



Cisco Meeting Server and web app

Release 3.11.1

Release Notes

03 June, 2025

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What's changed

Version	Change
June 3, 2025	Maintenance release for 3.11.1 See Resolved issues and Support for higher audio sampling rate .
April 30, 2025	First release for version 3.11

1 Introduction

This document describes the new features, improvements and changes in version 3.11.1 of the Cisco Meeting Server software and Cisco Meeting Server web app.

1.1 Cisco Meeting Server

The Cisco Meeting Server software can be hosted on:

- Cisco Meeting Server 2000, a UCS 5108 chassis with 8 B200 blades and the Meeting Server software pre-installed as the sole application.
- Cisco Meeting Server 1000, a Cisco UCS server pre-configured with VMware and the Cisco Meeting Server installed as a VM deployment.
- Or on a specification-based VM server.

Throughout the remainder of these release notes, the Cisco Meeting Server software is referred to as the Meeting Server.

Note: Cisco Meeting Management handles the product registration and interaction with your Smart Account for Smart Licensing support. Meeting Management 3.11 is required with Meeting Server 3.11.

- **Upgrade:** The recommended work flow is to first upgrade Meeting Management, complete Smart Licensing, and then upgrade Meeting Server.
-

If you are upgrading from a previous version, you are advised to take a configuration backup using the `backup snapshot <filename>` command, and save the backup safely on a different device. See the MMP Command Reference document for full details.

1.2 Cisco Meeting Server web app

Cisco Meeting Server web app (web app) is a browser-based client for Cisco Meeting Server that lets users join meetings (audio and video) and share what is on their screen.

1.2.1 Using the web app

Web app allows you to join meetings with audio and video in a space. You can also share a screen or presentation in your meeting.

You can add or remove members to a space. You can also invite people both inside and outside of your organization to meetings.

Note: A space is a persistent virtual meeting room that a group of users can use at any time for a meeting. For more details refer to the Online Help or User Guide for web app.

You can use the web app on desktop, mobile or tablet from any of the supported browsers . See [list of browsers](#) for details.

Refer to the online help or User Guide for Cisco Meeting Serverweb app for detailed instructions on how to use the web app.

You can choose from the following options based on what you want to do:

- Sign in to the web app – You can sign in to web app, join meetings, view a list of all spaces you are a member of and view joining methods and copy the invitation details to invite someone to your meeting. You can create a space using pre-configured templates, edit or delete a space if you have appropriate permissions.
- Join a meeting – Use this option if you have been invited to a meeting. The invitation should include some details such as a meeting ID, passcode (optional), or a video address (URI).
- Schedule a meeting – To schedule a meeting, click Schedule meeting on the home page. Type a name and the select the space you want to use for the meeting. The meeting can be scheduled for one instance or to recur daily, weekly or monthly. You can add all the members of the selected space or add selected participants and configure their roles for the meeting.

1.3 Smart Licensing

From the 3.4 release onwards, Smart licensing is mandatory for Meeting Server. The support for traditional licensing has been deprecated from 3.4 and later releases. Customers are advised to move to Smart licensing.

For more information on Smart Licensing and upgrading Meeting Management, see Meeting Management [Release Notes](#) .

1.4 End of Software Maintenance

On release of Cisco Meeting Server software version 3.11, Cisco announced the time line for the end of software maintenance for the software in Table 1.

Table 1: Time line for End of Software Maintenance for versions of Cisco Meeting Server

Cisco Meeting Server software version	End of Software Maintenance notice period
Cisco Meeting Server 3.9	The last date that Cisco Engineering may release any final software maintenance releases or bug fixes for Cisco Meeting Server version 3.9.x is October, 2025

For more information on Cisco's End of Software Maintenance policy for Cisco Meeting Server click [here](#).

1.5 Deprecation Notice

Cisco has initiated the process of deprecating support for Skype for Business and TelePresence Interoperability Protocol in the Meeting Server. Support for these features will be removed in a future release. We recommend preparing for the transition to supported alternatives to avoid any disruption in the service.

2 What's new in Cisco Meeting Server

This section of the document lists the following new features and changes implemented in Meeting Server 3.11:

- [Support for TLS 1.3 on scheduler](#)
- [Security improvements - Securely storing user data](#)
- [API enhancements to implement participant rotation](#)
- [Support for higher audio sampling rate](#)
- [Adding customized help links in web app \(Beta support\)](#)
- [Sharing IP Address and device information of participants using CDR](#)

2.1 Support for TLS 1.3 on scheduler

Support for TLS 1.3 was introduced in version 3.10 for all components with the exception of the Scheduler component. It supported on SIP, LDAP, SYSLOG, HTTPS (inbound connections: API, Web Admin and Web Bridge 3; outbound connections: CDRs), and RTMPS.

From this release, Meeting Server introduces support for negotiating TLS 1.3 on all Scheduler interfaces.

Note:

- TLS 1.3 supports Cisco Unified Communications Manager with SIP interface, however it has not been validated for Cisco Unified Communications Manager IM & Presence interop scenarios and will be validated in the upcoming releases.
 - TLS 1.3 has not been validated with FIPS.
-

2.2 Security improvements - Securely storing user data



WARNING: Proceed with caution. This operation will modify the configuration settings that cannot be restored and must be performed only by Administrators.

Version 3.11 enhances the Meeting Server's security specifications for downloading private keys using SFTP and WinSCP. Secure Storage restricts the download of unencrypted private keys and ensures only encrypted keys can be downloaded.

Secure storage enhancements are implemented as a configurable option on VM deployments (specification based or Meeting Server 1000) and can be enabled using the new **secure_storage enable** MMP command.

CAUTION: Once enabled, **Secure Storage cannot be disabled** using any command. This operation is **irreversible**. Only a `<factory_reset full>` command will reset the secure storage settings, and all the corresponding changes in the system will be reset. Therefore, it is recommended to **take a backup of the configuration** settings using the `backup snapshot <filename>` command before enabling secure storage. See the [MMP Command Reference document](#) for complete details on taking a backup.

The private keys must be encrypted using the new `pki encrypt <key> <encrypted-key>` command before downloading, else the permission to download the keys will be denied. This will not have any impact on the private keys currently used by any of the Meeting Server services. Refer to *Administrator Quick Reference Guide for Secure Storage* for details.

2.2.1 Points to note before enabling secure storage

- Once enabled, **Secure Storage cannot be disabled** using any command. This operation is **irreversible**. Only a `<factory_reset full>` command will reset the secure storage settings, and all the corresponding changes in the system will be reset.
- Take a backup of the configurations using the `backup snapshot <filename>` command and save the backup file safely on a different device. See the [MMP Command Reference document](#) for complete details.
- If Secure Storage is enabled, Administrators cannot download the private keys without encrypting; the permission to download the keys will be denied.
- The current release **does not support** Secure Storage when **FIPS** is enabled. FIPS must be disabled before enabling secure storage.

2.2.2 Points to note about upgrade scenarios with secure storage enabled

The upgrade image version must be 3.11 or later.

Upgrade scenarios	Impact on Upgrade process
Upgrading from version 3.10 and below	No changes.
Upgrading from 3.11 with Secure Storage enabled	If the upgrade image is not 3.11 or later, (i.e., does not support secure storage) upgrade will be aborted.
Upgrading from 3.11, that has secure storage but is disabled.	No changes.

Note: Renaming the upgrade image will not have any impact on the secure storage settings.

2.2.3 Points to note while moving/cloning VM when secure storage is enabled

It is recommended to preserve the MAC address while moving/ cloning the VMs when secure storage is enabled, for the storage's update/ retrieve to function properly.

2.2.4 MMP additions and modifications

CAUTION: Once enabled, **Secure Storage cannot be disabled** using any command. This operation is **irreversible**. Only a `<factory_reset full>` command will reset the secure storage settings, and all the corresponding changes in the system will be reset. Therefore, it is recommended to **take a backup of the configuration** settings using the `backup snapshot <filename>` command before enabling secure storage. See the [MMP Command Reference document](#) for complete details on taking a backup.

The following commands are added as part of this implementation:

Command	Description
<code>secure_storage enable</code>	<p>This command enables secure storage enhancements in the Meeting Server. This operation is irreversible, and a warning message is displayed accordingly.</p> <p>The system must be rebooted to initialize the secure storage enhancements. Select Y when prompted to reboot, else the changes will not be applied if the reboot is aborted.</p>
<code>pki encrypt <key> <encrypted-key></code>	This command encrypts the private keys in the Meeting Server.

When Secure Storage is enabled, the following **pki** commands are modified to provide additional details accordingly:

Command	Description
<code>pki unlock <key> <unencrypted-key></code>	This command is modified to keep both the original version of the locked file and create a new unlocked or decrypted version of the file. The user must provide the file name for the unlocked version of the file. However, when this command is used to unlock a plain key, the unlocked version of the file is not created, and a message is displayed indicating the same.
<code>pki list</code>	The display format of this command is modified. It is displayed in the format of rows and columns with field names categorizing the File-Type, Encrypted, FileName, Encrypted-From, and Unlocked-From.
<code>pki inspect <file></code>	This command is modified to remove the prompt to enter the passphrase for the command. The command does not prompt to enter the passphrase.
<code><factory_reset full></code>	When this command is used, the system displays the list of configurations that will be reset. This command is modified to include secure storage in the list of configurations that will be reset.

2.3 API enhancements to implement participant rotation

Meeting Server now allows the administrators to assign a rotational pane, that displays the participants who do not have importance level or a fixed pane set in the pane placement arrangement. Each participant, with active video, is displayed for a duration of 20 seconds in a rotational sequence, making it easier to manage participant visibility during meetings. This applies for both SIP and web app participants.

Administrators can assign a pane for rolling/rotating participants at the call level or at the per-participant level, where a particular participant can have a different view of the rotate pane. The range for the Rotate pane can be set from 'highest importance' to 1 (inclusive).

Note: It is recommended to assign the rotating pane at either the call level or per participant level and not on both.

2.3.1 API additions

To assign a pane at the call level:

A new API parameter, **panePlacementRotatePaneImportance**, is introduced to assign a rotate pane at the call level. The parameter is supported on the following API methods:

- POST /calls
- PUT /calls/<call id>
- GET /calls/<call id>

Parameter	Type/value	Description
panePlacementRotatePaneImportance	Numeric	This will take the rotate pane importance value that can be assigned for the call. When panePlacementRotatePaneImportance is set to n, the nth pane will be set as the rotate pane. If unset, the rotate pane is not assigned.

To assign a pane at the participant level:

A new API parameter **rotateImportance** is introduced on the Participant Related methods:

- POST /participants/<participant id>/importanceData
- GET /participants/<participant id>/importanceData
- DELETE /participants/<participant id>/importanceData

Parameter	Type/value	Description
rotateImportance	Numeric	This will take the rotate pane importance value that can be assigned to a particular participant. When rotateImportance is set to n, the nth pane will be set as the rotate pane. Minimum value is 0 to disable the rotate pane for a particular participant.

Let us consider an example of the following pane placement assignment for a particular participant, Andy, in a meeting.

Mark	Andy
Rotate pane showing participants without any reserved pane	Sally

In an allEqualQuarters layout with **panePlacementHighestImportance** set to 4, **panePlacementSelfPaneMode** set to self and **rotateImportance** set to 2:

pane #1 is reserved for a participant with importance set to 4, Mark.

pane #2 is reserved for a participant with importance set to 3, Andy

pane #3 is reserved for participants without fixed panes, rotateimportance set to 2

pane #4 is reserved for a participant with importance set to 1, Sally

POST/GET /DELETE to `http://localhost:<port>/api/v1/participants/Andy participant ID/importanceData/`

```
{
  "highestImportance":4,
  "rotateImportance":2,
  "importanceData":
  [
    {
      {"id": "Mark participant ID", "importance":4},
      {"id": "Andy participant ID", "importance":3},
      {"id": "Sally participant ID", "importance": 1}},
  ]
}
```

}

Note: In a clustered setup with over 25 participants, it is advised to mute everyone except the active speakers to ensure the rotate pane functions effectively.

2.4 Support for higher audio sampling rate

In version 3.11, Meeting Server was upgraded to support audio at a higher sampling rate of 44.1 kHz from the call bridge to the streamer. This was introduced as a beta feature. From Meeting Server 3.11.1, this is a fully supported feature. Meeting Server can be configured to stream the audio on the AAC-LC codec at a sampling rate of 44.1 kHz for improved audio quality and clarity.

New MMP commands `callbridge aac-lc-44.1k <enable|disable>` and `streamer aac-lc-44.1k <enable|disable>` are added to enable this support on call bridge and streamer, respectively. The commands must be enabled on both the callbridge and streamer for the feature to work. Restart the callbridge and streamer for the changes to be applied.

If the commands are not enabled, the audio is streamed at the default sampling rate of 32 kHz.

2.4.1 MMP additions

Command	Description
<code>callbridge aac-lc-44.1k <enable disable></code>	Configures call bridge to stream audio at a higher sampling rate of 44.1 kHz on AAC-LC codec. Restart the callbridge for the changes to be applied.
<code>streamer aac-lc-44.1k <enable disable></code>	Configures streamer to operate at a higher audio sampling rate of 44.1 kHz on AAC-LC codec. Restart the streamer for the changes to be applied.

2.5 Adding customized help links in web app (Beta support)


Version 3.11 introduces enhancements to the customization capability in the Meeting Server. Administrators can define their own help pages for web app users and configure the server to redirect the web app's default help link to display the custom pages. This allows organizations to provide user-specific reference content.

This feature requires an active customization license in this release but will be available without a license in the subsequent release.

This feature is supported on the web app only.

Note: Cisco does not guarantee that a beta feature will become a fully supported feature in the future. Beta features are subject to change based on feedback, and functionality may change or be removed in the future.

To redirect the help pages to external custom help pages, add **brand_external_help_link** in the

text_strings_xx_XX.json file. When the user clicks on the  help icon, they are directed to the custom help link provided in this file. However, if the link to the external help pages is not added, then the help icon directs to the default Online Help Pages. For details, refer to *Cisco Meeting Server 3.11 Customization Guidelines* document.

Note: The custom help page configured in the Meeting Server will replace every help link across the web app. This includes the sign-in page, in-meeting page, and cookie notification page. Therefore, when the custom help link is set in the Meeting Server, the administrators must ensure it has all the required information. In case of an invalid URL or multiple URLs, the custom help page displays an error message.

2.6 Sharing IP Address and device information of participants using CDR

From version 3.11, Meeting Management displays the device information and IP address of the participants present in a meeting.

This is implemented by adding a new CDR type, "**participantInfoStart**", which will send the IP address and device type of the participant to the Meeting Management. This CDR type is generated per participant in a call and is supported on devices using the IPv4 protocol only. It contains **callLeg ID**, **IP address**, and **deviceType**. The **deviceType** will include the browser name and version for web app participants and the device name for participants joining from SIP endpoints.

The device information is shared just once when the participant joins the call and is not dynamically updated during the call, with the exception of when a participant reconnects after being disconnected. The device details are not updated if there is any change in IP address or device name due to manually changing the name or updating the VPN or browser update during the call.

The structure of the record in XML format is shown below.

```
<?xml version="1.0"?>
<records session="61abb23c-c68d-43f4-aaea-c931737b0693">
<record type="participantInfoStart" time="2024-12-17T11:19:26Z"
recordIndex="6" correlatorIndex="5">
\n
<callLeg ID="631fb7d3-6042-441a-92f673155548fa55">
<ipAddress>10.110.133.8</ipAddress>
<deviceType>Firefox/133</deviceType>
</callLeg>
</record>
```

```
\n
</records>
```

2.6.1 CDR changes

Record type	Description
participantInfoStart	This record is generated when a call leg is created and when the IP address and device type are available. The record contains callLeg ID, IP address, and deviceType. This CDR type is generated per participant in a call and is supported on devices using the IPv4 protocol only.

2.7 Summary of API additions and changes

API functionality for Meeting Server 3.11 includes the following new API parameters.

The following API parameters are added to assign a rotate pane:

rotateImportance is introduced on the Participant Related methods at the participant level:

- POST /participants/<participant id>/**importanceData**
- GET /participants/<participant id>/**importanceData**
- DELETE /participants/<participant id>/**importanceData**

panePlacementRotatePaneImportance is introduced at the call level:

- POST /calls
- PUT /calls/<call id>
- GET /calls/<call id>

2.8 Summary of MMP additions and changes

The following commands are added to enable **Higher audio sampling rate** (Beta support)

Command	Description
callbridge aac-lc-44.1k <enable disable>	Configures call bridge to stream audio at a higher sampling rate of 44.1 kHz on AAC-LC codec. Restart the callbridge for the changes to be applied.
streamer aac-lc-44.1k <enable disable>	Configures streamer to operate at a higher audio sampling rate of 44.1 kHz on AAC-LC codec. Restart the streamer for the changes to be applied.

The following commands are added as part of the **Secure storage** implementation:

CAUTION: Once enabled, **Secure Storage cannot be disabled** using any command. This operation is **irreversible**. Only a `<factory_reset full>` command will reset the secure storage settings, and all the corresponding changes in the system will be reset. Therefore, it is recommended to **take a backup of the configuration** settings using the `backup snapshot <filename>` command before enabling secure storage.

Command	Description
<code>secure_storage enable</code>	<p>This command enables secure storage enhancements in the Meeting Server. This operation is not reversible, and a warning message is displayed accordingly.</p> <p>The system must be rebooted to initialize the secure storage enhancements. Select Y when prompted to reboot, else the changes will not be applied if the reboot is aborted.</p>
<code>pki encrypt <key> <encrypted-key></code>	This command encrypts the private keys in the Meeting Server.

When Secure Storage is enabled, the following **pki** commands provide additional details accordingly:

Command	Description
<code>pki unlock <key> <unencrypted-key></code>	This command is modified to keep both the original version of the locked file and create a new unlocked or decrypted version of the file. The user must provide the file name for the unlocked version of the file. However, when this command is used to unlock a plain key, the unlocked version of the file is not created, and a message is displayed indicating the same.
<code>pki list</code>	The display format of this command is modified. It is displayed in the format of rows and columns with field names categorizing the File-Type, Encrypted, FileName, Encrypted-From, and Unlocked-From.
<code>pki inspect <file></code>	This command is modified to remove the prompt to enter the passphrase for the command. The command does not prompt to enter the passphrase.
<code>factory_reset <full></code>	When this command is used, the system displays the list of configurations that will be reset. This command is modified to include secure storage in the list of configurations that will be reset.

2.9 Summary of CDR Changes

In version 3.11, a new call detail record type "**participantInfoStart**" is added to the Meeting Server.

Record type	Description
participantInfoStart	This record is generated when a call leg is created and when the IP address and device type are available. The record contains callLeg ID, IP address, and deviceType. This CDR type is generated per participant in a call and is supported on devices using the IPv4 protocol only.

2.10 Related user documentation

The following sites contain documents covering installation, planning and deployment, initial configuration, operation of the product, and more:

- Release notes (latest and previous releases):
<https://www.cisco.com/c/en/us/support/conferencing/meeting-server/products-release-notes-list.html>
- Install guides (including VM installation, Meeting Server 2000, and using Installation Assistant): <https://www.cisco.com/c/en/us/support/conferencing/meeting-server/products-installation-guides-list.html>
- Configuration guides (including deployment planning and deployment, certificate guidelines, simplified setup, load balancing white papers, and quick reference guides for admins): <https://www.cisco.com/c/en/us/support/conferencing/meeting-server/products-installation-and-configuration-guides-list.html>
- Programming guides (including API, CDR, Events, and MMP reference guides and customization guidelines):
<https://www.cisco.com/c/en/us/support/conferencing/meeting-server/products-programming-reference-guides-list.html>
- Open source licensing information:
<https://www.cisco.com/c/en/us/support/conferencing/meeting-server/products-licensing-information-listing.html>
- Cisco Meeting Server FAQs: <https://meeting-infohub.cisco.com/faq/category/25/cisco-meeting-server.html>
- Cisco Meeting Server interoperability database: <https://tp-tools-web01.cisco.com/interop/d459/s1790>

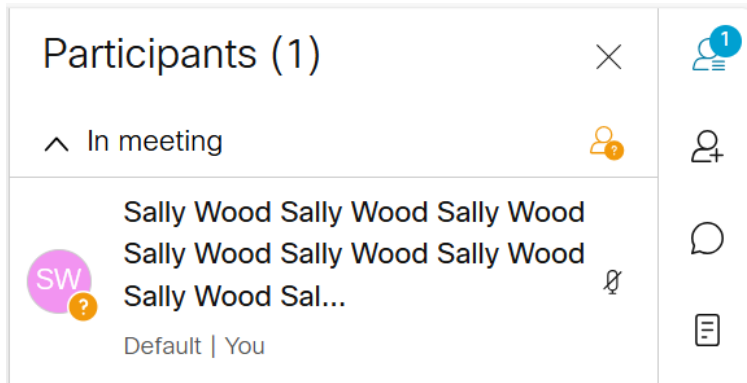
3 What's new in Cisco Meeting Server web app

This version of the web app software introduces the following new feature and changes:


- [Increased character limit for participant names](#)
- [Simplified tooltip for Restrict button](#)
- [User identification in Participants list](#)
- [Accessibility improvements](#)

3.1 Increased character limit for participant names

From 3.11, participant names now display up to 80 characters in both the participant list and chat window. In previous versions of web app, when a participant's name exceeded 24 characters, only the first 24 characters were displayed, followed by an ellipsis (...), and the remainder of the name was not visible in the participant list and chat window.






3.2 Simplified tooltip for Restrict button


The tooltip for the Restrict button  on the web app space information page, has been updated to enhance clarity. The tooltip is now changed to 'Limit space to members' and 'Allow space to all' when toggled.

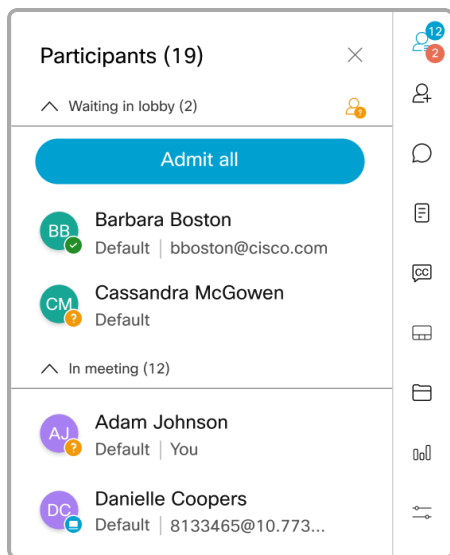
3.3 User identification in Participants list

In the previous versions of web app, the participant list did not indicate if the listed participants were signed-in, non signed-in users, or SIP users. From 3.11, appropriate icons are displayed next to each participant in the **Participants** list, making it easier to identify their joining method. The icons will be shown for participants in the lobby too.

The following table lists the icons and the corresponding joining method it identifies.

Icon beside the participant	User type
	Signed-in users
	Non-signed-in users
	SIP users Users connected by Webex, Skype, or external endpoints

For example, in the screenshot below, the icon,  indicates there are non-signed-in users in the meeting.



3.4 Accessibility improvements

In version 3.11, web app supports the following accessibility improvements:

- Doctype declaration for web app.
- Focus does not move to non-interactive content after navigating from 'Microphone' button.
- When using keyboard to navigate through web app, the shifting of focus now follows a logical order
 - In preferences menu when using Tab key to navigate.
 - In 'Join a meeting' pop-up when using Tab key to navigate.
 - On the space names on left navigation menu and within a space joining screen.

- When closing 'Join a meeting' pop-up by using Esc key.
- When dismissing Settings menu using Esc key.
- When right navigation menus (Participants, Chat, Surveys, etc.) are active, focus is within the menus and doesn't move out to parent page when navigating with Tab key.
- Within Surveys window after adding a question and option.
- In Join information screen, when using Edit, Email, and Copy buttons.
- In 200% zoom when navigating/dismissing the hamburger menu, and spaces on left navigation menu using Tab key.

Accessibility improvements in web app online help:

- Icons and screenshot annotations meet minimum contrast ratio when using high contrast Aquatic theme in Windows.
- Prominent border around search bar.

3.5 Browser versions tested

Table 2 lists the browsers tested for web app at the time of release of a specific version of web app.

We always recommend using the latest version of browsers.

Note: Please note certain browsers such as Google Chrome and Mozilla Firefox automatically update to the latest version. The following table shows the version of browsers tested at the time of the official release of a version of Cisco Meeting Server. This means we have not tested this particular release with previous versions of those browsers.

We endeavor to test the latest maintenance release of each major release of Cisco Meeting Server against the latest public versions of all the browsers to keep them compatible and if we detect any issues we will endeavor to fix them as soon as possible.

Table 2: Cisco Meeting Server web app tested on browsers and versions

Browsers	Versions
Google Chrome (Windows, macOS, and Android)	134.0.6998
Mozilla Firefox (Windows)	137.0
Chromium-based Microsoft Edge (Windows)	134.0.3124
Apple Safari for macOS	18.4
Apple Safari for iOS	18.4

Note: Web app is not supported on the legacy Microsoft Edge.

Note: Web app is not supported on virtual machines (VMs) running these supported browsers.

Important note for users using iOS 13 or later and macOS 10.15 or later

In order for users to be able to use web app on Safari on iOS 13 or later and macOS 10.15 or later, webbridge3 needs to be properly configured to comply with requirements stated here : <https://support.apple.com/en-us/HT210176>.

Users will not be able to open the app on Safari if these requirements are not met.

Important note about screen sharing on Chrome on macOS 10.15 or later

From macOS version 10.15 (Catalina) or later, to share the screen or application from the app running on Chrome, users need to enable permissions. Follow these steps:

1. From the Apple menu, open **System Preferences**.
2. Click on **Security & Privacy**.
3. Click on the **Privacy** tab at the top.
4. In the column on the left hand side, scroll down and click on **Screen Recording**.
5. Make sure Chrome is selected. Restart Chrome.

3.5.1 Important note about accessibility settings in Safari browsers

By default, Safari browsers do not allow navigation of UI elements via the 'Tab' key but via Option + Tab instead. This can be configured in Safari's Preferences as follows:

From your Safari browser menu, go to **Safari > Preferences > Advanced > Accessibility > Press Tab to highlight each item on a web page** to change your preference.

3.5.2 Important note about audio and video issues observed in Safari browsers

CSCwp32445 – In Safari version 18.5 on MacBook systems, users experience intermittent audio issues during screen sharing sessions. When other participants share screens with content audio using a different browser, Safari users initially hear the audio but then lose both the shared content audio and participant audio.

Workaround: The issue is resolved if the user rejoins the meeting. In some cases, it also resolves on its own after a few minutes.

Additionally, video transmission from Safari browsers exhibits persistent lag or buffering.

3.5.3 Important note about group policy settings in Microsoft Edge

If **WebRtcLocalhostIpHandling - Restrict exposure of local IP address by WebRTC** group policy is applied to Microsoft Edge browser, make sure to only use one of the following policy options:

- **AllowAllInterfaces** (default) or
- **AllowPublicAndPrivateInterfaces** (default_public_and_private_interfaces)

Any other option could cause connection issues.

3.6 Product documentation

The end-user guides such as User Guide, and visual 'How to' guides for web app are available in the following location:

<https://www.cisco.com/c/en/us/support/conferencing/cisco-meeting-app/products-user-guide-list.html>

4 Upgrading, downgrading and deploying Cisco Meeting Server software version 3.11.1

This section assumes that you are upgrading from Cisco Meeting Server software version 3.10. If you are upgrading from an earlier version, then you must first upgrade to 3.10 following the instructions in the 3.10 release notes, before following any instructions in this Cisco Meeting Server 3.11.1 Release Notes. This is particularly important if you have a Cisco Expressway connected to Meeting Server.

Note: Cisco has not tested upgrading from a software release earlier than 3.10.

To check which version of Cisco Meeting Server software is installed on a Cisco Meeting Server 2000, Cisco Meeting Server 1000, or previously configured VM deployment, use the MMP command **version**.

If you are configuring a VM for the first time then follow the instructions in the [Cisco Meeting Server Installation Guide for Virtualized Deployments](#).

4.1 Upgrading to Release 3.11.1

The instructions in this section apply to Meeting Server deployments which are not clustered. For deployments with clustered databases read the instructions in this [FAQ](#), before upgrading clustered servers.

CAUTION: Before upgrading or downgrading Meeting Server you must take a configuration backup using the **backup snapshot <filename>** command and save the backup file safely on a different device. See the [MMP Command Reference document](#) for complete details. Do **not** rely on the automatic backup file generated by the upgrade/downgrade process, as it may be inaccessible in the event of a failed upgrade/downgrade.

Note: If you have deployed a clustered database, before upgrading your Meeting Servers, uncluster all the nodes using the **database cluster remove** command. Users must uncluster the nodes, upgrade Meeting Server and cluster the nodes back using the MMP commands. See [Cluster upgrade FAQ](#) for detailed instructions.

Upgrading the firmware is a two-stage process: first, upload the upgraded firmware image; then issue the upgrade command. This restarts the server: the restart process interrupts all active calls running on the server; therefore, this stage should be done at a suitable time so as not to impact users – or users should be warned in advance.

To install the latest firmware on the server follow these steps:

1. Obtain the appropriate upgrade file from the [software download](#) pages of the Cisco website:

Cisco_Meeting_Server_3_11_1_CMS2000.zip

This file requires unzipping to a single upgrade.img file before uploading to the server. Use this file to upgrade Cisco Meeting Server 2000 servers.

Hash (SHA-256) for upgrade.img

file:90bc4bdd1d540ddd0d03038cb70e6753d6879004ba503901579442a96ea80de0

Cisco_Meeting_Server_3_11_1_vm-upgrade.zip

This file requires unzipping to a single upgrade.img file before uploading to the server. Use this file to upgrade a Cisco Meeting Server virtual machine deployment.

Hash (SHA-256) for upgrade.img

file:c14d6ff80def44fb50f480f2abbcc23d24addc8620a3a62623ef7c4848d4f71f

Cisco_Meeting_Server_3_11_1_vSphere-7_0.ova

Use this file to deploy a new virtual machine via VMware.

For vSphere7.0 and higher, hash (SHA-512) for Cisco_Meeting_Server_3_11_vSphere-7_0.ova:

8239fa2110e405c5784692a21c1d5782c8c91e92a432e2290a325f886fc95e78ac332a424124a9b832d28ce9f4c23de2839a284f11de86c67f2c2188995c986a

2. To validate the OVA file, the checksum for the 3.11.1 release is shown in a pop up box that appears when you hover over the description for the download. In addition, you can check the integrity of the download using the SHA-512 hash value listed above.

Note: Version 3.11 of Meeting Server and Meeting Management supports ESXi 7.0 Update 3s and ESXi 8.0 Update 3d.

3. Using an SFTP client, log into the MMP using its IP address. The login credentials will be the ones set for the MMP admin account. If you are using Windows, we recommend using the WinSCP tool.

Note: If you are using WinSCP for the file transfer, ensure that the Transfer Settings option is 'binary' not 'text'. Using the incorrect setting results in the transferred file being slightly smaller than the original and this prevents successful upgrade.

Note:

- a) You can find the IP address of the MMP's interface with the `iface a` MMP command.
 - b) The SFTP server runs on the standard port 22.
-

4. Copy the software to the Server/ virtualized server.
5. To validate the upgrade file, issue the `upgrade list` command.

- a. Establish an SSH connection to the MMP and log in.
 - b. Output the available upgrade images and their checksums by executing the upgrade list command.
upgrade list
 - c. Check that this checksum matches the checksum shown above.
6. To apply the upgrade, use the SSH connection to the MMP from the previous step and initiate the upgrade by executing the **upgrade** command.
- a. Initiate the upgrade by executing the upgrade command.
upgrade <image_name>.img. For example: upgrade upgrade_spa.img
 - b. The Server/ virtualized server restarts automatically: allow 10 minutes for the process to complete.
7. Verify that Meeting Server is running the upgraded image by re-establishing the SSH connection to the MMP and typing:
version
8. Update the customization archive file when available.
9. You have completed the upgrade.

4.2 Downgrading

If anything unexpected occurs during or after the upgrade process you can return to the previous version of the Meeting Server software. Use the regular upgrade procedure to “downgrade” Meeting Server to the required version using the MMP **upgrade** command.

Note: If you are downgrading from version 3.11 with secure storage enabled, the process will be aborted. To proceed, perform a **<factory_reset full>** to clear secure storage settings, then downgrade to the desired version.

1. Copy the software to the Server/ virtualized server.
2. To apply the downgrade, use the SSH connection to the MMP and start the downgrade by executing the **upgrade <filename>** command.

The Server/ virtualized server will restart automatically – allow 10–12 minutes for the process to complete and for the Web Admin to be available after downgrading the server.
3. Log in to the Web Admin and go to **Status > General** and verify the new version is showing under **System status**.
4. Use the MMP command **factory_reset app** on the server and wait for it to reboot from the factory reset.

5. Restore the configuration backup for the older version, using the MMP command **backup rollback <name>** command.

Note: The **backup rollback** command overwrites the existing configuration as well as the cms.lic file and all certificates and private keys on the system, and reboots the Meeting Server. Therefore it should be used with caution. Make sure you copy your existing cms.lic file and certificates beforehand because they will be overwritten during the backup rollback process. The .JSON file will not be overwritten and does not need to be re-uploaded.

The Meeting Server will reboot to apply the backup file.

For a clustered deployment, repeat steps 1–5 for each node in the cluster.

6. Finally, check that:
 - the Web Admin interface on each Call Bridge can display the list of coSpaces.
 - dial plans are intact,
 - no fault conditions are reported on the Web Admin and log files.
 - you can connect using SIP and Cisco Meeting Apps (as well as Web Bridge if that is supported).

The downgrade of your Meeting Server deployment is now complete.

4.3 Cisco Meeting Server Deployments

To simplify explaining how to deploy the Meeting Server, deployments are described in terms of three models:

- single combined Meeting Server – all Meeting Server components (Call Bridge, Web Bridge 3, Database, Recorder, Uploader, Streamer and TURN server) are available, the Call Bridge and Database are automatically enabled but the other components can be individually enabled depending upon the requirements of the deployment. All enabled components reside on a single host server.
- single split Meeting Server – in this model the TURN server, Web Bridge 3, and MeetingApps are enabled on a Meeting Server located at the network edge in the DMZ, while the other components are enabled on another Meeting Server located in the internal (core) network.
- the third model covers deploying multiple Meeting Servers clustered together to provide greater scale and resilience in the deployment.

Deployment guides covering all three models are available [here](#). Each deployment guide is accompanied by a separate Certificate Guidelines document.

4.3.1 Points to note

4.3.1.1 Cisco Meeting Server 2000

The Cisco Meeting Server 2000 only has the Call Bridge, Web Bridge 3, and database components. It is suited for deployment on an internal network, either as a single server or a cascade of multiple servers. The Cisco Meeting Server 2000 should not be deployed in a DMZ network. Instead if a deployment requires firewall traversal support for external Cisco Meeting Server web app users, then you will need to also deploy either:

- a Cisco Expressway-C in the internal network and an Expressway-E in the DMZ, or
- a separate Cisco Meeting Server 1000 or specification-based VM server deployed in the DMZ with the TURN server enabled.

4.3.1.2 Cisco Meeting Server 1000 and specification-based VM server

- The Cisco Meeting Server 1000 and specification-based VM servers have lower call capacities than the Cisco Meeting Server 2000, but all components (Call Bridge, Web Bridge 3, Database, Recorder, Uploader, Streamer and TURN server) are available on each host server. The Web Bridge 3, Recorder, Uploader, Streamer and TURN server require enabling before they are operational.
- When uploading OVA to Vcenter and deploying, the Publisher field should show (Trusted certificate). If you see a warning for an invalid certificate and not-trusted cert when importing the OVA, see this article: <https://kb.vmware.com/s/article/84240>. You may have to add the intermediate and root certificates corresponding to the certificate used to sign the OVA, to the VECS Store. To procure intermediate or root certificates or any other issues, contact [Cisco Technical Support](#).

5 Bug search tool, resolved and open issues

You can now use the Cisco Bug Search Tool to find information on open and resolved issues for the Cisco Meeting Server and web app, 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.

1. Using a web browser, go to the [Bug Search Tool](#).
2. Sign in with a cisco.com registered username and password.

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

1. 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**

or,

in the **Product** field select **Series/Model** and start typing **Cisco Meeting Server**, then in the **Releases** field select **Fixed in these Releases** and type the releases to search for example 3.11.1.

2. From the list of bugs that appears, filter the list using the *Modified Date*, *Status*, *Severity*, *Rating* drop down lists.

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

5.1 Resolved issues in Cisco Meeting Server

Issues seen in previous versions that are fixed in 3.11.1.

Cisco identifier	Summary
CSCwm84135	Media modules in Meeting Server 2000 fail to boot due to loss of communication with the control blade.
CSCwp22989	Meeting Server 1000 is crashing intermittently with the error reason "server-!ServerControlCmgrCall::updateConfiguration(ServerCallConfigurationImplementation const*)" when participants are disconnected from an ongoing meeting.
CSCwp16290	In rare scenarios, Meeting Server crashes when a participant joins a meeting.

Issues seen in previous versions that are fixed in 3.11.

Cisco identifier	Summary
CSCwm78386	Scheduler does not send any notifications or emails, when a single scheduled appointment or occurrence from a recurring meeting series is canceled.
CSCwk58945	When Cisco TelePresence and Skype endpoints join a large video teleconference (with more than 17 attendees) where Meeting Server is used as Gateway to route Skype calls, the subsequent Cisco TelePresence endpoints that join after a Skype user do not display their complete participant list.
CSCwn93144	Meeting Server crashes while applying logo to a space.
CSCwn57879	Meeting Server crashes when users are added to or removed from cospaces with very long names. This is mostly observed when cospaces are created in specific languages such as German, Arabic, Russian, etc..
CSCwk23895	Meeting Server 2000 crashes when large number of non-signed-in participants join/leave a meeting.
CSCwm56132	Active speaker is not updated appropriately on the participant with pane placement per participant setting.
CSCwn19565	Meeting Server 2000 crashes when per participant pane placement is applied in an ongoing conference having more than 25 participants.

5.2 Open issues in Cisco Meeting Server

The following are known issues in this release of the Cisco Meeting Server software. If you require more details enter the Cisco identifier into the Search field of the [Bug Search Tool](#).

Cisco identifier	Summary
CSCvt71069	When 'Video Mute on Entry' and 'Audio Mute on Entry' are enabled in a meeting, SIP participants are unable to unmute their video or audio after joining.
CSCwn27875	The joinToneParticipantThreshold and leaveToneParticipantThreshold parameters accepts values more than the set maximum value of 100.
CSCwh41791	Failed to access webbridge intermittantly, on Meeting Server 2000.
CSCwd89530	If the packet capture is not stopped gracefully using Ctrl+C and the terminal is closed abruptly, further packet captures are not possible until CMS reboot.
CSCwb77929	In a deployment with multiple Web Bridge, web app participants can see the Meeting notes only if they are connected to the same webbridge where the notes was saved and published initially.
CSCwa83782	A conference is booked on TMS as Automatic connect type and one of the participants is joining the conference through an unmanaged device. When the conference starts, the participant is called by CMS/TMS, but Meeting Server disconnects the call after some time.
CSCvz01886	When a participant's role does not have permissions to share video and presentation, then the role is changed and they have permissions to share video and presentation, the presentation is not visible to other participants when they share content.
CSCvt74033	When content is being shared and an event happens to trigger a Webex Room Panorama to drop from sending two video streams to one, the video frame rate being received by a remote endpoint from the Room Panorama can drop noticeably.
CSCvh23039	The Uploader component does not work on tenanted recordings held on the NFS.

5.2.1 Known limitations

- From version 3.1, Cisco Meeting Server supports TURN short-term credentials. This mode of operation can only be used if the TURN server also supports short-term credentials, such as the Meeting Server TURN server in version 3.1 onwards. Using Cisco Meeting Server with Expressway does not support short-term credentials.

5.3 Resolved issues in Cisco Meeting Server web app

The table below lists issues seen in previous versions that are fixed in 3.11.

Cisco Identifier	Summary
CSCwo81117	When trying to add participants in the scheduler, the participant's name and email address are not rendered properly in the Participants list.
CSCwn66634	Some words are incorrectly translated in the German version of the web app UI.
CSCwo81118	The “Meeting information” section is not visible when the web page is zoomed to 100%.
CSCwn32390	In Meeting Server 3.10, participants are unable to share files larger than 1MB.

6.1 Open issues in Cisco Meeting Server web app

Cisco Identifier	Summary
CSCwo81653	In a web app meeting with more than 23 participants, the participant names from the Chat window's To: drop-down list overflow into the message section.
CSCwi05238	Web app briefly shows an error message 'Sign in failed' when participant is logging in.
CSCwh48464	When a web app participant applies virtual background to their video and then refreshes the browser tab, the virtual background appears black on Google Chrome and Mozilla Firefox browsers.
CSCwc76769	In Google Chrome browser, when a participant applies blur to their video and leaves the web app meeting, the camera is still on and does not close.
CSCwa17363	In web app, the participants who are moved to lobby from Meeting Management can see still the list of participants in the meeting even if they are waiting in the lobby.
CSCvz01888	If the role of a member was changed in the space before the meeting, a role change notification appears when the member joins the meeting.
CSCvu98805	<p>Whilst in a meeting from web app on Firefox browser, if you open the presentation received in a second window, occasionally the content becomes non-responsive if the presenter stops and restarts the sharing or if another participant in the meeting starts sharing content at the same time. This is an issue with Firefox browser, for details see https://bugzilla.mozilla.org/show_bug.cgi?id=1652042.</p> <p>Work around: Maximize the second window or alternatively, close the presentation window and reopen it.</p>
CSCvt71069	If the video layout 'speaker large' is selected, window does not re size correctly.

Appendix A: Meeting Server platform maintenance

It is important that the platform that the Cisco Meeting Server software runs on is maintained and patched with the latest updates.

Cisco Meeting Server 1000 and other virtualized platforms

The Cisco Meeting Server software runs as a virtualized deployment on the following platforms:

- Cisco Meeting Server 1000
- specification-based VM platforms.

Cisco Meeting Server 2000

The Cisco Meeting Server 2000 is based on Cisco UCS technology running Cisco Meeting Server software as a physical deployment, not as a virtualized deployment.

CAUTION: Ensure the platform (UCS chassis and modules managed by UCS Manager) is up to date with the latest patches, follow the instructions in the [Cisco UCS Manager Firmware Management Guide](#). Failure to maintain the platform may compromise the security of your Cisco Meeting Server.

Call capacities

The following table provides a comparison of the call capacities across the platforms hosting Cisco Meeting Server software.

Table 3: Call capacities across Meeting Server platforms

Type of calls	Cisco Meeting Server 1000 M5v2	Cisco Meeting Server 1000 M6	Cisco Meeting Server 2000 M5v2	Cisco Meeting Server 2000 M6
Full HD calls 1080p60 video 720p30 content	30	40	218	324
Full HD calls 1080p30 video 1080p30/4K7 content	30	40	218	324

Type of calls	Cisco Meeting Server 1000 M5v2	Cisco Meeting Server 1000 M6	Cisco Meeting Server 2000 M5v2	Cisco Meeting Server 2000 M6
Full HD calls 1080p30 video 720p30 content	60	80	437	648
HD calls 720p30 video 720p5 content	120	160	875	1296
SD calls 480p30 video 720p5 content	240	320	1250	1875
Audio calls (G.711)	2200	3000	3000	3200

The following table provides the call capacities for a single or cluster of Meeting Servers compared to load balancing calls within a Call Bridge Group.

Table 4: Meeting Server call capacity for clusters and Call Bridge groups

Cisco Meeting Server platform		Cisco Meeting Server 1000 M5v2	Cisco Meeting Server 1000 M6	Cisco Meeting Server 2000 M5v2	Cisco Meeting Server 2000 M6
Individual Meeting Servers or Meeting Servers in a cluster (notes 1, 2, 3, and 4) and Meeting Servers in a Call Bridge Group	1080p30	60	80	437	648
	720p30	120	160	875	1296
	SD	240	320	1250	1875
	Audio calls	2200	3000	3000	3200
	HD participants per conference per server	120		450	
	web app call capacities (internal calling & external calling on CMS web edge):				
	Full HD	60	80	437	648
	HD	120	160	875	1296
	SD	240	320	1250	1875
	Audio calls	500	500	1250	1875
Meeting Servers in a Call Bridge Group	Call type supported				
	Load limit	120,000	160,000	875,000	1,296,000

Note 1: Maximum of 24 Call Bridge nodes per cluster; cluster designs of 8 or more callbridge nodes need to be approved by Cisco, contact Cisco Support for more information.

Note 2: Clustered Cisco Meeting Server 2000's without Call Bridge Groups configured, support integer multiples of maximum calls, for example integer multiples of 700 HD calls.

Note 3: Up to 21,000 HD concurrent calls per cluster (24 nodes x 875 HD calls) applies to SIP or web app calls.

Note 4: A maximum of 2600 participants per conference per cluster depending on the Meeting Servers platforms within the cluster.

Note 5: Table 4 assumes call rates up to 2.5 Mbps-720p5 content for video calls and G.711 for audio calls. Other codecs and higher content resolution/framerate will reduce capacity. When meetings span multiple call bridges, distribution links are automatically created and also count against a server's call count and capacity. Load limit numbers are for H.264 only.

Note 6: The call setup rate supported for the cluster is up to 40 calls per second for SIP calls and 20 calls per second for Cisco Meeting Server web app calls.

Cisco Meeting Server web app call capacities

This section details call capacities for deployments using Web Bridge 3 and web app for external and mixed calling. (For internal calling capacities, see Table 4.)

Cisco Meeting Server web app call capacities – external calling

Expressway (Large OVA or CE1200) is the recommended solution for deployments with medium web app scale requirements (i.e. 800 calls or less). Expressway (Medium OVA) is the recommended solution for deployments with small web app scale requirements (i.e. 200 calls or less). However, for deployments that need larger web app scale, from version 3.1 we recommend Cisco Meeting Server web edge as the required solution.

For more information on using Cisco Meeting Server web edge solution, see [Cisco Meeting Server Deployment Guides](#).

External calling is when clients use Cisco Meeting Server web edge, or Cisco Expressway as a reverse proxy and TURN server to reach the Web Bridge 3 and Call Bridge.

When using Expressway to proxy web app calls, the Expressway will impose maximum calls restrictions to your calls as shown in the table below.

Note: If you are deploying Web Bridge 3 and web app you must use Expressway version X14.3 or later, earlier Expressway versions are not supported by Web Bridge 3.

Table 5: Cisco Meeting Server web app call capacities – using Expressway for external calling

Setup	Call Type	CE1200 Platform	Large OVA Expressway	Medium OVA Expressway
Per Cisco Expressway (X14.3 or later)	Full HD	150	150	50
	Other	200	200	50

The Expressway capacity can be increased by clustering the Expressway pairs. Expressway pairs clustering is possible up to 6 nodes (where 4 are used for scaling and 2 for redundancy), resulting in a total call capacity of four times the single pair capacity.

Note: The call setup rate for the Expressway cluster should not exceed 6 calls per second for Cisco Meeting Server web app calls.

Cisco Meeting Server web app capacities – mixed (internal + external) calling

Both standalone and clustered deployments can support combined internal and external call usage. When supporting a mix of internal and external participants the total web app capacity will follow Table 4 for Internal Calls and if using Cisco Meeting Server web edge solution for external calling. However, if using Expressway at the edge, the number of participants within the total that can connect from external is still bound by the limits in Table 5.

For example, a single standalone Meeting Server 2000 with a single Large OVA Expressway pair supports a mix of 1000 audio-only web app calls but the number of participants that are external is limited to a maximum of 200 of the 1000 total.

Note: You cannot move a call to an external endpoint or move the audio to a regular phone during a call.

Appendix B: Apps feature comparison

Table 6: Feature comparison for Cisco Meeting Server web app

Feature	Web app 3.11	Web app 3.10	Web app 3.9	Web app 3.8
General				
Cisco Meeting Server version	3.11	3.10	3.9	3.8
Managing access for members	Yes	Yes	Yes	Yes
User-level permissions (e.g. can create space)	Yes	Yes	Yes	Yes
Support for localization	Yes	Yes	Yes	Yes
Branding	Yes	Yes	Yes	Yes
Online help	Yes	Yes	Yes	Yes
Encryption	Yes	Yes	Yes	Yes
Single sign on	Yes	Yes	Yes	Yes
Arabic language support	Yes	Yes	Yes	Yes
Czech language support	Yes	Yes	Yes	Yes
Support for custom pages in online help	Yes	No	No	No
Join using video address (URI)	Yes	Yes	Yes	Yes
Notifications				
Audio notification when participant joins/leaves	Yes	Yes	No	No
Connection resiliency (Auto reconnect in bad network)	Yes	Yes	Yes	No
Schedule a meeting				
View list of scheduled meeting	Yes	Yes	Yes	Yes
Schedule a meeting	Yes	Yes	Yes	Yes
Modify a scheduled meeting	Yes	Yes	Yes	Yes

Feature	Web app 3.11	Web app 3.10	Web app 3.9	Web app 3.8
Delete a scheduled meeting	Yes	Yes	Yes	Yes
Space Management				
Space member roles	Yes	Yes	Yes	Yes
Restrict access of non-members to space	Yes	Yes	No	No
Create / edit space	Yes	Yes	Yes	Yes
Activate newly provisioned spaces	Yes	Yes	Yes	Yes
Add / edit / delete space members	Yes	Yes	Yes	Yes
Directory look up for Add Members feature	Yes	Yes	Yes	Yes
View information for space	Yes	Yes	Yes	Yes
Send invitation	Yes	Yes	Yes	Yes
Audio and video				
Audio	OPUS	OPUS	OPUS	OPUS
Video	H.264, VP8	H.264, VP8	H.264, VP8	H.264, VP8
Mic/camera configuration controls	Yes	Yes	Yes	Yes
Speaker configuration controls	Yes	Yes	Yes	No
Blur your background	Yes	Yes	Yes	Yes
Virtual background	Yes	Yes	Yes	Yes
Far end camera control	Yes	Yes	Yes	Yes
Auto prioritization of audio and video	Yes	Yes	Yes	Yes
Screen share				
Content magnification	Yes	Yes	Yes	Yes
Reset content zoom	Yes	Yes	Yes	Yes
View screen share	Yes	Yes	Yes	Yes
Desktop sharing	Yes	Yes	Yes	Yes

Feature	Web app 3.11	Web app 3.10	Web app 3.9	Web app 3.8
Application sharing	Yes	Yes	Yes	Yes
View screen share in a new window	Yes	Yes	Yes	Yes
Re-size the video pane	Yes	Yes	Yes	Yes
Share content audio	Yes	Yes	Yes	Yes
Optimize for Text (Share screen in 1080p)	Yes	Yes	Yes	Yes
Chat				
Chat (Broadcast to all participants in the meeting)	Yes, in meeting only	Yes, in meeting only	Yes, in meeting only	Yes, in meeting only
Chat (Private)	Yes, in meeting only	Yes, in meeting only	Yes, in meeting only	Yes, in meeting only
In-call				
On-screen messages	Yes	Yes	Yes	Yes
Full-screen view	Yes	Yes	Yes	Yes
Layout control	Yes	Yes	Yes	Yes
Name labels	Yes	Yes	Yes	Yes
Recording	Yes	Yes	Yes	Yes
Streaming	Yes	Yes	Yes	Yes
Active speaker label (Beta support)	Yes	Yes	Yes	Yes
Self-view	Yes	Yes	Yes	Yes
Pin self-view	Yes	Yes	Yes	Yes
Mirror self-view	Yes	Yes	Yes	Yes
Move self-view	Yes	Yes	Yes	Yes
HD/SD selection	Yes	Yes	Yes	Yes
Pin presentation preview	Yes	Yes	Yes	Yes
Move presentation pre-view	Yes	Yes	Yes	Yes
Meeting notes	Yes	Yes	Yes	Yes
Closed captioning	Yes	Yes	Yes	Yes

Feature	Web app 3.11	Web app 3.10	Web app 3.9	Web app 3.8
Share files	Yes	Yes	Yes	Yes
Network health indicator and media statistics	Yes	Yes	Yes	Yes
Content share metrics	Yes	Yes	Yes	Yes
Logo support	Yes	Yes	Yes	Yes
Surveys	Yes	Yes	Yes	Yes
Participants				
Increased character limit for participant names	Yes	No	No	No
User identification in Participants list	Yes	No	No	No
Move participant	Yes	Yes	Yes	Yes
Add participant	Yes (SIP only)	Yes (SIP only)	Yes (SIP only)	Yes (SIP only)
Remove participants	Yes	Yes	Yes	Yes
Admit participants to a locked meeting	Yes	Yes	Yes	Yes
Change a participant's role	Yes	Yes	Yes	Yes
Make participant important	Yes	Yes	Yes	Yes
Mute/Unmute other participants' audio and video individually	Yes	Yes	Yes	Yes
Mute/Unmute all participants' audio and video	Yes	Yes	Yes	Yes
Send diagnostics during a meeting	Yes	Yes	Yes	Yes
Send invite	Yes	Yes	Yes	Yes
View call info	Yes	Yes	Yes	Yes
Mic / Camera controls during call	Yes	Yes	Yes	Yes
Raise hand	Yes	Yes	Yes	Yes
Move call				

Feature	Web app 3.11	Web app 3.10	Web app 3.9	Web app 3.8
Use this device for screen share and call management only (while another device is used for audio and video)	Yes	Yes	Yes	Yes

Accessibility Notice

Cisco is committed to designing and delivering accessible products and technologies.

The Voluntary Product Accessibility Template (VPAT) for Cisco Meeting Server is available here:

http://www.cisco.com/web/about/responsibility/accessibility/legal_regulatory/vpats.html#telepresence

You can find more information about accessibility here:

www.cisco.com/web/about/responsibility/accessibility/index.html

Accessibility Support Features

Keyboard navigation

You can use your keyboard to navigate through web app.

- Use **Tab** to navigate between areas in web app. You'll know an area is in focus when it's surrounded by an outline.
Use **Shift + Tab** to move to the previously focused area.
- Use the **Spacebar** or **Enter** key to select items.
- Use arrow keys to scroll through lists or drop-down menus.
- Use **Esc** to close or dismiss opened screens/menus.

Screen reader support

You can use the JAWS screen reader version 18 or later.

The screen reader announces focused areas/buttons, relevant information like notifications, warnings, status messages appearing on the screen, and the actions you can perform.

For example: When you focus on **Add participant** area in a web app meeting, the screen reader will announce "Add participant" and to enter a participant's SIP address.

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