



# Release Notes for Cisco Unified SIP Proxy Release 9.0

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This document describes the new features, system requirements, licensing information, and caveats for Cisco Unified SIP Proxy Release 9.0.

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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. Cisco Unified SIP Proxy provides multiple features, including SIP trunk aggregation, name resolution, routing, load balancing, scalability, and high availability.



Cisco Unified SIP Proxy 9.0 is delivered as an Open Virtual Appliance (OVA) and can be installed as a virtual machine on VMWare ESXi platform. Except High Availability (HA) feature using Hot Standby Route Protocol (HSRP), Cisco Unified SIP Proxy virtual application continues to support all the other features that are supported by Cisco Unified SIP Proxy on a SRE Module. For more information on virtual machine requirements to install Cisco Unified SIP Proxy 9.0, see [“Virtual Machine Requirements for Cisco Unified SIP Proxy” section on page 2.](#)

Cisco Unified SIP Proxy 9.0 supports Cisco Smart Software Licensing. Cisco Smart Software Licensing removes the need for Product Activation Keys (PAKs) and reduces your license activation and registration time. For more information on Cisco Smart Software License, refer to [“License Information” section on page 3.](#)

## System Requirements

- [Virtual Machine Requirements for Cisco Unified SIP Proxy, page 2](#)
- [Determining the Software Version, page 3](#)
- [File Packages for Cisco Unified SIP Proxy Release 9.0, page 3](#)

## Virtual Machine Requirements for Cisco Unified SIP Proxy

Cisco Unified SIP Proxy Release 9.0 software is packaged as an OVA and requires VMware ESXi 5.1 and above. [Table 1](#) provides the information on hardware recommendation for virtualized Cisco Unified SIP Proxy. For more information about deployment and configuration refer to [Installation Guide for Cisco Unified SIP Proxy Release 9.0.](#)



**Note** Cisco Unified SIP Proxy deployment requires 4 GB RAM and 80 GB disk space.

**Table 1** *Virtual Machine Requirements for UCS Platform*

CPS	60 CPS	100 CPS	200 CPS	300 CPS	400 CPS
vCPU	1	2	4	4	4
RAM	4 GB	4 GB	4 GB	4 GB	4 GB
Disk	80 GB	80 GB	80 GB	80 GB	80 GB



**Note** CPU speed is greater than or equal to 2.99 GHz.

**Table 2** *Virtual Machine Requirements for Low Speed Cisco UCS and Cisco UCS (E) Platforms*

<b>CPS</b>	<b>40 CPS</b>	<b>100 CPS</b>	<b>200 CPS</b>	<b>300 CPS</b>	<b>400 CPS</b>
vCPU	1	2	4	6	6
RAM	4 GB	4 GB	4 GB	4 GB	4 GB
Disk	80 GB	80 GB	80 GB	80 GB	80 GB

**Note**

CPU speed is less than 2.99 GHz.

**Caution**

Changing the default log file size impacts the performance of Cisco Unified SIP Proxy.

**Caution**

Over subscription of hardware by virtual machines running on hypervisor is not supported.

## Determining the Software Version

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

- 
- Step 1** Enter the following command to display the Cisco Unified SIP Proxy software version:
- ```
show software versions
```
- Step 2** Enter the following command to display the Cisco Unified SIP Proxy software license:
- ```
show license smart summary
```
- 

## File Packages for Cisco Unified SIP Proxy Release 9.0

The following package is available for Cisco Unified SIP Proxy Release 9.0:

- cusp-k9.vmw.9.0.1.ova

## License Information

- [Cisco Smart Software License, page 4](#)
- [Open Source Licensing, page 4](#)

## Cisco Smart Software License

Cisco Smart Software Licensing is a standardized licensing platform that facilitates you to deploy and manage Cisco software licenses easily and quickly. Cisco Smart Software Licensing establishes a pool of software licenses that can be used across your network in a flexible and automated manner. It also provides visibility to your purchased and deployed licenses in your network. Cisco Smart Software Licensing removes the need for Product Activation Keys (PAKs) and reduces your license activation and registration time.

For more information on configuring smart licensing using GUI and CLI refer to *GUI Configuration Guide for Cisco Unified SIP Proxy Release 9.0* and *CLI Configuration Guide for Cisco Unified SIP Proxy Release 9.0*.

## Open Source Licensing

Some components of the software created for Cisco Unified SIP Proxy Release 9.0 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](http://www.cisco.com/en/US/products/ps10475/products_licensing_information_listing.html).

## New Features and Enhancements

The following features and enhancements are introduced in Cisco Unified SIP Proxy Release 9.0:

- Software is packaged as OVA and can be installed on a virtual machine. For more information on installing and deploying Cisco Unified SIP Proxy virtual appliance, refer *Installation Guide for Cisco Unified SIP Proxy Release 9.0*.
- Cisco Unified SIP Proxy Release 9.0 supports Cisco Smart Software Licensing. For more information on configuring smart licenses, refer to *GUI Configuration Guide for Cisco Unified SIP Proxy Release 9.0* and *CLI Configuration Guide for Cisco Unified SIP Proxy Release 9.0*.
- Client and Server certificates for TLS connections can be verified separately. Certificate verification can be configured using CLI or GUI. Cisco Unified SIP proxy certificate keystore size is increased to 100 entries. For more information, refer to *GUI Configuration Guide for Cisco Unified SIP Proxy Release 9.0* and *CLI Configuration Guide for Cisco Unified SIP Proxy Release 9.0*.
- Trace log file size is increased to 5 GB such that debugging is easy in deployments with high traffic. For more information, refer to *CLI Command Reference Guide for Cisco Unified SIP Proxy Release 9.0*.

## Limitations and Restrictions

Cisco Unified SIP Proxy Release 9.0 has the following restrictions:

- Changing the default log file size impacts the performance of Cisco Unified SIP Proxy.
- High availability of Cisco Unified SIP Proxy virtual machine on both Cisco UCS and Cisco UCS-E platform is not supported as part of Cisco Unified SIP Proxy release 9.0.
- Cisco Unified SIP Proxy Release 9.0 does not support installation of VMware Tools or any 3rd party tools in a Linux environment.

## Caveats

There are no resolved and open caveats for Cisco Unified SIP Proxy Release 9.0.

## Migration to Cisco Unified SIP Proxy 9.0

You can migrate from existing Cisco Unified SIP Proxy 8.x releases to Cisco Unified SIP Proxy Release 9.0. However, the following are the limitations during the migration:

- Cisco Unified SIP Proxy Release 9.0 cannot be installed on SRE Module. You require a VMWare ESXi platform to install Cisco Unified SIP Proxy Release 9.0.
- Existing Cisco Unified SIP Proxy 8.x SWIFT licenses cannot be migrated to Cisco Unified SIP Proxy 9.0. Contact Cisco sales to enquire about the purchase of current Cisco Unified SIP Proxy licenses.
- The backup configuration files from Cisco Unified SIP Proxy 8.x release does not have network related configuration as Cisco SRE module gets the relevant information through RBCP protocol from the host router when it powers up. Cisco Unified SIP Proxy 9.0 does not support RBCP communication. So, if a backup configuration from Cisco Unified SIP Proxy 8.5.x release is restored in Cisco Unified SIP Proxy 9.0, you must manually enter and configure the IP address, subnet mask, and gateway details during reload.
- Cisco Unified SIP Proxy 8.x release configuration has multiple sub-interfaces. The sub-interface format in Cisco Unified SIP Proxy Release 9.0 is different from that in Cisco Unified SIP Proxy Release 8.x. You must configure these interfaces manually after the reload is complete.
- Listen points are not restored if the IP address of the Cisco Unified SIP Proxy on SRE module and Cisco Unified SIP Proxy 9.0 are different. You must manually configure the listen points.

To migrate from any of the existing Cisco Unified SIP Proxy Releases to Cisco Unified SIP Proxy Release 9.0, follow the below steps:

1. Take a backup of the existing Cisco Unified SIP Proxy 8.x configuration. Refer to [Cisco Unified SIP Proxy CLI Configuration Guide](#) for more information.
2. Deploy the Cisco Unified SIP Proxy Release 9.0 OVA on a virtual machine. Refer to [Cisco Unified SIP Proxy 9.0 Installation Guide](#) for more information.
3. Restore the configuration backup of Cisco Unified SIP Proxy 8.x in Cisco Unified SIP Proxy 9.0. Refer to [CLI Configuration Guide for Cisco Unified SIP Proxy Release 9.0](#) for more information.
4. Configure the Smart licenses. Refer to [GUI Configuration Guide for Cisco Unified SIP Proxy Release 9.0](#) and [CLI Configuration Guide for Cisco Unified SIP Proxy Release 9.0](#) for more information.

**Note**

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Smart licensing details are reset if smart licensing is configured before restore of configuration. It is always recommended to restore the configuration before enabling smart licensing.

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**Note**

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After configuration restore, you must manually create a user with administrator privileges for accessing SSH.

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**Note**

When you migrate from Cisco Unified SIP Proxy Release 8.x to Cisco Unified SIP Proxy Release 9.0, if there are no Sub-Interfaces or VLANs defined on the Virtual Machine, remove the VLAN 0 tag from packets at the ESXi switch side or network side. If not, packets with VLAN 0 tag are dropped.

## Related Documentation

Table 3 lists the documentation available for Cisco Unified SIP Proxy Release 9.0:

**Table 3**      *Related Documentation*

Document	Description
Installation Guide for Cisco Unified SIP Proxy Release 9.0	Describes how to install the Cisco Unified SIP Proxy Release 9.0 software, including licenses. Also includes information about moving from Release 1.x to Release 9.0. <a href="http://www.cisco.com/en/US/products/ps10475/rod_installation_guides_list.html">http://www.cisco.com/en/US/products/ps10475/rod_installation_guides_list.html</a>
CLI Configuration Guide for Cisco Unified SIP Proxy Release 9.0	Contains administrator information, such as maintenance and troubleshooting, for tasks that are performed from the CLI. <a href="http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html">http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html</a>
CLI Command Reference for Cisco Unified SIP Proxy Release 9.0	Contains descriptions of all the Cisco Unified SIP Proxy Release 9.0-specific CLI commands. <a href="http://www.cisco.com/en/US/products/ps10475/rod_command_reference_list.html">http://www.cisco.com/en/US/products/ps10475/rod_command_reference_list.html</a>
GUI Configuration Guide for Cisco Unified SIP Proxy Release 9.0	Contains administrator information, such as maintenance and troubleshooting, for tasks that are performed from the GUI. Includes online help. <a href="http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html">http://www.cisco.com/en/US/products/ps10475/products_installation_and_configuration_guides_list.html</a>
Commercial Open Source Information for Cisco Unified SIP Proxy Release 9.0	Lists all the open source software used in this project. <a href="http://www.cisco.com/en/US/products/ps10475/products_licensing_information_listing.html">http://www.cisco.com/en/US/products/ps10475/products_licensing_information_listing.html</a>

# Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

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