	0	0	0	0
REGISTER	0	0	0	0	0	0	0	0
SUBSCRIBE	0	0	0	0	0	0	0	0
NOTIFY	0	0	0	0	0	0	0	0
PRACK	0	0	0	0	0	0	0	0
REFER	0	0	0	0	0	0	0	0
UPDATE	0	0	0	0	0	0	0	0
PUBLISH	0	0	0	0	0	0	0	0
INFO	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0
181	0	0	0	0	0	0	0	0
182	0	0	0	0	0	0	0	0
183	0	0	0	0	0	0	0	0
200	0	0	0	0	0	0	0	0

202	0	0	0	0	0	0	0	0
300	0	0	0	0	0	0	0	0
301	0	0	0	0	0	0	0	0
302	0	0	0	0	0	0	0	0
305	0	0	0	0	0	0	0	0
380	0	0	0	0	0	0	0	0
400	0	0	0	0	0	0	0	0
401	0	0	0	0	0	0	0	0
402	0	0	0	0	0	0	0	0
403	0	0	0	0	0	0	0	0
404	0	0	0	0	0	0	0	0
405	0	0	0	0	0	0	0	0
406	0	0	0	0	0	0	0	0
407	0	0	0	0	0	0	0	0

The following example shows sample output from the **show sip tcp connections detail** command:

```

se-10.0.0.0(cusp)# show sip tcp connections detail
No of connections:166
Fetching connection information will have performance impact, it is recommend to choose
the option of dumping the information to log file Do you want to continue? (yes/no) [no]:
yes
Local IP      Local Port Remote IP      Remote Port
10.64.86.198  6061      10.105.34.180  63549
10.64.86.198  6061      10.105.34.180  63570
10.64.86.198  6061      10.105.34.180  63609
10.64.86.198  6061      10.105.34.180  63658
10.64.86.198  6061      10.105.34.180  63619
10.64.86.198  6061      10.105.34.180  63598
10.64.86.198  6061      10.105.34.180  63555
10.64.86.198  6061      10.105.34.180  63718
10.64.86.198  6061      10.105.34.180  63717
10.64.86.198  6061      10.105.34.180  63566
10.64.86.198  6061      10.105.34.180  63755
10.64.86.198  6061      10.105.34.180  63723
10.64.86.198  6061      10.105.34.180  63750
10.64.86.198  6061      10.105.34.180  63707
10.64.86.198  6061      10.105.34.180  63652
10.64.86.198  6061      10.105.34.180  63674
10.64.86.198  6061      10.105.34.180  63608
10.64.86.198  6061      10.105.34.180  63663
10.64.86.198  6061      10.105.34.180  63728
10.64.86.198  6061      10.105.34.180  63706
10.64.86.198  6061      10.105.34.180  63696
10.64.86.198  6061      10.105.34.180  63614
10.64.86.198  6061      10.105.34.180  63722
10.64.86.198  6061      10.105.34.180  63691
10.64.86.198  6061      10.105.34.180  63560
10.64.86.198  6061      10.105.34.180  63615
10.64.86.198  6061      10.105.34.180  63582
10.64.86.198  6061      10.105.34.180  63729
10.64.86.198  6061      10.105.34.180  63565
10.64.86.198  6061      10.105.34.180  63680
10.64.86.198  6061      10.105.34.180  63734
10.64.86.198  6061      10.105.34.180  63712
10.64.86.198  6061      10.105.34.180  63592
10.64.86.198  6061      10.105.34.180  63587
10.64.86.198  6061      10.105.34.180  63679
10.64.86.198  6061      10.105.34.180  63593
10.64.86.198  6061      10.105.34.180  63733
10.64.86.198  6061      10.105.34.180  63620
10.64.86.198  6061      10.105.34.180  63685
10.64.86.198  6061      10.105.34.180  63653
10.64.86.198  6061      10.105.34.180  63576

```

```

10.64.86.198 6061 10.105.34.180 63669
10.64.86.198 6061 10.105.34.180 63603
10.64.86.198 6061 10.105.34.180 63604
10.64.86.198 6061 10.105.34.180 63581
10.64.86.198 6061 10.105.34.180 63745
10.64.86.198 6061 10.105.34.180 63690
10.64.86.198 6061 10.105.34.180 63571
10.64.86.198 6061 10.105.34.180 63701
10.64.86.198 6061 10.105.34.180 63554

```

<<Enter for MORE>> [confirm]

.....

The following example shows sample output from the **show sip tls connections detail** command:

```

se-10.0.0.0(cusp)# show sip tls connections detail
No of connections:412
Fetching connection information will have performance impact, it is recommended to choose
the option of dumping the information to log file Do you want to continue? (yes/no) [no]:
yes
Local IP      Local Port Remote IP      Remote Port
10.65.125.148 5061      10.105.34.180 48014
10.65.125.148 5061      10.105.34.180 48166
10.65.125.148 5061      10.106.3.105  15221
10.65.125.148 5061      10.105.34.180 48123
10.65.125.148 5061      10.106.3.105  15300
10.65.125.148 5061      10.64.86.70   43748
10.65.125.148 5061      10.105.34.180 48161
10.65.125.148 5061      10.106.3.105  15330
10.65.125.148 5061      10.64.86.70   43726
10.65.125.148 5061      10.106.3.105  15348
10.65.125.148 5061      10.106.3.105  15288
10.65.125.148 5061      10.105.34.180 48177
10.65.125.148 5061      10.105.34.180 48090
10.65.125.148 5061      10.64.86.70   43655
10.65.125.148 5061      10.64.86.70   43623
.....
.....

```

show tcp connections

To display the status of Transmission Control Protocol (TCP) connections, use the **show tcp connections** command in module EXEC mode.

show tcp connections [*summary*]

Syntax Description

<i>summary</i>	(Optional) Displays the summary statement for all the tcp connections for the Cisco Unified SIP Proxy module.
----------------	---

Command History

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

Usage Guidelines

The **show tcp connections** command displays detailed connection information at the operating system level. To obtain information at the application level, use the **show sip tcp connections detail** command.

Examples

The following example shows the current active tcp connections available on the operating system:

```
se-10-64-86-198# show tcp connections
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.1:389          0.0.0.0:*               LISTEN      1634/slapd
tcp        0      0 0.0.0.0:911           0.0.0.0:*               LISTEN      1106/tclsh
tcp        0      0 0.0.0.0:21            0.0.0.0:*               LISTEN      2637/vsftpd
tcp        0      0 0.0.0.0:22            0.0.0.0:*               LISTEN      1108/sshd
tcp        0      0 127.0.0.1:5432        0.0.0.0:*               LISTEN      1824/postmaster
tcp        0  96 10.64.86.198:22        10.196.106.64:62609    ESTABLISHED 2693/sshd:
cuspdt [
tcp        0      0 127.0.0.1:389          127.0.0.1:49865        ESTABLISHED 1634/slapd
tcp        0      0 127.0.0.1:58065        127.0.0.1:12345        ESTABLISHED 2751/cli_xconn
tcp        0      0 127.0.0.1:5432        127.0.0.1:45198        ESTABLISHED 2782/postgres: post
tcp        0      0 127.0.0.1:5432        127.0.0.1:56925        ESTABLISHED 2286/postgres: post
tcp        0      0 127.0.0.1:58064        127.0.0.1:12345        ESTABLISHED 2687/cli_xconn
tcp        0      0 10.64.86.198:22        10.196.106.64:62608    ESTABLISHED 2306/sshd:
cuspdt [
```

Related Documentation

Table 1-8 lists the documentation available for Cisco Unified SIP Proxy Release 8.5:

Table 1-8 *Related Documentation*

Document	Description
Installation Guide for Cisco Unified SIP Proxy Release 8.5	Describes how to install the Cisco Unified SIP Proxy Release 8.5 software, including licenses. Also includes information about moving from Release 1.x to Release 8.5. http://www.cisco.com/en/US/products/ps10475/rod_installation_guides_list.html
CLI Configuration Guide for Cisco Unified SIP Proxy Release 8.5	Contains administrator information, such as maintenance and troubleshooting, for tasks that are performed from the CLI. http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html
CLI Command Reference for Cisco Unified SIP Proxy Release 8.5	Contains descriptions of all the Cisco Unified SIP Proxy Release 8.5-specific CLI commands. http://www.cisco.com/en/US/products/ps10475/rod_command_reference_list.html
GUI Configuration Guide for Cisco Unified SIP Proxy Release 8.5	Contains administrator information, such as maintenance and troubleshooting, for tasks that are performed from the GUI. Includes online help. http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html
Commercial Open Source Information for Cisco Unified SIP Proxy Release 8.5	Lists all the open source software used in this project. http://www.cisco.com/en/US/products/ps10475/products_licensing_information_listing.html
Documentation Roadmap for Cisco Unified SIP Proxy Release 8.5	Lists all the documentation available for Cisco Unified SIP Proxy Release 8.5. http://www.cisco.com/en/US/docs/voice_ip_comm/cusp/rel8_5/roadmap/cuspdocguide.html
Cisco DocWiki	Documentation that is collaborative, which means that Cisco employees, customers, partners, and vendors can all contribute to it. Includes troubleshooting information. http://docwiki.cisco.com/wiki/Cisco_Unified_SIP_Proxy

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