



Cisco TelePresence Video Communication Server

Release Note

First Published: September 2015

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Software version: X8.6.1

Product Documentation

The following documents provide guidance on installation, initial configuration, and operation of the product:

- [Cisco VCS Installation Guides](#)
- *Cisco TelePresence VCS Administrator Guide* in [Cisco TelePresence VCS Maintain and Operate Guides](#)
- *Cisco TelePresence VCS Serviceability Guide* in [Cisco TelePresence VCS Maintain and Operate Guides](#)
- [Cloud Extensions knowledge base](#)
- *Cisco VCS and Microsoft Lync Deployment Guide* in [Cisco TelePresence VCS Configuration Guides](#)

Features in X8.6.1

X8.6.1 is a maintenance release for the Cisco Expressway Series. The lists of [Open and Resolved Issues, page 6](#), have been updated.

The following features were introduced in X8.6:

Table 1 Feature history by release number

Feature / change	X8.6.1	X8.6
Lync Desktop Sharing	Supported	Supported
Cloud Extensions / Hybrid Services	Supported	Withdrawn
License bypass for calls to cloud-based Collaboration Meeting Rooms (CMRs)	Supported	Supported
New codec support: OPUS and H.265	Supported	Supported

Table 1 Feature history by release number (continued)

Feature / change	X8.6.1	X8.6
System Metrics Collection	Supported	Supported
Cisco DX Series endpoints over MRA	Supported with endpoint version 10.2.4(99) or later	Supported with endpoint version 10.2.4(99) or later
Cisco IP Phone 7800/8800 Series over MRA	Preview with endpoint version 10.3.1 or later	Preview with endpoint version 10.3.1 or later
Multiple Presence Domains via MRA	Preview	Preview
Japanese, Korean, Russian localizations	X8.5.1 UI	X8.5.1 UI
Changes and minor enhancements	Supported	Supported

Support for Desktop Sharing from Lync

The Cisco VCS now supports desktop or application sharing from Lync clients with conference participants using Cisco Collaboration endpoints.

The Cisco VCS does the transcoding of the Microsoft Remote Desktop Protocol (RDP), originating from the Lync client, into the Binary Floor Control Protocol (BFCP) used by many standards-based endpoints. The Cisco VCS does not perform the reverse transcoding from BFCP to RDP, and presentation towards Lync will go in the video channel as in previous releases.

The following deployments support desktop sharing from Lync:

Figure 1: Lync environment to TelePresence Server conference registered to VCS**Figure 2: Lync environment to TelePresence Server conference managed by TelePresence Conductor neighbored to VCS****Note:**

† If you are using the Optimize Resources feature with Lync desktop sharing, you need TelePresence Server version 4.2 or later

‡ If you are using the Optimize Resources feature with Lync desktop sharing, you need TelePresence Conductor version XC4.0 or later

To configure your Cisco Collaboration environment to interoperate with Microsoft Lync, see the *Microsoft Lync and Cisco VCS Deployment Guide* on the [VCS Configuration Guides](#) page.

Cloud Extensions / Hybrid Services

Note: Cloud Extensions was released with VCS X8.6. Version X8.6.1 is now the minimum version required for this feature. If you are using Cloud Extensions with VCS X8.6, you must upgrade to X8.6.1.

What are Cloud Extensions and what do they do?

Cisco Cloud Extensions empower cloud-based and premises-based solutions to deliver a more capable, better

integrated collaboration user experience.

Note: "Cloud Extensions" is a temporary group name for a growing number of hybrid services. Forthcoming versions of Cisco VCS software and documentation will use "Hybrid Services" in place of "Cloud Extensions".

Which services am I entitled to use?

When you purchase Cloud Extension services you get access to Cloud Collaboration Management—an administrative interface to the Cisco Collaboration Cloud. In Cloud Collaboration Management you can check your organization's service entitlements and enable features for your users.

What software do I need?

The on-premises components of Cloud Extensions are called "connectors", and the Cisco VCS software contains a management connector to manage registration and other connectors.

The management connector is dormant until you register. When you register, the management connector is automatically upgraded if a newer version is available.

The Cisco VCS then downloads any other connectors that you selected using Cloud Collaboration Management. They are not started by default and you need to do some configuration before they'll work.

How do I install, upgrade, or downgrade?

The connectors are not active by default, and will not do anything until you configure and start them. You can do this on new UI pages that the connectors install on the Cisco VCS.

Connector upgrades are made available through Cloud Collaboration Management, and the management connector will download the new versions to Cisco VCS when you have authorized the upgrade.

You can also deregister, which disconnects your Cisco VCS from Collaboration Cloud and removes all connectors and related configuration.

Note: We do not normally advise downgrading Cisco VCS, although we try to ensure that the interface remains accessible if you are forced to restore a previous version. However, we explicitly do not support a downgrade of the Cisco VCS software from X8.6 versions while the Cisco VCS is registered for Cloud Extensions. If you have to downgrade, **you must deregister from Cloud Extensions before you downgrade.**

Where can I read more about Cloud Extensions?

Cloud Extensions are continuously developed and may be published more frequently than Cisco VCS. This means that information about Cloud Extensions is maintained on the [Cloud Extensions help site](#), and several Cisco VCS interface pages link out to that site.

License Bypass for Calls to Collaboration Meeting Rooms (CMRs)

The Cisco VCS no longer requires traversal call licenses for calls to and from cloud-based CMRs. This includes SIP calls between Collaboration Cloud and the CMR Hybrid solution.

Note: This only applies when the dialed string does not need transformation on the Cisco VCS (for example, user@sitename.webex.com).

Although untransformed SIP calls to cloud-based CMRs do not consume licenses, they do consume resources and may not progress if the Cisco VCS is at full capacity.

There is no license bypass for CMR Premises calls. H.323 calls to cloud-based CMRs consume CMR licenses but not traversal licenses.

New Codec Support

The Cisco VCS now supports the H.265 video and OPUS audio codecs. The codecs are supported in SIP traversal calls (that is, calls where the Cisco VCS is handling the media streams).

These codecs are not supported on SIP - H.323 interworked or H.323 - H.323 calls.

System Metrics Collection

What is System Metrics Collection, and how does it work on Cisco VCS?

System Metrics Collection is a feature on Cisco VCS that publishes system performance statistics, enabling remote monitoring of performance.

The Cisco VCS collects statistics about the performance of the hardware, OS, and the application, and publishes these statistics to a remote host (typically a data analytics server) that aggregates the data.

Where do I configure System Metrics Collection?

You can configure this feature on Cisco VCS via the web interface or the command line. The configuration from one peer applies throughout the cluster, so we recommend that you configure it on the master peer if you are monitoring a cluster.

There is also some configuration required on the remote server; the collectd daemon should be running on the server, and should have the collectd network plugin configured to listen on an address that can be seen by the clients. Further details depend on your monitoring environment and are beyond the scope of this information.

How can I use this data?

You can use the data to generate graphs, aggregate statistics, and analyze performance, using tools such as Circonus and Graphite.

Where can I read more about System Metrics Collection?

For more detail, see the *Cisco Expressway Serviceability Guide* on the [Cisco Expressway Series Maintain and Operate Guides](#) page.

MRA Support for New Endpoints

Mobile and Remote Access is being expanded to include the following new endpoints.

The DX Series endpoints are officially supported via MRA if they are running version 10.2.4(99) or later. The Cisco IP Phone 78/8800 Series endpoints are not yet officially supported via MRA, but they must be running version 10.3.1 or later if you want to preview them with Mobile and Remote Access.

- [Cisco DX650](#)
- [Cisco DX80](#)
- [Cisco DX70](#)
- [Cisco IP Phone 8800 Series](#)
- [Cisco IP Phone 7800 Series](#)

When deploying DX Series or IP Phone 78/8800 Series endpoints to register with Cisco Unified Communications Manager via Mobile and Remote Access, you need to be aware of the following:

- **Phone security profile:** If the phone security profile for any of these endpoints has **TFTP Encrypted Config** checked, you will not be able to use the endpoint via Mobile and Remote Access. This is because the MRA solution does not support devices interacting with CAPF (Certificate Authority Proxy Function).

- **Trust list:** You cannot modify the root CA trust list on these endpoints. Make sure that the Cisco VCS Expressway's server certificate is signed by one of the CAs that the endpoints trust, and that the CA is trusted by the Cisco VCS Control and the Cisco VCS Expressway.
- **Bandwidth restrictions:** The **Maximum Session Bit Rate for Video Calls** on the default region on Cisco Unified Communications Manager is 384 kbps by default. The **Default call bandwidth** on Cisco VCS Control is also 384 kbps by default. These settings may be too low to deliver the expected video quality for the DX Series.

(Preview) Multiple Presence Domains / Multiple IM Address Domains via MRA

Jabber 10.6 can be deployed into an infrastructure where users are organized into more than one domain, or into domains with subdomains. This requires IM and Presence Service 10.0.x (or later).

Limited testing has shown that this feature works via MRA. Hence this feature is in preview with Cisco VCS X8.5.1 and later, pending further testing and full support in a future version of Cisco VCS.

Note: This feature is distinct from the multiple deployments feature released in X8.5. That feature is limited to one domain per deployment, where all IM and Presence Service clusters within a deployment serve a single domain. This feature is different because it concerns MRA support for all IM and Presence Service clusters within a deployment serving a common set of one *or more* Presence domains.

Each new domain impacts the Cisco VCS's performance. We currently recommend that you do not exceed 50 domains.

Updated Language Packs

Language packs are now available for the following languages. The packs include localized web interface and embedded webhelp. See *Install Language Packs* for details of changing the language pack.

- Japanese
- Russian
- Korean

Note: These localizations apply to the X8.5.1 versions of the UI and embedded help. They complete the set announced in the X8.5.3 release notes (Chinese, French, German, and Spanish).

Changes and Minor Enhancements

- There is a new option to modify the **SIP TCP connect timeout (Configuration > Protocols > SIP > Advanced)**. The default is 10 seconds.
- Mutual TLS authentication can now be configured for SIP calls (**Configuration > Protocols > SIP**). Two new parameters were added **Mutual TLS mode** (default Off) and **Mutual TLS port** (default 5062).
- A new zone parameter called **SIP parameter preservation** controls whether the SIP URI and Contact parameters are preserved between the zone and the B2BUA.
- A new zone parameter called **Preloaded SIP routes support** controls whether the zone processes SIP INVITE requests that contain the Route header.
- There is a new command line option to change the cipher suites used for SIP TLS connections. The command takes a colon-delimited string of cipher suites (see <https://www.openssl.org/docs/apps/ciphers.html#CIPHER-LIST-FORMAT>). For example, to set the current Cisco VCS default suite, use:


```
xConfiguration SIP TLS CipherSuite: ALL:!EXP:!LOW:!MD5:@STRENGTH:+ADH
```
- The diagnostic log now includes two new .xml files, to record the xconfig and xstatus of the Cisco VCS at the time the log was taken.

- The **Call Detail Records (CDR)** switch has moved from the **System > Administration** page to the **Maintenance > Logging** page.
- The CLI commands `xCommand LoginUserAdd` and `xCommand LoginUserDelete` have been replaced by `xCommand CredentialAdd` and `xCommand CredentialDelete`.
- The hop count logic has changed so that internal hops between the Cisco VCS application and its B2BUA do not decrement the hop count.
- Several advanced zone parameters have been removed because they are no longer required. These are **SIP SDP attribute line limit mode**, **SIP SDP attribute line limit length**, and **SIP Duo Video filter mode**.
- The **Maximum authorizations per period** default has increased to 8.

Open and Resolved Issues

Follow the links below to read the most recent information about the open and resolved issues in this release. You need to refresh your browser after you log in to the Cisco Bug Search Tool.

- [All open issues, sorted by date modified \(recent first\)](#)
- [Issues resolved by X8.6.1](#)
- [Issues resolved by X8.6](#)

Notable Issues in this Version

CSCuw30911: Jabber Guest has one-way audio/video when Expressway is upgraded to X8.6.1

An incompatibility between all versions of Jabber Guest server and Cisco VCS X8.6.1 results in the Jabber Guest client not decoding media from Jabber Guest server. The incompatibility exists in the negotiation of secure media (SRTP/SRTCP).

The incompatibility will be addressed in one or both of the products in a future release. In the meanwhile, choose one of the following workarounds, depending on which has least impact for your deployment:

- Workaround: Downgrade Cisco VCS to your previous version, or postpone upgrading until the issue is resolved.
Impact: You do not benefit from fixes in X8.6.1.
- Workaround: Disable SRTP on Jabber Guest server, which will allow RTP flow between the Jabber Guest client and Cisco VCS Expressway.
Impact: Unencrypted media flows in the public internet, between web client and Cisco VCS Expressway. We do not recommend this option.

CSCuv47574: SDP Decode Fails when Trying to Split IM&P and Video From Lync

This issue in X8.6 prevents a previously published Lync federation deployment from working as it did in X8.5. If you are using the affected deployment, we recommend that you do not upgrade to X8.6.

The affected deployment is documented in *Appendix 1: Federation*, of the *Microsoft Lync and Cisco VCS Deployment Guide*, on the [Cisco VCS Configuration Guides page](#).

Limitations

Unsupported Features (General)

- DTLS is not supported through the Cisco VCS Control/Cisco VCS Expressway. SRTP is used to secure calls instead; attempts to make DTLS calls will fail.
- SIP UPDATE method. Features that rely on the SIP UPDATE method ([RFC 3311](#)) will not work as expected because the Cisco VCS does not support this method.

- Audio calls may be licensed as video calls in some circumstances. Calls that are strictly audio-ONLY consume fewer licenses than video calls. However, when audio calls include non-audio channels, such as the iX channel that enables ActiveControl, they are treated as video calls for licensing purposes.

Unsupported Endpoint Features When Using Mobile and Remote Access

Note: This list contains known limitations and is not exhaustive. The MRA deployment does not necessarily support pass through of line-side features provided by Cisco Unified Communications Manager. Absence of such items from this list does not imply that they are supported.

- Calls to/from additional lines on IP phones and endpoints that support multiple lines; only the primary line is supported via Mobile and Remote Access
- Directory access mechanisms other than UDS
- Certificate provisioning to remote endpoints e.g. CAPF
- Features that rely on the SIP UPDATE method ([RFC 3311](#)) will not work as expected because the Cisco VCS does not support this method. For example, CUCM and endpoints use UPDATE to implement blind transfer, which does not work correctly via MRA.
- Peer-to-peer file transfer when using IM and Presence Service and Jabber is unsupported via MRA
 - Managed File Transfer (MFT) with IM and Presence Service 10.5.2 (and later) and Jabber 10.6 (and later) clients is supported via MRA
 - File transfer with WebEx Messenger Service and Cisco Jabber is supported via MRA
- Deskphone control (QBE/CTI)
- Additional mobility features including DVO-R, GSM handoff and session persistency
- Hunt group/hunt pilot/hunt list
- Self-care portal
- Support for Jabber SDK
- Shared lines are supported in a limited way. Multiple endpoints can share a line but in-call features (like hold/resume) only work on the first endpoint that answers. Endpoints sharing the line may not correctly recognise the state of the call.

Unsupported Cisco VCS Features and Limitations When Using Mobile and Remote Access

- The Cisco VCS cannot be used for Jabber Guest when it is used for MRA.
- The Cisco VCS Control used for Mobile and Remote Access cannot also be used as a Lync 2013 gateway (if required, this must be configured on a stand-alone Cisco VCS Control).
- Secure XMPP traffic between Cisco VCS Control and IM&P servers (XMPP traffic is secure between Cisco VCS Control and Cisco VCS Expressway, and between Cisco VCS Expressway and remote endpoint).
- Endpoint management capability (SNMP, SSH/HTTP access).
- Multi-domain and multi-customer support is limited as follows:
 - Prior to X8.5, each Cisco VCS deployment supported only one IM&P domain (even though IM and Presence Service 10.0 or later supports Multiple Presence Domains).
 - As of X8.5, you can create multiple deployments on the Cisco VCS Control, but this feature is still limited to one domain per deployment.
 - As of X8.5.1, a deployment can have Multiple Presence Domains. This feature is in preview, and we currently recommend that you do not exceed 50 domains.
- Mobile and remote access functionality is not within the FIPS boundary.
- NTLM authentication via the HTTP proxy.

- Maintenance mode; if the Cisco VCS Control or the Cisco VCS Expressway is placed into maintenance mode, any existing calls passing through that Cisco VCS will be dropped.
- The Cisco VCS Expressway must not have TURN services enabled.
- Deployments on Large VM servers are limited to 2500 proxied registrations to Unified CM (the same limit as Cisco VCS appliances or equivalent VM).

MRA Preview of Cisco IP Phone 78/8800 Series

The Cisco IP Phone 78/8800 Series endpoints are not yet officially supported via MRA, but they must be running version 10.3.1 or later if you want to preview them with Mobile and Remote Access.

Interoperability

The interoperability test results for this product are posted to <http://www.cisco.com/go/tp-interop>, where you can also find interoperability test results for other Cisco TelePresence products.

Upgrade to X8.6.1

Prerequisites and Software Dependencies

Existing TMS Agent (Legacy Mode) Provisioning Deployments

Cisco VCS X8.1 and later no longer supports TMS Agent (legacy mode) provisioning. **Before you upgrade to X8 or later**, if you are using TMS Agent (legacy mode) for provisioning you must first migrate to Cisco TelePresence Management Suite Provisioning Extension which requires TMS 13.2.x. See *Cisco TMS Provisioning Extension Deployment Guide* for instructions about how to migrate.

Existing OCS Relay Deployments

Cisco VCS X8.1 and later no longer supports OCS Relay integration with Microsoft Lync 2010 / OCS 2007 R2. If you use OCS Relay you must migrate to using the Microsoft Lync B2BUA to route SIP calls between the Cisco VCS and a Microsoft Lync Server. See *VCS and Microsoft Lync Deployment Guide* for information about how to configure your video network.

Existing Non-AES Build Installations

As of version X8.1, the software uses AES encryption. Prior to this, a version that used weaker encryption was available. If you are upgrading to X8.1 or later (or another version that uses AES) from a version that used the weaker encryption, you **must** perform a factory reset. Proceed as follows to ensure you can upgrade in future:

1. Record all your software configuration details
2. Upgrade the software with the AES-encryption version
All configuration will be lost
3. Perform a factory reset
4. Manually reconfigure the software

Upgrade Instructions

When maintenance mode is enabled on Cisco VCS, existing calls passing through it may be dropped. We recommend that you upgrade Cisco VCS components while the system is inactive.

If you are upgrading a Cisco VCS that uses clustering, device provisioning (Cisco TMSPE) or FindMe (with Cisco TMS managing Cisco VCS), you must follow the directions in *Cisco VCS Cluster Creation and Maintenance Deployment Guide*.

Follow the procedure below for upgrading Cisco VCS to X8.6.1, only if all of the following apply:

- The Cisco VCS is not part of a cluster
- Device provisioning is not in use
- Cisco TMS is not managing the Cisco VCS
- Cisco VCS is currently running X5.1.1 or later

To upgrade a Cisco VCS:

1. Backup the Cisco VCS (Maintenance > Backup and restore).

You should backup your system before upgrading. If you later need to downgrade to an earlier release you will have to restore a backup made against that previous release.

If your system was delivered with X6.1 pre-installed, you must make some configuration changes before using the backup process as described in the section below.

2. Enable maintenance mode.

Log in to the Cisco VCS as admin (SSH or serial), and at a command prompt, type:

```
xConfiguration SystemUnit Maintenance Mode: On
```

Note that from X8.1 you can enable maintenance mode via the web interface (**Maintenance > Maintenance mode**).

3. Wait for all calls to clear and registrations to timeout.

- If necessary, manually remove any calls that do not clear automatically (**Status > Calls**, click **Select all** and then click **Disconnect**).
- If necessary, manually remove any registrations that do not clear automatically (**Status > Registrations > By device**, click **Select all** and then click **Unregister**).

4. Upgrade and restart the Cisco VCS (Maintenance > Upgrade).

Note that when upgrading to a new major release, for example from X7.n to X8.n you need to supply a valid release key as a part of the upgrade process.

The web browser interface may timeout during the restart process, after the progress bar has reached the end. This may occur if the Cisco VCS carries out a disk file system check – which it does approximately once every 30 restarts.

The upgrade is now complete and all Cisco VCS configuration should be as expected.

Upgrade Cisco VCS Control and Cisco VCS Expressway systems connected over a traversal zone

We recommend that Cisco VCS Control (traversal client) and Cisco VCS Expressway (traversal server) systems that are connected over a traversal zone both run the same software version.

However, we do support a traversal zone link from one Cisco VCS system to another that is running the previous major release of Cisco VCS. This means that you do not have to simultaneously upgrade your Cisco VCS Control and Cisco VCS Expressway systems.

Note that certain features introduced in recent software versions (such as Mobile and Remote Access) require both the Cisco VCS Control and Cisco VCS Expressway systems to be running the same software version.

Back up Cisco VCS units delivered with X6.1 pre-installed

If your system was delivered with X6.1 pre-installed, you must make some configuration changes before using the backup process. You do not need to follow these additional steps if you do not have X6.1 installed or your installation of X6.1 is the result of an upgrade from a previous release. To ensure that all of your data is backed up:

1. Log in to the Cisco VCS as root user.
2. Enter the following commands:

```
mkdir /tandberg/persistent/oti
mkdir /tandberg/persistent/management
```
3. Exit the root account.

Upgrade from older releases

- We strongly recommend installing a new server certificate if you are upgrading from any version of Cisco VCS released prior to X8.1.1.
- The certificate signing request storage location changed in X8.

When you generate a CSR in X7, the application puts **csr.pem** and **privkey_csr.pem** into **/tandberg/persistent/certs**.

When you generate a CSR in X8, the application puts **csr.pem** and **privkey.pem** into **/tandberg/persistent/certs/generated_csr**.

If you want to upgrade from X7 and have an unsubmitted CSR, then we recommend discarding the CSR before upgrade, and then regenerating the CSR after upgrade.

- You cannot upgrade to X7.n or later from releases prior to X5.1.
You must first upgrade to X5.2 and then to X7.n or later. See the X5.2 release notes for details.

Install Language Packs

You can install new language packs or install an updated version of an existing language pack.

Language packs are downloaded from the same area on cisco.com from where you obtain your Cisco VCS software files. All available languages are contained in one language pack zip file. Download the appropriate language pack version that matches your software release.

After downloading the language pack, unzip the file to extract a set of .tlp files, one per supported language.

To install a .tlp language pack file:

1. Go to **Maintenance > Language**.
2. Click **Browse** and select the **.tlp** language pack file you want to upload.
3. Click **Install**.

The selected language pack is then verified and uploaded. This may take several seconds.

4. Repeat steps 2 and 3 for any other languages you want to install.

After upgrading to this software release, if you have previous language packs installed, you will see a "Language pack mismatch" alarm. Updated language packs for this release will be made available soon. In the meantime you will see a mixture of some text in your chosen language and some text (predominantly text related to new features) in English.

Note that:

- English (en_us) is installed by default and is always available.
- You cannot create your own language packs. Language packs can be obtained only from Cisco.

Available languages

The following table lists the set of languages currently available and the .tlp filename used to refer to that language.

Table 2 Available language packs

Language	.tlp filename format
Chinese (Simplified)	vcs-lang-zh-cn_<ver>.tlp
French	vcs-lang-fr-fr_<ver>.tlp
German	vcs-lang-de-de_<ver>.tlp
Japanese	vcs-lang-ja-jp_<ver>.tlp
Korean	vcs-lang-ko-kr_<ver>.tlp
Russian	vcs-lang-ru-ru_<ver>.tlp
Spanish	vcs-lang-es-es_<ver>.tlp

Use the Bug Search Tool

The Bug Search Tool contains information about open and resolved issues for this release and previous releases, including descriptions of the problems and available workarounds. The identifiers listed in these release notes will take you directly to a description of each issue.

To look for information about a specific problem mentioned in this document:

1. Using a web browser, go to the [Bug Search Tool](#).
2. Sign in with a cisco.com username and password.
3. Enter the bug identifier in the **Search** field and click **Search**.

To look for information when you do not know the identifier:

1. Type the product name in the **Search** field and click **Search**.
2. From the list of bugs that appears, use the **Filter** drop-down list to filter on either *Keyword*, *Modified Date*, *Severity*, *Status*, or *Technology*.

Use **Advanced Search** on the Bug Search Tool home page to search on a specific software version.

The Bug Search Tool help pages have further information on using the Bug Search Tool.

Obtain Documentation and Submit a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see What's New in Cisco Product Documentation at: www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html.

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Document Revision History

Table 3 VCS release notes revisions

Date	Revision	Description
August 2017	Document update	License bypass for calls to CMR description updated to say H.323 calls to cloud-based CMRs consume CMR licenses but not traversal licenses.

Table 3 VCS release notes revisions (continued)

Date	Revision	Description
September 2015	Document update	Republished with description of notable issue CSCuw30911
September 2015	Maintenance release	X8.6.1 Release. Resolved issues updated. X8.6 feature support for Cloud Extensions withdrawn.
August 2015	Feature update	Republished post DX Series 10.2.4(99) release; those endpoints now officially support MRA
July 2015	First publication	X8.6 Release



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