



Compatibility Matrix for Cisco Unified Communications Manager and the IM and Presence Service, Release 14x

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Revised: June 17, 2022

Compatibility Matrix for Cisco Unified Communications Manager and the IM and Presence Service

Revision History

Date	Revision
March 31, 2021	Initial release version for 14.
April 28, 2021	Added support for Ciphers for Application and OS End Users.
October 27, 2021	Initial release version for 14SU1.
October 27, 2021	Changed title to 14x.
October 27, 2021	Updated upgrade paths and version support for 14SU1.
June 16, 2022	Initial release version for 14SU2.
June 16, 2022	Updated version support for 14SU2.
June 16, 2022	Webex Desk Camera is rebranded to Cisco Desk Camera 4K.
June 16, 2022	Added support for Cisco Desk Camera 1080p.

Purpose of this Document

This document contains compatibility information for 14x releases of Cisco Unified Communications Manager and the IM and Presence Service. This will include subsequent SU releases as well, unless indicated otherwise.

Supported Upgrade and Migration Paths with COP Files

The following table highlights supported upgrade paths to upgrade to Release 14 of Cisco Unified Communications Manager and the IM and Presence Service. It also lists the upgrade paths that require COP files. You must install COP files on each node before you begin an upgrade using the Cisco Unified OS Admin interface, or before you begin an upgrade or migration using the Prime Collaboration Deployment (PCD) tool. If you are using PCD, you can perform a bulk installation of the COP files before you begin the upgrade.



Note Unless indicated otherwise, each release category includes the SU releases within that category.

You can download COP files for Cisco Unified Communications Manager and the IM and Presence Service at <https://software.cisco.com/download/home/268439621>. After you select the destination version for the upgrade, choose **Unified Communications Manager Utilities** to see the list of COP files.



Note Although it is not mandatory, we strongly recommend that you run the Upgrade Readiness COP file prior to the upgrade in order to maximize upgrade success. Cisco TAC may require that you run this COP file to provide effective technical support



Note If the source is in FIPS mode and/or PCD in FIPS mode, see https://www.cisco.com/web/software/286319173/139477/ciscocm.ciscossl7_upgrade_CSCwa48315_CSCwa77974_v1.0.k4.cop-ReadMe.pdf for information on the COP file `ciscocm.ciscossl7_upgrade_CSCwa48315_CSCwa77974_v1.0.k4.cop`. This document details the pre-requisites required for direct upgrade or direct migration to the 14SU2 destination versions.

Table 1: Supported Upgrade Paths and COP Files for Cisco Unified Communications Manager and the IM and Presence Service

Source	Destination	Mechanism	Pre-requisites	Version Switching* (Source to Destination and Vice Versa)
10.0	14	PCD 14 Migration Task (V2V)	<p>Direct upgrade to 14SU2 is not supported. When the destination version is 14 SU2 and the source version is 10.0, then the Cisco Prime Collaboration Deployment (PCD) must be used for migration.</p> <p>If the destination version is 14 SU2 and the source version 10.0 is in FIPS mode, then the Cisco Prime Collaboration Deployment (PCD) must be in (or placed in) non-FIPS mode.</p>	Not supported
10.5	14	PCD 14 Migration Task (V2V)	<p>Run pre-upgrade-check COP file.</p> <p>Direct upgrade to 14SU2 is not supported. When the destination version is 14 SU2 and the source version is 10.5, then the Cisco Prime Collaboration Deployment (PCD) must be used for migration.</p> <p>If the destination version is 14 SU2 and the source version 10.5 is in FIPS mode, then either:</p> <ul style="list-style-type: none"> • PCD must be in (or placed in) non-FIPS mode. • Use Fresh Install with Data Import instead of using the PCD Migration Task. 	Not supported
		Fresh Install with Data Import (V2V)	<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • <code>ciscocm.DataExport_v1.0.cop.sgn</code> 	Not supported

Source	Destination	Mechanism	Pre-requisites	Version Switching* (Source to Destination and Vice Versa)
11.0	14	PCD 14 Migration Task (V2V)	<p>Run pre-upgrade-check COP file.</p> <p>If the destination version is 14 SU2 and the source version 11.0 is in FIPS mode, then either:</p> <ul style="list-style-type: none"> • PCD must be in (or placed in) non-FIPS mode. • Use Fresh Install with Data Import instead of using the PCD Migration Task. 	Not supported
		Fresh Install with Data Import (V2V)	<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • ciscocm.DataExport_v1.0.cop.sgn 	Not supported

Source	Destination	Mechanism		Pre-requisites	Version Switching* (Source to Destination and Vice Versa)
11.5	14	Direct Refresh Upgrade	Via OS Admin or CLI	<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • If the Unified CM source is older than 11.5.1.22900-28, then install the following COP file: cop ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. • If the IM and Presence Service source is older than 11.5.1.22900-6, then install the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. • If you want to upgrade IM and Presence Service from release 11.5.1.18900-15 to 14, use the following COP file: ciscocm.V11.5.1_CSCvv25961_add_diffie_C0085-1.cop.sgn. 	Supported
		Direct Refresh Upgrade	Via PCD Upgrade Task	<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • If the Unified CM source is older than 11.5.1.22900-28, then install the following COP file: cop ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. • If the IM and Presence Service source is older than 11.5.1.22900-6, then install the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. • If you want to upgrade IM and Presence Service from release 11.5.1.18900-15 to 14, use the following COP file: ciscocm.V11.5.1_CSCvv25961_add_diffie_C0085-1.cop.sgn. • If the destination version is 14 SU2 and the source version 11.5 is in FIPS mode, then either: <ul style="list-style-type: none"> • PCD must be in (or placed in) non-FIPS mode. • Use Fresh Install with Data Import instead of using the PCD Upgrade Task. 	Supported
		PCD 14 Migration Task (V2V)			Not supported

Source	Destination	Mechanism		Pre-requisites	Version Switching* (Source to Destination and Vice Versa)
				Run pre-upgrade-check COP file. If the destination version is 14 SU2 and the source version 11.5 is in FIPS mode, then either: <ul style="list-style-type: none"> • PCD must be in (or placed in) non-FIPS mode. • Use Fresh Install with Data Import instead of using the PCD Migration Task. 	
		Fresh Install with Data Import (V2V)		<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • ciscocm.DataExport_v1.0.cop.sgn 	Not supported
12.0	14	Direct Refresh Upgrade	Via OS Admin or CLI	<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • If the Unified CM source is older than 12.0.1.24900-19, then install the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. • If the IM and Presence Service source is older than 12.0.1.21000-34, then install the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. 	Supported
		Direct Refresh Upgrade	Via PCD Upgrade Task	<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • If the Unified CM source is older than 12.0.1.24900-19, then install the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. • If the IM and Presence Service source is older than 12.0.1.21000-34, then install the following COP file: ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. 	Supported
		PCD 14 Migration Task (V2V)		Run pre-upgrade-check COP file. If the source version is Release 12.0(1) of Unified Communications Manager (12.0.1.10000-10), then you must install the following COP file: ciscocm-slm-migration.k3.cop.sgn. This is not required if the source version is higher, for example, Release 12.0(1)SU1.	Not supported
		Fresh Install with Data Import (V2V)		<ul style="list-style-type: none"> • Run pre-upgrade-check COP file. • ciscocm.DataExport_v1.0.cop.sgn 	Not supported

Source	Destination	Mechanism	Pre-requisites	Version Switching* (Source to Destination and Vice Versa)	
12.5	14	Direct Standard Upgrade (simple upgrades)	Via OS Admin or CLI	<ul style="list-style-type: none"> Run pre-upgrade-check COP file. If the Unified CM source is older than 12.5.1.14900-63, then install the following COP file: <code>ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn</code>. If the IM and Presence Service source is older than 12.5.1.14900-4, then install the following COP file: <code>ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn</code>. 	Supported
		Direct Standard Upgrade	Via PCD Upgrade Task	<ul style="list-style-type: none"> Run pre-upgrade-check COP file. If the Unified CM source is older than 12.5.1.14900-63, then install the following COP file: <code>ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn</code>. If the IM and Presence Service source is older than 12.5.1.14900-4, then install the following COP file: <code>ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn</code>. If the destination version is 14 SU2 and the source version 12.5 is in FIPS mode, then either: <ul style="list-style-type: none"> PCD must be in (or placed in) non-FIPS mode. Use Fresh Install with Data Import instead of using the PCD Upgrade Task. 	Supported
		PCD 14 Migration Task (V2V)		<p>Run pre-upgrade-check COP file.</p> <p>If the destination version is 14 SU2 and the source version 12.5 is in FIPS mode, then either:</p> <ul style="list-style-type: none"> PCD must be in (or placed in) non-FIPS mode. Use Fresh Install with Data Import instead of using the PCD Migration Task. 	Not supported
		Fresh Install with Data Import (V2V)		<ul style="list-style-type: none"> Run pre-upgrade-check COP file. <code>ciscocm.DataExport_v1.0.cop.sgn</code> 	Not supported

Source	Destination	Mechanism		Pre-requisites	Version Switching* (Source to Destination and Vice Versa)
14 or 14SU1	14SU2	Direct Standard Upgrade (simple upgrades)	Via OS Admin or CLI	Run pre-upgrade-check COP file.	Supported
		Direct Standard Upgrade	Via PCD Upgrade Task	Run pre-upgrade-check COP file. <ul style="list-style-type: none"> If the destination version is 14 SU2 and the source version is 14 or 14SU1 in FIPS mode, then either: <ul style="list-style-type: none"> PCD must be in (or placed in) non-FIPS mode. Use Fresh Install with Data Import instead of using the PCD Upgrade Task. 	

* Version switching refers to the ability to install the new version as an inactive version and switch to the new version, and revert to the old version, whenever you want. This capability is supported with most direct upgrades, but not with migrations.



Note PCD Upgrades and Migrations—Use Cisco Prime Collaboration Deployment Release 14SU2 for all PCD tasks.

Supported Versions

The following table outlines which Unified Communications Manager and IM and Presence Service versions are supported with each release:

For this Release...	The Following Versions are Supported...
14	<ul style="list-style-type: none"> Cisco Unified Communications Manager 14.0.1.10000-20 IM and Presence Service 14.0.1.10000-16
14SU1	<ul style="list-style-type: none"> Cisco Unified Communications Manager 14.0.1.11900-132 IM and Presence Service 14.0.1.11900-9
14SU2	<ul style="list-style-type: none"> Cisco Unified Communications Manager 14.0.1.12900-161 IM and Presence Service 14.0.1.12900-6

Version Compatibility Between Unified CM and the IM and Presence Service

Version compatibility depends on the IM and Presence deployment type. The following table outlines the options and whether a release mismatch is supported between the telephony deployment and the IM and Presence deployment. A release mismatch, if it is supported, would let you deploy your Unified Communications Manager telephony deployment and your IM and Presence deployment using different releases.

Table 2: Version Compatibility between Unified Communications Manager and the IM and Presence Service

Deployment Type	Release Mismatch	Description
Standard Deployment of IM and Presence	Not supported	Unified Communications Manager and the IM and Presence Service are in the same cluster and must run the same release—a release mismatch is not supported.
Centralized Deployment of IM and Presence	Supported	The IM and Presence deployment and the telephony deployment are in different clusters and can run different releases—a release mismatch is supported. Note The IM and Presence central cluster also includes a standalone Unified CM publisher node for database and user provisioning. This non-telephony node must run the same release as the IM and Presence Service.

Unified Communications Manager Compatibility Information

Cisco Collaboration System Applications

This release of Cisco Unified Communications Manager and the IM and Presence Service is a part of the Cisco Collaboration Systems Release 14 and is compatible with the other Cisco Collaboration applications and versions in Cisco Collaboration Systems Release 14.

For a full list of Cisco Collaboration applications that are a part of Cisco Collaboration Systems Release 14, and the supported versions for each, see the *Cisco Collaboration Systems Release Compatibility Matrix* at: https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/unified/communications/system/Compatibility/CSR-Compatibility-Matrix-InteractiveHTML.html.

Android Push Notifications Compatibility Recommendations

Android Push Notification feature is supported only on the following software versions:

- Unified Communications Manager 12.5(1)SU3
- IM and Presence Service 12.5(1)SU3
- Cisco Jabber 12.9.1
- Cisco Expressway X12.6.2



Note This compatibility information isn't applicable for Cisco Webex.

Table 3: Recommended Release Requirements for Android Push Notifications Support

Unified Communications Manager and IM and Presence Service Version	Expressway Version	Unified Communications Mobile and Remote Access	On-Premises Deployments
All clusters on: <ul style="list-style-type: none"> • 11.5(1)SU8 or earlier • 12.5(1)SU2 or earlier 	X12.6.2	Android Push Notification is not supported	Android Push Notification is not supported
All clusters on: <ul style="list-style-type: none"> • 12.5(1)SU3 	X12.6.2	Enable Android Push Notification using the CLI xConfiguration XCP Config FcmService: On on Expressway for messaging only	Android Push Notification is supported
Cluster with mixed versions (11.5(1)SU8 or earlier, OR 12.5(1)SU2 or earlier, AND 12.5(1)SU3)	X12.6.2	Android Push Notification for Messaging is not supported VOIP is supported on Release 12.5(1)SU3	Android Push Notification is supported with Release 12.5(1)SU3

IM and Presence Stream Features/Services Advertisement Compatibility Recommendations

IM and Presence Service supports the advertisement of XMPP stream features/services to the clients connecting over Cisco Expressway's Mobile and Remote Access.

Depending on your current IM and Presence Service version mix, you may need to enable or disable push notifications feature using FCM service flag on the Expressway as per the information given in the following table:

xConfiguration XCP Config FcmService: On/Off



Note Apple Push Notification Service (APNS) is not affected by the FCM service flag status.

Table 4: Solution Matrix from the Perspective of Expressway CLI Enable/Disable Command for Android Push Notifications (FCM)

Mixed Versions IM and Presence Clusters	Expected Status of FCM Flag on Expressway X12.7	Comment
Any 11.5(1)SU with 12.5(1)SU2 and lower	OFF	Android Push (FCM) NOT supported.
11.5(1)SU8 (and lower) or 12.5(1)SU2 (and lower) with 12.5(1)SU3	OFF	Android push (FCM) NOT supported
11.5(1)SU8 (and lower) or 12.5(1)SU2 (and lower) with 12.5(1)SU4 (and higher)	OFF	Android push (FCM) supported on 12.5(1)SU4 (or newer) versions
11.5(1)SU9 (and higher) or 12.5(1)SU4 (and higher) with 12.5(1)SU3	ON	Android push (FCM) supported on version 12.5(1)SU3 and higher

Mixed Versions IM and Presence Clusters	Expected Status of FCM Flag on Expressway X12.7	Comment
11.5(1)SU9 (and higher) with 12.5(1)SU4 (and higher)	Flag not required (Expressway 12.7 relies fully on the new discovery mechanism)	Android push (FCM) supported on 12.5(1)SU4 (or newer) versions

Cisco Endpoint Support

All end of Life and End of Sale announcements are listed here: <https://www.cisco.com/c/en/us/products/eos-eol-listing.html>.

Supported Cisco Endpoints

The following table lists Cisco endpoints that are supported with this release of Cisco Unified Communications Manager. For endpoints that have reached End of Sale (EOS), or End of Software Maintenance, click the EOS link to view support details.



Note Unless they are specified in the "Deprecated Phone Models" list, phone models that are End of Software Maintenance will continue to be supported on the latest Unified Communications Manager releases. However, they will not take advantage of any new Unified Communications Manager or firmware features associated with that release.

Table 5: Supported Cisco Endpoints

Device Series	Device Model
Cisco Unified SIP Phone 3900 Series	Cisco Unified SIP Phone 3905
Cisco Unified IP Phone 6900 Series	Cisco Unified IP Phone 6901
Cisco IP Phone 7800 Series	Cisco IP Phone 7811 Cisco IP Phone 7821 Cisco IP Phone 7841 Cisco IP Phone 7861 Cisco IP Conference Phone 7832
Cisco Unified IP Phone 7900 Series	Cisco Unified IP Phone Expansion Module 7915— EOS Notice Cisco Unified IP Phone Expansion Module 7916— EOS Notice Cisco Unified IP Phone 7942G— EOS Notice Cisco Unified IP Phone 7945G— EOS Notice Cisco Unified IP Phone 7962G— EOS Notice Cisco Unified IP Phone 7965G— EOS Notice Cisco Unified IP Phone 7975G— EOS Notice

Device Series	Device Model
Cisco IP Phone 8800 Series	Cisco IP Phone 8811, 8831, 8841, 8845, 8851, 8851NR, 8861, 8865, 8865NR Cisco Wireless IP Phone 8821, 8821-EX— EOL Notice Cisco Unified IP Conference Phone 8831— EOS Notice Cisco IP Conference Phone 8832
Cisco Unified IP Phone 8900 Series	Cisco Unified IP Phone 8945— EOS Notice Cisco Unified IP Phone 8961— EOS Notice
Cisco Unified IP Phone 9900 Series	Cisco Unified IP Phone 9951— EOS Notice Cisco Unified IP Phone 9971— EOS Notice
Cisco Jabber	Cisco Jabber for Android Cisco Jabber for iPhone and iPad Cisco Jabber for Mac Cisco Jabber for Windows Cisco Jabber Softphone for VDI - Windows (formerly Cisco Virtualization Experience Media Edition for Windows) Cisco Jabber Guest Cisco Jabber Software Development Kit Cisco Jabber for Tablet
Cisco Headset Series	Cisco Headset 520 Cisco Headset 530 Cisco Headset 560 Cisco Headset 730
Cisco IP Communicator	Cisco IP Communicator— EOS Notice

Device Series	Device Model
Webex	Webex App Webex Room Phone Webex Desk Cisco Desk Camera 4K Cisco Desk Camera 1080p Webex Desk Hub Webex Desk Pro Webex Desk Limited Edition Webex Share— EOS Notice Board 55, 55S, 70, 70S, 85, 85S Webex Room Panorama Webex Room 70 Panorama Webex Room 70 Panorama Upgrade Room 70 Room 70 G2 Room 55 Room 55 Dual Room Kit Pro Room Kit Plus Room Kit Room Kit Mini Webex Room USB
Webex Wireless Phone 800 Series	Webex Wireless Phone 840 Webex Wireless Phone 860
Webex Meetings	Webex Meetings for iPad and iPhone Webex Meetings for Android
Cisco Analog Telephony Adapters	Cisco ATA 190 Series Analog Telephone Adapters— EOS/EOL Notice Cisco ATA 191 Series Analog Telephone Adapters
Cisco DX Series	Cisco Webex DX70— EOS Notice Cisco Webex DX80— EOS Notice Cisco DX650— EOS Notice
Cisco TelePresence IX5000	Cisco TelePresence IX5000

Device Series	Device Model
Cisco TelePresence EX Series	Cisco TelePresence System EX90— EOS Notice
Cisco TelePresence MX Series	Cisco TelePresence MX200 G2— EOS Notice Cisco TelePresence MX300 G2— EOS Notice Cisco TelePresence MX700D— EOS Notice Cisco TelePresence MX800S— EOS Notice Cisco TelePresence MX800D— EOS Notice
Cisco TelePresence SX Series	Cisco TelePresence SX10— EOS Notice Cisco TelePresence SX20— EOS Notice Cisco TelePresence SX80— EOS Notice

Cisco Unified Communications Manager Release 12.5(1) is a part of Cisco Collaboration Systems Release 12.5. For a list of firmware versions that are used for each Cisco endpoint, see the *Cisco Collaboration Systems Release Compatibility Matrix* at http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/uc_system/unified/communications/system/Compatibility/CSR-Compatibility-Matrix.html.

For information about Device Pack compatibility to support the phones, see the *Cisco Unified Communications Manager Device Package Compatibility Matrix* at http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/compat/matrix/CMDP_BK_CCBDA741_00_cucm-device-package-compatibility-matrix.html.

End of Support

The following table lists Cisco endpoints that have reached the End of Support date, but which are not yet deprecated. Unlike deprecated endpoints, you can still deploy these endpoints in the latest release, but they are not supported actively, are not tested, and may not work.

Click the links to view support announcements for each endpoint.

For information on all of the End of Support and End-of-Life products, see https://www.cisco.com/c/en_ca/products/eos-eol-listing.html.

Table 6: Cisco Endpoints at End of Support

Cisco Endpoints at End of Support
<ul style="list-style-type: none"> • Cisco Unified SIP Phone 3911, 3951 • Cisco Unified IP Phone 6911, 6921, 6941, 6945, 6961, 7906G, 7911G, 7931G, 7940G, 7941G, 7960G, 7961G, 8941 • Cisco Unified IP Phone Expansion Module 7925G, 7925G-EX, 7926G • Cisco Unified IP Conference Station 7935, 7936, 7937G • Cisco TelePresence EX60 • Cisco TelePresence MX200-G1, MX200-G2, MX300-G1, MX300-G2 • Cisco TelePresence 500-32, 500-37, 1000 MXP, 1100, 1300-65, 1300-47, 3000 Series

Deprecated Phone Models

The following table lists all the phone models that are deprecated for this release of Unified Communications Manager, along with the Unified CM release where the phone model first became deprecated. For example, a phone model that was first deprecated in Release 11.5(1) is deprecated for all later releases, including all 12.x releases.

If you are upgrading to the current release of Unified Communications Manager and you have any of these phone models deployed, the phone will not work after the upgrade.

Table 7: Deprecated Phone Models for this Release

Deprecated Phone Models for this Release	First Deprecated as of Unified CM...
<ul style="list-style-type: none"> • Cisco Unified Wireless IP Phone 7921 • Cisco Unified IP Phone 7970 • Cisco Unified IP Phone 7971 	12.0(1) and later releases
<ul style="list-style-type: none"> • Cisco IP Phone 12 S • Cisco IP Phone 12 SP • Cisco IP Phone 12 SP+ • Cisco IP Phone 30 SP+ • Cisco IP Phone 30 VIP • Cisco Unified IP Phone 7902G • Cisco Unified IP Phone 7905G • Cisco Unified IP Phone 7910 • Cisco Unified IP Phone 7910G • Cisco Unified IP Phone 7910+SW • Cisco Unified IP Phone 7910G+SW • Cisco Unified IP Phone 7912G • Cisco Unified Wireless IP Phone 7920 • Cisco Unified IP Conference Station 7935 	11.5(1) and later releases

For additional information refer to the Field Notice: *Cisco Unified Communications Manager Release 14 does not support some deprecated phone models* at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/trouble/14_0_1/fieldNotices/cucm_b_deprecated-phones-14.html.

Upgrades that Involve Deprecated Phones

If you are using any of these phones on an earlier release and you want to upgrade to this release, do the following:

1. Confirm whether the phones in your network will be supported in this release.
2. Identify any non-supported phones.

3. For any non-supported phones, power down the phone and disconnect the phone from the network.
4. Provision a supported phone for the phone user. You can use the following methods to migrate from older model to newer model phones:
 - [Native Phone Migration using IVR and Phone Services](#)
 - [Migration FX tool](#)
5. Once all the phones in your network are supported by this release, upgrade your system.



Note Deprecated phones can also be removed after the upgrade. When the administrator logs in to Unified Communications Manager after completing the upgrade, the system displays a warning message notifying the administrator of the deprecated phones.

Licensing

You do not need to purchase a new device license to replace a deprecated phone with a supported phone. The device license becomes available for a new phone when you either remove the deprecated phone from the system, or when you switch to the new Unified Communications Manager version, and the deprecated phone fails to register.

Virtualization Requirements

This release of Unified Communications Manager and the IM and Presence Service supports virtualized deployments only. Deployments on Cisco Media Convergence Servers are not supported. See the following table for virtualization requirements.

Table 8: Virtualization Requirements

Virtualization Requirements for...	For information, go to...
Unified Communications Manager	For information about Unified Communications Manager virtualization requirements, go to https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-unified-communications-manager.html .
IM and Presence Service	For information about the IM and Presence Service virtualization requirements, go to https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-ucm-im-presence.html .
Cisco Business Edition Deployments	For information on the virtualization requirements for Unified Communications Manager in a collaboration solution deployment such as Cisco Business Edition, go to https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-infrastructure.html .

Supported LDAP Directories

The following LDAP directories are supported:

- Microsoft Active Directory 2012 R1/ R2
- Microsoft Active Directory 2016

- Microsoft Active Directory 2019—Supported for 11.5(1)SU7, 12.5(1)SU2, and later releases
- Microsoft Lightweight Directory Services 2012 R1/ R2
- Microsoft Lightweight Directory Services 2019—Supported for 11.5(1)SU7, 12.5(1)SU2, and later releases
- Oracle Directory Services Enterprise Edition 11gR1 (11.1.1.7.x or newer)
- Oracle Unified Directory 12cPS3 (12.2.1.3.0)
- Open LDAP 2.4.44 or later
- Other LDAPv3 Compliant Directories—Unified Communications Manager uses standard LDAPv3 for accessing the user's data. Ensure that the supportedcontrol attribute is configured in the LDAPv3 compliant directory servers to be used with DirSync. (The supportedcontrol attribute may return the pagecontrolsupport and persistentcontrolsupport sub attributes, if configured.)

Supported Web Browsers

The following web browsers are supported:

- Firefox with Windows 10 (64 bit)
- Chrome with Windows 10 (64 bit)
- Microsoft Edge browser with Windows 10 (32 bit/64 bit)
- Safari with MacOS (10.x)



Note We recommend that you use the latest version for all the web browsers supported.

SFTP Server Support

For internal testing, we use the SFTP Server on Cisco Prime Collaboration Deployment (PCD) which is provided by Cisco, and which is supported by Cisco TAC. Refer to the following table for a summary of the SFTP server options:

Table 9: SFTP Server Support

SFTP Server	Support Description
SFTP Server on Cisco Prime Collaboration Deployment	<p>This server is the only SFTP server that is provided and tested by Cisco, and fully supported by Cisco TAC.</p> <p>Version compatibility depends on your version of Emergency Responder and Cisco Prime Collaboration Deployment. See the Cisco Prime Collaboration Deployment Administration Guide before you upgrade its version (SFTP) or Emergency Responder to ensure that the versions are compatible.</p>

SFTP Server	Support Description
SFTP Server from a Technology Partner	<p>These servers are third party provided and third party tested. Version compatibility depends on the third-party test. See the Technology Partner page if you upgrade their SFTP product and/or upgrade Unified Communications Manager for which versions are compatible:</p> <p>https://marketplace.cisco.com</p>
SFTP Server from another Third Party	<p>These servers are third party provided and are not officially supported by Cisco TAC. Version compatibility is on a best effort basis to establish compatible SFTP versions and Emergency Responder versions.</p> <p>Note These products have not been tested by Cisco and we cannot guarantee functionality. Cisco TAC does not support these products. For a fully tested and supported SFTP solution, use Cisco Prime Collaboration Deployment or a Technology Partner.</p>

SAML SSO Support

Although Cisco Collaboration infrastructure may prove to be compatible with other IdPs claiming SAML 2.0 compliance, only the following IdPs have been tested with Cisco Collaboration solutions:

- Microsoft® Active Directory® Federation Services 2.0
- Microsoft Azure AD
- OpenAM
- PingFederate®
- F5 BIG-IP
- Okta

For additional information on SAML SSO, see the *SAML SSO Deployment Guide for Cisco Unified Communications Applications*.

API and Secure Connection Packages

The following table provides information on the API Development and secure connection packages that are supported with this release.

Table 10: Supported Packages

Package Type	Details
API Development	<p>Cisco Unified Communications Manager and the IM and Presence Service support OpenJDK for application development.</p> <ul style="list-style-type: none"> • Release 14 use OpenJDK version 1.8.0.262. • Release 14SU1 use OpenJDK version 1.8.0.262.b10-0. • Release 14SU2 use OpenJDK version 1.8.0.262.b10-0.

Package Type	Details
SSL Connections	<p>For Secure Sockets Layer (SSL) connections, these releases support either OpenSSL or Cisco SSL. You can use either of the following for your respective versions:</p> <ul style="list-style-type: none"> • Release 14 uses OpenSSL 1.0.2u.6.2.374 and CiscoSSL 1.0.2u.6.2.374. • Release 14SU1 uses OpenSSL 1.0.2y.6.2.403 and CiscoSSL 1.0.2y.6.2.403. • Release 14SU2 uses OpenSSL 1.0.2zd.6.2.480 and CiscoSSL 1.1.1n.7.2.390.
SSH Clients	<ul style="list-style-type: none"> • Release 14 supports OpenSSH client version 7.5.14i.1.5.18 for SSH connections. • Release 14SU1 supports OpenSSH client version 7.5.14i.1.5.18 for SSH connections. • Release 14SU2 supports CiscoSSH client version 1.9.29.18 for SSH connections.



Note For additional information on the packages that are installed on your system, run the `show packages active` CLI command. See the *Command Line Interface Reference Guide for Cisco Unified Communications Solutions* for more information about this command and its options.

TLS 1.2 Support

Unified Communications Manager and the IM and Presence Service support the use of TLS 1.2. For detailed information on TLS 1.2 support, see *TLS 1.2 Compatibility Matrix for Cisco Collaboration Products* at:

https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/uc_system/unified/communications/system/Compatibility/TLS/TLS1-2-Compatibility-Matrix.html.

Supported Ciphers for Unified Communications Manager

The following ciphers are supported by Unified Communications Manager:

Table 11: Unified Communications Manager Cipher Support for TLS Ciphers

Application / Process	Protocol	Port	Supported Ciphers
Cisco CallManager	TCP / TLS	2443	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: AES256-GCM-SHA384: AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: AES128-GCM-SHA256: AES128-SHA256:AES128-SHA: CAMELLIA128-SHA ECDHE-RSA-AES256-SHA:

Application / Process	Protocol	Port	Supported Ciphers
DRS	TCP / TLS	4040	ECDHE-RSA-AES256-GCM-SHA384 : ECDHE-RSA-AES256-SHA384 : DHE-RSA-CAMELLIA256-SHA : AES256-GCM-SHA384 :AES256-SHA256 : AES256-SHA :CAMELLIA256-SHA : ECDHE-RSA-AES128-GCM-SHA256 : ECDHE-RSA-AES128-SHA256 : ECDHE-RSA-AES128-SHA : DHE-RSA-CAMELLIA128-SHA : AES128-GCM-SHA256 :AES128-SHA256 : AES128-SHA :CAMELLIA128-SHA ECDHE-RSA-AES256-SHA :
Cisco Tomcat	TCP / TLS	8443 / 443	ECDHE-RSA-AES256-GCM-SHA384 : ECDHE-RSA-AES256-SHA384 : DHE-RSA-AES256-GCM-SHA384 : DHE-RSA-AES256-SHA256 : DHE-RSA-AES256-SHA : DHE-RSA-CAMELLIA256-SHA : AES256-GCM-SHA384 :AES256-SHA256 : AES256-SHA :CAMELLIA256-SHA : ECDHE-RSA-AES128-GCM-SHA256 : ECDHE-RSA-AES128-SHA256 : ECDHE-RSA-AES128-SHA : DHE-RSA-AES128-GCM-SHA256 : DHE-RSA-AES128-SHA256 : DHE-RSA-AES128-SHA : DHE-RSA-CAMELLIA128-SHA : AES128-GCM-SHA256 :AES128-SHA256 : AES128-SHA :CAMELLIA128-SHA : ECDHE-RSA-DES-CBC3-SHA : EDH-RSA-DES-CBC3-SHA : DES-CBC3-SHA ECDHE-ECDSA-AES256-GCM-SHA384 : ECDHE-ECDSA-AES256-SHA384 : ECDHE-ECDSA-AES256-SHA : ECDHE-ECDSA-AES128-GCM-SHA256 : ECDHE-ECDSA-AES128-SHA256 : ECDHE-ECDSA-AES128-SHA : ECDHE-ECDSA-DES-CBC3-SHA ECDHE-RSA-AES256-SHA :
Cisco CallManager	TCP / TLS	5061	ECDHE-RSA-AES256-GCM-SHA384 : ECDHE-ECDSA-AES256-GCM-SHA384 ECDHE-RSA-AES256-SHA384 : ECDHE-ECDSA-AES256-SHA384 : ECDHE-ECDSA-AES256-SHA : AES256-GCM-SHA384 :AES256-SHA256 : AES256-SHA :CAMELLIA256-SHA ECDHE-ECDSA-AES128-GCM-SHA256 ECDHE-RSA-AES128-GCM-SHA256 : ECDHE-RSA-AES128-SHA256 ECDHE-ECDSA-AES128-SHA256 : ECDHE-RSA-AES128-SHA ECDHE-ECDSA-AES128-SHA : AES128-GCM-SHA256 :AES128-SHA256 : AES128-SHA :CAMELLIA128-SHA : ECDHE-ECDSA-DES-CBC3-SHA ECDHE-RSA-AES256-SHA :

Application / Process	Protocol	Port	Supported Ciphers
Cisco CTL Provider	TCP / TLS	2444	AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA:
Cisco Certificate Authority Proxy Function	TCP / TLS	3804	AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA:
CTIManager	TCP / TLS	2749	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA ECDHE-RSA-AES256-SHA:
Cisco Trust Verification Service	TCP / TLS	2445	AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA
Cisco Intercluster Lookup Service	TCP / TLS	7501	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: AES256-GCM-SHA384: AES256-SHA256:AES256-SHA: CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA: ECDHE-RSA-AES256-SHA:
Secure Configuration download (HAPROXY)	TCP / TLS	6971, 6972	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: DHE-RSA-CAMELLIA256-SHA: AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: DHE-RSA-CAMELLIA128-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA: ECDHE-ECDSA-AES256-GCM-SHA384: ECDHE-ECDSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA: ECDHE-ECDSA-AES128-SHA256: ECDHE-ECDSA-AES128-SHA: ECDHE-ECDSA-DES-CBC3-SHA: ECDHE-RSA-AES256-SHA:

Application / Process	Protocol	Port	Supported Ciphers
Authenticated Contact Search	TCP / TLS	9443	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: DHE-RSA-CAMELLIA256-SHA: AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: DHE-RSA-CAMELLIA128-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA: ECDHE-ECDSA-AES256-GCM-SHA384: ECDHE-ECDSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA: ECDHE-ECDSA-AES128-SHA256: ECDHE-ECDSA-AES128-SHA: ECDHE-ECDSA-DES-CBC3-SHA: ECDHE-RSA-AES256-SHA:

Supported Ciphers for SSH

The following ciphers are supported by SSH:

Table 12: Cipher Support for SSH Ciphers

Service	Ciphers/Algorithms
SSH Server	<ul style="list-style-type: none"> • Ciphers <ul style="list-style-type: none"> aes128-ctr aes192-ctr aes256-ctr aes128-gcm@openssh.com aes256-gcm@openssh.com • MAC algorithms: <ul style="list-style-type: none"> hmac-sha2-256 hmac-sha2-512 hmac-sha1 • Kex algorithms: <ul style="list-style-type: none"> ecdh-sha2-nistp521 ecdh-sha2-nistp384 ecdh-sha2-nistp256 diffie-hellman-group14-sha1 diffie-hellman-group14-sha256 diffie-hellman-group16-sha512 • Host Key algorithms in non-FIPS mode: <ul style="list-style-type: none"> rsa-sha2-256 rsa-sha2-512 ssh-rsa • Host Key algorithms in FIPS mode: <ul style="list-style-type: none"> rsa-sha2-256 rsa-sha2-512

Service	Ciphers/Algorithms
SSH Client	<ul style="list-style-type: none"> • Ciphers: <ul style="list-style-type: none"> aes128-ctr aes192-ctr aes256-ctr aes128-gcm@openssh.com aes256-gcm@openssh.com • MAC algorithms: <ul style="list-style-type: none"> hmac-sha2-256 hmac-sha2-512 hmac-sha1 • Kex algorithms: <ul style="list-style-type: none"> ecdh-sha2-nistp521 ecdh-sha2-nistp384 ecdh-sha2-nistp256 diffie-hellman-group14-sha1 diffie-hellman-group14-sha256 diffie-hellman-group16-sha512 • Host Key algorithms in non-FIPS mode: <ul style="list-style-type: none"> rsa-sha2-256 rsa-sha2-512 ssh-rsa • Host Key algorithms in FIPS mode: <ul style="list-style-type: none"> rsa-sha2-256 rsa-sha2-512

Service	Ciphers/Algorithms
DRS Client	<ul style="list-style-type: none"> • Ciphers: <ul style="list-style-type: none"> aes256-ctr aes256-cbc aes128-ctr aes128-cbc aes192-ctr aes192-cbc • MAC algorithms: <ul style="list-style-type: none"> hmac-md5 hmac-sha2-256 hmac-sha1 hmac-sha1-96 hmac-md5-96 • Kex algorithms: <ul style="list-style-type: none"> ecdh-sha2-nistp256 ecdh-sha2-nistp384 ecdh-sha2-nistp521 diffie-hellman-group14-sha1 diffie-hellman-group-exchange-sha256 diffie-hellman-group-exchange-sha1 diffie-hellman-group1-sha1 Note The Kex algorithms diffie-hellman-group-exchange-sha256, diffie-hellman-group-exchange-sha1, and diffie-hellman-group1-sha1 are not supported from Release 12.5(1)SU4 if you have configured Cipher Management functionality in your Unified CM server. If the ciphers are not configured, DRS Client uses these algorithms.
SFTP client	<ul style="list-style-type: none"> • Ciphers: <ul style="list-style-type: none"> aes128-ctr aes192-ctr aes256-ctr • MAC algorithms: <ul style="list-style-type: none"> hmac-sha2-256 hmac-sha1 • Kex algorithms: <ul style="list-style-type: none"> ecdh-sha2-nistp521 ecdh-sha2-nistp384 diffie-hellman-group14-sha1 diffie-hellman-group1-sha1 diffie-hellman-group-exchange-sha256 diffie-hellman-group-exchange-sha1
End Users	<ul style="list-style-type: none"> hmac-sha512 SHA-512 - Hashing (salted)
DRS Backups / RTMT SFTPs	AES-128 - Encryption
Application Users	AES-256 - Encryption

IM and Presence Service Compatibility Information

Platform Compatibility

The IM and Presence Service shares a platform with Unified Communications Manager. Many of the compatibility topics for Unified Communications Manager double as support topics for the IM and Presence Service. You can refer to the Unified Communications Manager compatibility chapter for information on the following items:

- Secure Connections
- Virtualization Requirements
- Supported Web Browsers

External Database Support

Many IM and Presence Service features such as Persistent Chat, High Availability for Persistent Chat, Message Archiver, and Managed File Transfer require that you deploy an external database. For information on database support, see the [Database Setup Guide for the IM and Presence Service](#).

Supported LDAP Directories

The following LDAP directories are supported:

- Microsoft Active Directory 2012 R1/ R2
- Microsoft Active Directory 2016
- Microsoft Active Directory 2019—Supported for 11.5(1)SU7, 12.5(1)SU2, and later releases
- Microsoft Lightweight Directory Services 2012 R1/ R2
- Microsoft Lightweight Directory Services 2019—Supported for 11.5(1)SU7, 12.5(1)SU2, and later releases
- Oracle Directory Services Enterprise Edition 11gR1 (11.1.1.7.x or newer)
- Oracle Unified Directory 12cPS3 (12.2.1.3.0)
- Open LDAP 2.4.44 or later
- Other LDAPv3 Compliant Directories—Unified Communications Manager uses standard LDAPv3 for accessing the user's data. Ensure that the supportedcontrol attribute is configured in the LDAPv3 compliant directory servers to be used with DirSync. (The supportedcontrol attribute may return the pagecontrolsupport and persistentcontrolsupport sub attributes, if configured.)

Federation Support

SIP Federation/SIP Open Federation Support

SIP Open Federation is supported as of 12.5(1)SU3.

The following table lists supported SIP Controlled and SIP Open Federation integrations:

Table 13: Supported SIP Controlled and Open Federations

Third-Party System	Single Enterprise Network* (Intradomain or Interdomain Federation)		Business to Business (Interdomain Federation)
	Direct Federation	via Expressway	via Expressway
Skype for Business 2015 (on-premise)	Y	Not supported	Y (Traffic Classification)
Office 365 (uses a cloud-hosted Skype for Business)	Not applicable	Not applicable	Y (Traffic Classification)

* The Single Enterprise Network can be partitioned intradomain federation or interdomain federation as the support values are the same for each. Business to Business integrations are always interdomain federation.

Supported XMPP Federations

This release of IM and Presence Service supports XMPP Federation with the following systems:

- Cisco Webex Messenger
- IM and Presence Service Release 10.x and up
- Any other XMPP-compliant system

Intercluster Peering Support

This release of the IM and Presence Service supports intercluster peering with the following IM and Presence Service releases:

- Release 10.x
- Release 11.x
- Release 12.x
- Release 14 and above

Calendar Integration with Microsoft Outlook

The IM and Presence Service supports Microsoft Outlook Calendar Integration with either an on-premise Exchange server or a hosted Office 365 server. See the table below for support information:

Table 14: Support Information for Calendar Integration

Component	Install Compatible Version
Windows Server	<ul style="list-style-type: none"> • Windows Server 2016 • Windows Server 2019—With 11.x releases, the minimum IM and Presence Service Release is 11.5(1)SU7. With 12.x releases, the minimum IM and Presence Service Release is 12.5(1)SU2.

Component	Install Compatible Version
Microsoft Exchange Server 2016	Microsoft Exchange 2016
Microsoft Exchange Server 2019	Microsoft Exchange 2019
Microsoft Office 365	See your Microsoft documentation for details on deploying a hosted Office 365 server. Note As of October 2020, Microsoft is changing the authentication mechanism that is supported by Exchange Online to use OAuth-based authentication only. After the change, if you want to deploy calendar integration between the IM and Presence Service and Office 365, you will need to upgrade the IM and Presence Service to Release 12.5(1)SU2. This change will not affect integration with an on-premises Exchange server.
Active Directory	<ul style="list-style-type: none"> • Active Directory 2012 with Windows Server 2012 • Active Directory 2016 with Windows Server 2016 Note User names configured in Active Directory must be identical to those names defined in Unified Communications Manager.
A Third-Party Certificate OR Certificate Server	One or the other of these is required to generate the certificates. Note Microsoft Exchange integration with IM and Presence Service supports certificates using RSA 1024 or 2048 bit keys and SHA1 and SHA256 signature algorithms.

Remote Call Control with Microsoft Lync

Microsoft Remote Call Control (RCC) allows enterprise users to control their Cisco Unified IP Phone or Cisco IP Communicator Phone through Microsoft Lync, a third-party desktop instant-messaging (IM) application. When a user signs in to the Microsoft Lync client, the Lync server sends instructions, through the IM and Presence Service node, to the Cisco Unified Communications Manager to set up, tear down and maintain calling features based on a user's action at the Lync client.



Note SIP federation and Remote Call Control (RCC) do not work together on the same IM and Presence Service cluster. This is because for SIP federation a user cannot be licensed for both Cisco IM and Presence Service and Microsoft Lync/OCS, but for RCC a user must be licensed for Cisco IM and Presence Service and Microsoft Lync/OCS at the same time.



Note An IM and Presence Service cluster that is used for RCC does not support Jabber or other IM and Presence Service functionality.

Software Requirements

The following software is required for integrating IM and Presence Service with Microsoft Lync Server:

- IM and Presence Service, current release
- IM and Presence Service Lync Remote Call Control Plug-in

- Cisco Unified Communications Manager, current release
- Microsoft Lync Server 2013 Release 4.x, Standard Edition or Enterprise Edition
 - Lync Server Control Panel
 - Lync Server Deployment Wizard
 - Lync Server Logging Tool
 - Lync Server Management Shell
 - Lync Server Topology Builder
- Microsoft 2013 Lync Client
- (Optional) Upgraded Skype for Business 2015 Client



Note The Skype for Business 2015 client must have been upgraded from a Lync 2013 client and must be registered to a Lync 2013 server.

- (Optional) Cisco CSS 11500 Content Services Switch
- Microsoft Domain Controller
- Microsoft Active Directory
- DNS
- Certificate Authority

Configuration

For additional details, including configuration information, see *Remote Call Control with Microsoft Lync Server for the IM and Presence Service* at <https://www.cisco.com/c/en/us/support/unified-communications/unified-presence/products-installation-and-configuration-guides-list.html>.

Supported Ciphers for the IM and Presence Service

IM and Presence Service supports the following ciphers:

Table 15: Unified Communications Manager IM & Presence Cipher Support for TLS Ciphers

Application / Process	Protocol	Port	Supported Ciphers
Cisco SIP Proxy	TCP / TLS	5061	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-ECDSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA: AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-ECDSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-ECDSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: ECDHE-ECDSA-AES128-SHA: AES128-GCM-SHA256: AES128-SHA256: AES128-SHA:CAMELLIA128-SHA: ECDHE-RSA-DES-CBC3-SHA: ECDHE-ECDSA-DES-CBC3-SHA: DES-CBC3-SHA ECDHE-RSA-AES256-SHA:
Cisco SIP Proxy	TCP / TLS	5062	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-ECDSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA: AES256-GCM-SHA384: AES256-SHA256:AES256-SHA: CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-ECDSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-ECDSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: ECDHE-ECDSA-AES128-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA: ECDHE-RSA-DES-CBC3-SHA: ECDHE-ECDSA-DES-CBC3-SHA: DES-CBC3-SHA ECDHE-RSA-AES256-SHA:

Application / Process	Protocol	Port	Supported Ciphers
Cisco SIP Proxy	TCP / TLS	8083	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-ECDSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA: AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-ECDSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-ECDSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: ECDHE-ECDSA-AES128-SHA: AES128-GCM-SHA256:AES128-SHA256: AES128-SHA:CAMELLIA128-SHA: ECDHE-RSA-DES-CBC3-SHA: ECDHE-ECDSA-DES-CBC3-SHA: DES-CBC3-SHA ECDHE-RSA-AES256-SHA:
Cisco Tomcat	TCP / TLS	8443, 443	ECDHE-RSA-AES256-GCM-SHA384: ECDHE-RSA-AES256-SHA384: DHE-RSA-AES256-GCM-SHA384: DHE-RSA-AES256-SHA256: DHE-RSA-AES256-SHA: DHE-RSA-CAMELLIA256-SHA: AES256-GCM-SHA384:AES256-SHA256: AES256-SHA:CAMELLIA256-SHA: ECDHE-RSA-AES128-GCM-SHA256: ECDHE-RSA-AES128-SHA256: ECDHE-RSA-AES128-SHA: DHE-RSA-AES128-GCM-SHA256: DHE-RSA-AES128-SHA256: DHE-RSA-AES128-SHA: DHE-RSA-CAMELLIA128-SHA: AES128-GCM-SHA256: AES128-SHA256:AES128-SHA: CAMELLIA128-SHA: ECDHE-RSA-DES-CBC3-SHA: EDH-RSA-DES-CBC3-SHA: DES-CBC3-SHA ECDHE-ECDSA-AES256-GCM-SHA384: ECDHE-ECDSA-AES256-SHA384: ECDHE-ECDSA-AES256-SHA: ECDHE-ECDSA-AES128-GCM-SHA256: ECDHE-ECDSA-AES128-SHA256: ECDHE-ECDSA-AES128-SHA: ECDHE-ECDSA-DES-CBC3-SHA ECDHE-RSA-AES256-SHA:

Application / Process	Protocol	Port	Supported Ciphers
Cisco XCP XMPP Federation Connection Manager	TCP / TLS	5269	ECDHE-RSA-AES256-GCM-SHA384 : ECDHE-ECDSA-AES256-GCM-SHA384 : ECDHE-RSA-AES256-SHA384 : ECDHE-ECDSA-AES256-SHA384 : ECDHE-ECDSA-AES256-SHA : AES256-GCM-SHA384 : AES256-SHA256 : AES256-SHA : CAMELLIA256-SHA : ECDHE-RSA-AES128-GCM-SHA256 : ECDHE-ECDSA-AES128-GCM-SHA256 : ECDHE-RSA-AES128-SHA256 : ECDHE-ECDSA-AES128-SHA256 : ECDHE-RSA-AES128-SHA : ECDHE-ECDSA-AES128-SHA : AES128-GCM-SHA256 : AES128-SHA256 : AES128-SHA : CAMELLIA128-SHA : ECDHE-RSA-DES-CBC3-SHA : ECDHE-ECDSA-DES-CBC3-SHA : DES-CBC3-SHA ECDHE-RSA-AES256-SHA :
Cisco XCP Client Connection Manager	TCP / TLS	5222	ECDHE-RSA-AES256-GCM-SHA384 : ECDHE-ECDSA-AES256-GCM-SHA384 : ECDHE-RSA-AES256-SHA384 : ECDHE-ECDSA-AES256-SHA384 : ECDHE-ECDSA-AES256-SHA : AES256-GCM-SHA384 : AES256-SHA256 : AES256-SHA : CAMELLIA256-SHA : ECDHE-RSA-AES128-GCM-SHA256 : ECDHE-ECDSA-AES128-GCM-SHA256 : ECDHE-RSA-AES128-SHA256 : ECDHE-ECDSA-AES128-SHA256 : ECDHE-RSA-AES128-SHA : ECDHE-ECDSA-AES128-SHA : AES128-GCM-SHA256 : AES128-SHA256 : AES128-SHA : CAMELLIA128-SHA : ECDHE-RSA-DES-CBC3-SHA : ECDHE-ECDSA-DES-CBC3-SHA : DES-CBC3-SHA ECDHE-RSA-AES256-SHA :



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