



Cisco Meeting Management

Cisco Meeting Management 3.2

User Guide for Video Operators

April 07, 2021

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Document Revision History

Table 1: Document revision history

Date	Description
2021-04-07	Document published.

1 Introduction

This guide is for video operators of Cisco Meeting Management, providing instructions on how to monitor and manage meetings.

Cisco Meeting Management is a management tool for Cisco's on-premises video conferencing platform, Cisco Meeting Server. It provides a user-friendly browser interface for you to monitor and manage meetings that are running on the Meeting Server.

2 What is new in Meeting Management 3.2

This is an overview of new features and changes that are relevant for video operators. For an overview of all new features and changes, see the release notes.

2.1 Moving web app users

In previous releases, you could not move participants who were using web app. In this release, the restriction is removed and Move Participants works on web app users.

2.2 Notification for unexpected restart

If Meeting Management restarts unexpectedly due to various reasons such as power outage or a crash, a new notification is introduced to inform the user.

2.3 Changes to this guide since 3.1

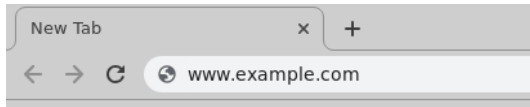
We have edited the following section:

- [Move participants](#): We have updated the section to remove the restriction about moving participants who are using web app.
- [List of notifications](#): We have added the new notification to the list of notifications.

3 Sign in

To access Meeting Management:

1. Open a browser and enter the web address for your Meeting Management.

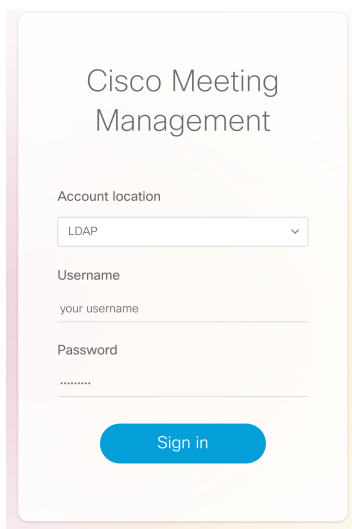


If you don't know the address, ask your Meeting Management administrator.

2. Choose **Account location**.

If you do not know your account location, ask your Meeting Management administrator.

3. Sign in with your company username and password.

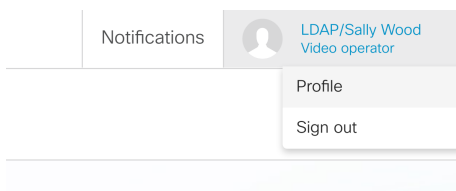
A screenshot of the Cisco Meeting Management sign-in page. The page has a light yellow background. At the top, it says 'Cisco Meeting Management'. Below that is a dropdown menu labeled 'Account location' with 'LDAP' selected. Underneath are two text input fields: 'Username' with the placeholder 'your username' and 'Password' with a masked password '.....'. At the bottom is a blue 'Sign in' button.

If you have trouble signing in, ask your Meeting Management administrator to check your account details.

Note: You can stay signed in for a maximum of 24 hours, after which you will automatically be signed out. If someone restarts Meeting Management, or if you are inactive for longer than your administrator has allowed, you will be signed out. Depending on your browser, you might also be signed out if you close your browser.

To sign out:

1. Click your name, then **Sign out**.



4 Navigation

Here is a quick walk-through of the different views in Meeting Management:

- [Overview page](#)
- [Top bar](#)
- [Navigation panel](#)
- [Meetings page](#)
- [Meeting details for unscheduled meetings](#)
- [Meeting details for scheduled meetings](#)
- [Participant details](#)

4.1 Overview page

The first thing you see when you sign in is the **Overview** page.

If there are any issues with the overall system, [notifications](#) will be displayed here.

Notifications have 3 levels of severity:

- **Error:** Critical issue
- **Warning:** Issue that you must act on to keep Meeting Management running
- **Information:** Useful information or minor issue

If licensing is enabled on the instance of Meeting Management you are signed in to, you will also see [license status](#) for the Cisco Meeting Servers.

If you are using Smart Licensing, then all connected clusters share the licenses in one account, and Meeting Management shows one license status for all clusters.

The screenshot shows the Cisco Meeting Management Overview page. The top navigation bar includes the Cisco logo, "Cisco Meeting Management", a "Notifications" button with a red indicator, and the user profile "LDAP/Lewis Hill Video operator". The left sidebar contains "Overview" (selected), "Meetings", and "Help". The main content area is titled "Overview" and contains two panels:

- Notifications:** A list of three notifications:
 - Error:** 28/10/2020 15:34:19 - The credentials provided for server Server 1 are incorrect.
 - Warning:** 28/10/2020 15:34:19 - Events communications with server Server 2 have been disrupted.
 - Information:** 28/10/2020 15:34:19 - The server Server 3 is attempting to synchronize so meeting and participant details may be incomplete.
 A link "See notifications (3)" is at the bottom.
- License status:** A section titled "Smart Licensing" showing the status for three categories:
 - Meetings: In compliance (green)
 - Recording or Streaming: In compliance (green)
 - Customization: Unlicensed (grey)

If Meeting Management is using traditional licensing, you will see an individual license status for each cluster.

The screenshot shows the Cisco Meeting Management Overview page with individual license status for four clusters. The top navigation bar and left sidebar are identical to the previous screenshot. The main content area is titled "Overview" and contains two panels:

- Notifications:** Identical to the previous screenshot, showing three notifications and a "See notifications (3)" link.
- License status:** A section titled "Smart Licensing" showing the status for four clusters:
 - Cluster 1:**
 - Meetings: In compliance (green)
 - Recording or Streaming: In compliance (green)
 - Customization: Unlicensed (grey)
 - Cluster 2:**
 - Meetings: Insufficient licenses (orange)
 - Recording or Streaming: In compliance (green)
 - Customization: Unlicensed (grey)
 - Cluster 3:**
 - Meetings: In compliance (green)
 - Recording or Streaming: Out of compliance (red)
 - Customization: Licensed (green)
 - Cluster 4:**
 - Meetings: Out of compliance (red)
 - Recording or Streaming: Insufficient licenses (orange)
 - Customization: Licensed (green)

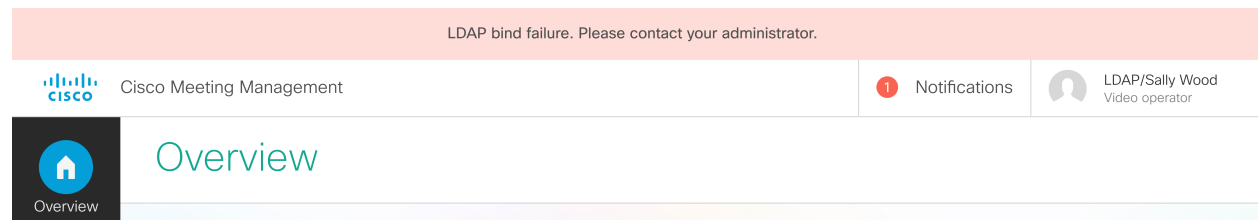
4.2 Top bar

The top bar is visible in all views.



The top bar shows your name and role. If there are any notifications, the number of notifications is displayed here. To see all notifications, click **Notifications**. To sign out, click your name, then **Sign out**.

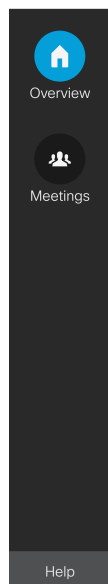
For severe or urgent issues, an additional notification banner displays above the top bar.



4.3 Navigation panel

The navigation panel to the left is visible in all views and gives you access to the **Overview** and **Meetings** pages and a link to the Meeting Management help on the Cisco website.

The number at the bottom is a software version number and is only relevant for your administrator.



4.4 Meetings page

The **Meetings** page displays a list of all active meetings and all upcoming meetings that are scheduled to start within the next 24 hours. The **Ended** filter will let you see meetings that ended within the last 7 days.

Cisco Meeting Management Notifications

Meetings

Q Search in

Type: Status: [Clear filters](#)

Showing 6 of 6 meetings [Sync scheduled meetings](#)

Meeting title	Owner	Participants	Activity	Start time	End time	Duration
Weekly Team Update	Sandra Ty	5		23/10/2020 21:09		01:01:36
Marketing review		2		23/10/2020 21:38		00:32:43
Weekly team update		3		23/10/2020 21:47		00:23:52
Sales EMEAR		3		23/10/2020 21:56		00:15:01
Q4 review		3		23/10/2020 22:06		00:05:25
Product Roundup	Lewis Hill			24/10/2020 20:00	24/10/2020 20:30	

The table below explains what you see in the columns.

Meeting title	Name of space where the meeting takes place. If the space has no name, then the meeting will be listed as "Unnamed meeting", and a unique alphanumeric ID will be displayed in brackets.
Owner	If the meeting takes place in a space that has an owner, this field will display the owner's name or unique user ID. If you are using TMS for scheduling meetings, then the meeting owner can be defined in TMS when you book the meeting.
Participants	Number of connected participants in the meeting. From Meeting Management version 2.8, this number no longer includes lobby participants. If any participants are waiting in the lobby, then there will be a participant icon next to the number. You can click it to see how many participants are in the lobby.
Activity	This field indicates if the meeting is currently being streamed or recorded.
Start time	The time when the first participant joined, or when TMS started the meeting. Alternatively, if the start time is grayed out, it is the scheduled start time.
End time	The time the meeting ended, or - if grayed out - the scheduled end time. If you are using TMS to schedule meetings, and a meeting ends before scheduled time, TMS may try to restart the meeting. If this happens, the end time will be different from the time the participants decided to end the meeting.
Duration	Elapsed time for the meeting.

Note: If Meeting Management is restarted at a time when a scheduled meeting is active past the scheduled end time, then it will be displayed as an unscheduled meeting.

Note: If you are using TMS to schedule meetings, and TMS is not connected to Meeting Management, all meetings appear as unscheduled, and the start and end time in Meeting Management may differ from the scheduled time you see in TMS.

See also:

[Find meetings](#)

4.5 Meeting details – unscheduled meeting

When you click on a meeting title on the **Meetings** page, you will see the details for that meeting.

The screenshot shows the Cisco Meeting Management interface for a meeting titled "Weekly Team Update". The interface includes a sidebar with "Overview" and "Meetings" options. The main content area displays meeting details: Owner (Brian Novak), Start time (23/10/2020 21:41), End time (00:30:37), and Lobby (Empty). A toolbar contains various call control icons such as "Pane placement", "Move participants", "Add participants", "Set layout for all", "Mute all", "Unmute all", "Clear all importance", "Recording", "Streaming", "Mute on entry", "Lock", "Event logs", and "End meeting". Below the toolbar is a search bar and a status filter section with buttons for "Important", "Speaking", "Status", "Connected", "Moved", and "Disconnected". A table shows 5 participants with columns for checkboxes, status, name, join time, leave time, and actions.

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Participant name	Join time	Leave time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	James Reeves	23/10/2020 21:51		[Icons]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Allie Dawson	23/10/2020 21:46		[Icons]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Brian Novak	23/10/2020 21:42		[Icons]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ben Dawkins	23/10/2020 21:42		[Icons]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	John Smith	23/10/2020 21:42		[Icons]

The table below explains what you see in the columns.

Participant name	Name of the participant. <i>Meeting rooms with video systems can also appear in the list as participants.</i>
Join time	The time when the participant joined the meeting.
Leave time	The time when the participant left the meeting.
Actions	Call controls that let you control audio/video, call, or drop the participant. If supported in the meeting, you can also make the participant important or clear importance.

Note: Some features are disabled if the meeting is dual homed.

4.6 Meeting details – scheduled meeting

Meeting details page for scheduled meetings has no **End meeting** button. However, it has an **Edit in TMS** button which takes you to the meeting's editing page in TMS.

Note: The **Edit in TMS** button works as a hyperlink. If you right-click the button, you can choose to open in a new tab, copy link to paste in a different browser, etc.

Overview

Meetings

Owner: Brian Novak
 Start time: 23/10/2020 21:41 [23/10/2020 21:41]
 End time: [23/10/2020 22:41]
 Duration: 00:33:40
 Checklist: Scheduled participants (4)
 Lobby: Empty

Tools: Pane placement, Move participants, Add participants, Set layout for all, Mute all, Unmute all, Clear all importance, Recording, Streaming, Mute on entry, Lock, Event logs, Edit in TMS

Search:

Activity: Important, Speaking, Status: Connected, Moved, Disconnected

Showing 5 of 5 participants

<input type="checkbox"/>	1	Participant name	Join time	Leave time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	James Reeves	23/10/2020 21:51		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Allie Dawson	23/10/2020 21:46		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Brian Novak	23/10/2020 21:42		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ben Dawkins	23/10/2020 21:42		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	John Smith	23/10/2020 21:42		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Also, you can see scheduled participants for any upcoming or active scheduled meetings. Click the **Scheduled participants** link to see the full list.

You can use the check boxes to manually track which participants have joined the meeting. You are the only one who can see your check marks, and they are only saved for as long as you stay signed in.

Overview

Meetings

Owner: Brian Novak
 Start time: 23/10/2020 21:41 [23/10/2020 21:41]
 End time: [23/10/2020 22:41]
 Duration: 00:33:44
 Checklist: Scheduled participants (4)
 Lobby: Empty

Scheduled participants (4)

- Brian Novak DX80
- Meeting Room A
- John Smith (home)
- Auditorium South

Tools: Pane placement, Move participants, Add participants, Set layout for all, Mute all, Unmute all, Clear all importance, Recording, Streaming, Mute on entry, Lock, Event logs, Edit in TMS

Search:

Activity: Important, Speaking, Status: Connected, Moved, Disconnected

Showing 5 of 5 participants

<input type="checkbox"/>	1	Participant name	Join time	Leave time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	James Reeves	23/10/2020 21:51		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Allie Dawson	23/10/2020 21:46		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Brian Novak	23/10/2020 21:42		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ben Dawkins	23/10/2020 21:42		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	John Smith	23/10/2020 21:42		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Note: The participant names in the checklist appear as they were scheduled in TMS, and the list is not updated to align with the participant names that are received from the Meeting Server when the meeting is active.

For instance, the same participant can be registered with a different name on TMS than the one registered on the Meeting Server, or participants can choose to join the meeting from a different video endpoint than scheduled.

4.7 Participant details

When you select a participant in the meeting details, a side panel with call information and individual call controls will open. Scroll down to see call statistics.

The screenshot shows the Cisco Meeting Management interface for a meeting titled "Department Update". The main window displays a list of participants with columns for checkboxes, status, name, and join time. A side panel for George Cavendish shows call statistics for audio and video, including protocol, channel rate, packet loss, jitter, and RTT.

Participant name	Join time
Allie Dawson	23/10/20
John Hanson	23/10/20
Sally Wood	23/10/20
George Cavendish	23/10/20

Category	To participant	From participant
Audio		
Protocol	opus	opus
Channel rate	63 kbps	67 kbps
Current packet loss	0 %	0 %
Jitter	0 ms	2 ms
RTT	0 ms	-
Video		
Protocol	h264	h264
Resolution	1920x1080	1920x1080
Frame rate	24.1 fps	23.5 fps
Channel rate	3766 kbps	3435 kbps
Current packet loss	0 %	0 %
Jitter	0 ms	8 ms
RTT	-	0 ms
Presentation		
	To participant	From participant

The table below explains what you see in the columns at the top.

Join time	The time this participant joined the meeting. If the participant has been disconnected and then joined again, then this will be the time for when the participant rejoined.
Encryption	Full: All connections are encrypted. Mixed: Some connections are encrypted. None: No connections are encrypted.
Call type	SIP: The participant is using a video system that uses SIP or TIP protocol. web app: The participant is using the web app. Lync: The participant is using Lync or Skype for Business.
CMS	The Call Bridge that hosts the call for this participant
Direction	Direction that the call was made, from the perspective of the Meeting Server

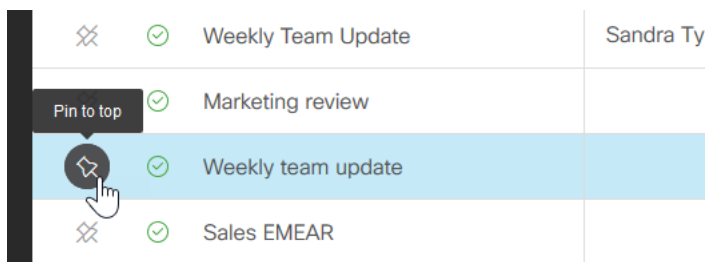
5 Monitor and manage meetings

As a video operator, you can monitor and manage meetings that run on the Cisco Meeting Server.

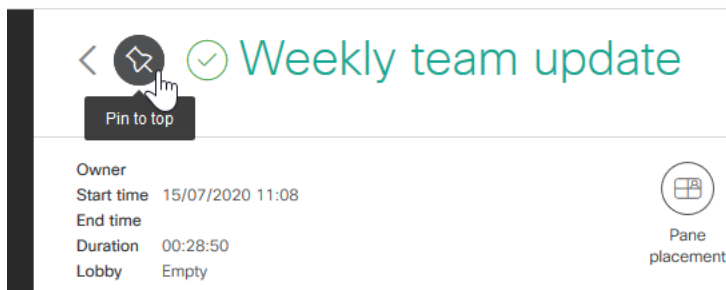
5.1 Find meetings

If you are monitoring many meetings, here are a few hints to help you find the relevant meetings:

- Pin meetings at the top of the list, from the list view, or from the meeting details of the meeting you want to pin.



Cisco Meeting Management



Pinned meetings stay at the top until you unpin them, or until you sign out.

- Filter to see scheduled or unscheduled meetings, or filter to see meetings with a specific status.

Type Status

Showing 6 of 6 meetings [Sync scheduled meetings](#)

*By default, the filters for **Active** and **Upcoming** meetings are selected when you enter the **Meetings** page.*

- **Sync scheduled meetings** if you are looking for a meeting that was scheduled less than 5 minutes ago. Meeting Management automatically synchronizes with TMS every 5 minutes, but you can start the synchronization manually if you want to find a specific meeting that has just been scheduled.

Note: You will see a message when the synchronization starts, but Meeting Management does not let you know when it is finished, and it does not highlight which meetings were added to your view in Meeting Management.

- Sort by column, ascending or descending.

Showing 6 of 6 meetings [Sync scheduled meetings](#)

Meeting title	Owner	Participants	Activity	Start time	End time	Duration
Product Roundup	Lewis Hill			16/07/2020 09:00	16/07/2020 09:30	
Weekly Team Update	Sandra Ty	5		15/07/2020 10:31		01:02:46

- **Sort by multiple columns**, ascending or descending.

Sort by one column, then hold shift down to refine the sorting by clicking another column. For example, you can click the **Meeting title** column, then hold shift down and click the **Participants** column. Then all meetings will be sorted alphabetically by meeting title, and meetings with the same title will be sorted by the number of participants in the meeting.

In the screenshot below, you can see that meetings are sorted by meeting title, Z → A, and then further sorted by number of participants, lowest → highest.

Meeting title	Owner	Participants	Activity	Start time	End time	Duration
Weekly team update		3		23/10/2020 21:47		00:24:02
Weekly Team Update	Sandra Ty	5		23/10/2020 21:09		01:01:46
Sales EMEAR		3		23/10/2020 21:56		00:15:11
Q4 review		3		23/10/2020 22:06		00:05:35
Product Roundup	Lewis Hill			24/10/2020 20:00	24/10/2020 20:30	
Marketing review		2		23/10/2020 21:38		00:32:53

*The meetings stay sorted as selected until you leave this view. By default, meetings are sorted by start time, ascending, when you enter the **Meetings** page.*

- Search for meetings with a specific title or owner, participant, or TMS conference ID.


All search results are listed by meeting title. As you start typing, Meeting Management will list meetings that contain items that match the search criteria, but it does not display participant name or TMS conference ID.

You can see the TMS conference ID when you hover over a meeting title. To see the participant you searched for, you must open the meeting details to check.

in Select...

Type Scheduled Unscheduled Status Active Ended

Showing 5 of 6 meetings

meeting title or owner
participant name 
TMS conference ID

5.2 Edit upcoming meetings

All upcoming meetings that have been scheduled via TMS are displayed in Meeting Management up to 24 hours before they start. If you need to make changes to the scheduled meeting, click **Edit in TMS** to access the meeting in TMS and edit the details there.

5.3 Find participants

If you are monitoring a large meeting, here are a few hints to how you can find an individual participant:

- **Pin participants** at the top of the list.
Pinned participants stay at the top until you unpin them, or until you sign out.
- **Filter** to see participants who are made important, who are speaking, or who have a specific connection status.

Activity Important Speaking Status Connected Moved Disconnected [Clear filters](#)

Note: If pane placement is on, then the **Important** filter is replaced with a **Placed in pane** filter.

- **Check the Lobby in the top left corner** if you are looking for a participant who has a guest profile. Guests who have not yet been let into the meeting will appear here.

Cisco Meeting Management

< ✖ ✓ Weekly Team Update

Owner Brian Novak
 Start time 15/07/2020 10:38
 End time
 Duration 00:44:17
 Lobby 5 waiting to join

Pane placement Move participants

Q Search

- **Sort by column**, ascending or descending.
- **Sort by multiple columns**, ascending or descending.

Sort by one column, then hold shift down to refine the sorting by clicking another column. For example, you can click the **Join time** column, then hold shift down and click the **Participant name** column. Then all participants will be sorted by join time, and all participants who joined at the same time will be sorted alphabetically.

In the screenshot below, you can see that participants are sorted by join time, and then further sorted by name, A → Z.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Participant name	<input type="checkbox"/>	Join time	<input type="checkbox"/>	Leave time	<input type="checkbox"/>	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	James Reeves	...	23/10/2020 21:51				0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Allie Dawson	...	23/10/2020 21:46				0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ben Dawkins	...	23/10/2020 21:42				0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Brian Novak	...	23/10/2020 21:42				0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	John Smith	...	23/10/2020 21:42				0

The participants stay sorted as selected until you leave this view. By default, participants are sorted primarily by connection status (connected participants at the top), secondarily by the time they joined the meeting (participants who joined last at the top).

- **Search** for participants.

Note: Only participants who have been connected to the meeting are displayed. You will not see space members or invited participants who did not join.

If you are looking for a specific participant but do not know which meeting the person joined, you can search in all meetings listed on the **Meetings** page.

5.4 Place participants in specific panes

In an active meeting, you can place connected participants in specific panes so they are always seen in a specific location of the screen, even when they are not speaking.

Similar to importance, pane placement is useful if there are people in the meeting who you want to be visible at all times, for example hosts, a CEO, or invited speakers. Use importance if you want those people to change position, depending on who is speaking. Use pane placement if you want them to be placed in fixed positions on the screen.

You can control what participants will see if they are all SIP participants using single screen endpoints, and if all panes in the selected layout are either reserved for pane placement or occupied by active participants. For all other scenarios there are [limitations](#).

5.4.1 Limitations

There are some general limitations:

- **Pane placement works only for SIP calls.** You can only assign panes to SIP participants, and only SIP participants see the layout and pane placement you have configured.

Meeting Management cannot control the layouts for Skype for Business and the web app, so pane placement will not work for Skype for Business or web app participants.

- **Pane placement can only be set after the meeting has started,** and only active participants can be assigned to panes. If placed participants are disconnected from the meeting, their pane is no longer assigned to them.

This means that the pane that was assigned to them will be displayed as a blank pane. If you want placed participants to be placed in the same pane after they reconnect, you must add them again.

- **Pane placement cannot be set for individual participants.** When you set pane placement, this affects what all SIP participants in the meeting will see.

You cannot choose a pane placement setting that only affects what an individual participant will see.

- **The selected layout is applied only for all participants who are currently active in the meeting,** not for participants who join later. Also, individual participants can change their layout later if they have the required permissions.

Participants who have chosen different layout will see the placed participants in other positions on the screen than the ones you defined.

*To apply the same layout for new participants, click the **Pane placement** button and then save without making changes.*

- **Importance is disabled when pane placement is turned on.** When you set pane placement, Meeting Management clears all importance.

- **Pane placement does not work for gateway calls or dual homed calls.** The **Pane placement** button is disabled during dual homed meetings, but you will see no warnings for gateway calls.
- **If the meeting is hosted on several Call Bridges, then some participants see blank panes instead of the video for placed participants.** If participants are hosted on different Call Bridges, then up to 4 of the placed participants who are hosted on one Call Bridge will be visible to participants who are hosted on another Call Bridge. The remaining placed participants' video will be replaced by blank panes.

To know if participants are hosted on different Call Bridges, see the if they have different CMS listed in their participant details.

- **Meeting Management does not support pane numbers out of range or more than one participant per pane.**

If pane placement is set using the Meeting Server API (application programming interface) or a third party tool, there may be settings that are not supported by Meeting Management, such as:

- *Pane numbers for any participants are outside the range defined by the number of reserved panes.*
- *More than one participant have been assigned to the same pane.*

The following warning will be displayed:

"Pane placement was set using a tool that is not supported with Meeting Management"

*This means that Meeting Management cannot display these settings. If you click **Set pane placement**, then Meeting Management will overwrite the settings with the ones you see displayed in the dialog.*

- **Meeting Management cannot always determine the selected meeting layout.**

Information about layout settings is only saved temporarily, so Meeting Management cannot always determine which layout is in use for pane placement. If that happens, you will see the following warning:

"Your meeting layout cannot be determined. Please select a layout to see a preview".

- **Meeting Management cannot turn pane placement off if it was set for the space.**

If pane placement was set using the Meeting Server API (application programming interface), it may be set for the space rather than for the active meeting.

*If pane placement is turned on for a space, and you try to turn it off, then Meeting Management will let you click **Turn pane placement off**, but the changes will not be applied. You will see no warnings, but if you click the **Pane placement** button again, you will see that pane placement is still on.*

5.4.2 How to set pane placement

To place participants in panes:

1. Click the **Pane placement** button.



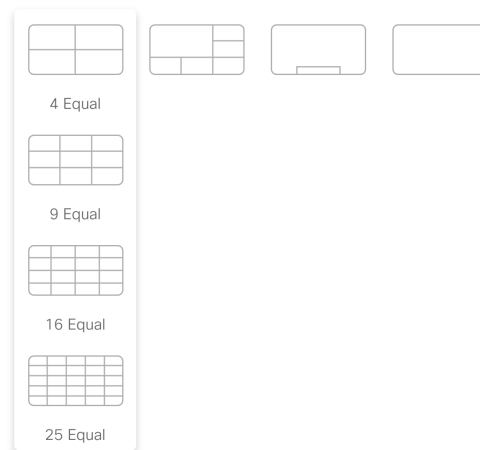
Pane placement

2. Turn on pane placement

Pane placement On

3. Select a layout.

Select a layout for pane placement



4. For the participants that you are going to place in panes, choose what you want them to see on their own screen.

The choices are:

- **Show self-view:** The placed participants will see their own video stream in the pane that is reserved for them.
The quality of self-view showed within the video layout will not be as good as the locally rendered self-view, as the video stream is transcoded which adds latency.
- **Show a blank pane:** The placed participants will see an empty background in the pane that is reserved for them.
- **Show another participant in the pane:** The placed participants will not see themselves, and they cannot see which pane is reserved for them. Instead, their reserved pane will be occupied by the next placed participant, and all the following placed participants will move "up" one pane.

Note: If participant labels are turned on, then they will appear on the self-view, but not in the blank view. Participant labels can only be turned on or off via the Meeting Server API (application programming interface) commands.

5. Add participants to panes. For each pane, click **Add Participant** to add a participant.

Pane plac

Select a la

Participant

Add partic

Pane 1

Pane 2

Pane 3

Pane 4

If you have added the participants in the wrong order, you can drag a participant up or down. Grab them in the dotted area.

Pane 1

Pane 2

Pane 3

Pane 4

You can reserve more panes by clicking the **Add another pane** link below the list, and you can remove a reserved pane by clicking the X next to the pane. For every reserved pane you remove, an active speaker can be displayed in the layout.

Note: You cannot reserve panes for alternating active speakers. Alternating active speakers will always be placed in panes with higher numbers than those reserved.

For example, you can have specific participants placed in the first two panes and leave the rest available to display active speakers. But you cannot place specific participants in panes 1 and 4 and leave panes 2 and 3 available for active speakers.

6. Check the preview and optimize for the preferred number of screens.

You can see a preview of where each participant would be placed in the chosen layout on 1-screen, 2-screen, or 3-screen endpoints. The previews are correct if all panes are reserved, or if there are at least as many participants in the meeting as there are panes in the selected layout.

In the example below you can see how it looks when 3 panes are reserved, but only two have been assigned to participants. Originally 4 panes were reserved, but we removed one so the bottom right pane can be occupied by the one who last spoke of the participants who have not been placed in panes.

Pane 1 ×

Pane 2 ×

Pane 3 ×

Preview 1 Screen ▾

1	2
3	x

This is the same example, showing the 2 screen preview. Note that Lis Jensen is now displayed at the top of the right screen instead of the bottom of the left screen. In this view, 5 of the latest active speakers can be displayed.

Pane 1 ×

Pane 2 ×

Pane 3 ×

Preview 2 Screens ▾

1	2	3	x
x	x	x	x

7. Optional for advanced use: Uncheck the **Set this layout for active participants** check box if you don't want to apply the selected layout for all participants.

Note: This option is only for advanced use. Most pane placement scenarios will require that this box remain checked. The option has been made available for users who want to apply the pane numbering without controlling the layout.

5.5 Move participants to a different meeting

In active meetings, you can choose one or more participants and move them to a different meeting. This is useful if someone has dialed into the wrong meeting, or if someone needs to go straight from one meeting to another. It can also be used for break-out sessions from bigger meetings.

In this release, you cannot move all participants. The general restrictions are:

- You cannot move participants who are using a Microsoft client (Lync, Skype for Business).
- You cannot move anyone into a dual homed meeting.

Depending on how your Cisco Meeting Server deployment is set up, there could be more restrictions. If you want to know more, see the guide "Cisco Meeting Server, Administrator Guide to Moving a Participant using the API" which you can find in the list of [Meeting Server Configuration Guides](#).

As an operator, you do not need to know all the details of the limitations. Meeting Management will display a warning if a participant cannot be moved.

However, you do need to know a bit of what happens when you move someone into a new meeting:

- If a participant is presenting when you move them to a new meeting, then it is likely that the presentation is also seen in the new meeting.
- Mute status, selected layout, importance and other settings will be replaced with default settings for the new meeting.
- If you move someone into a meeting where participants need to be activated and are waiting in the lobby, then Meeting Management turns the moved participant into an activator. This means that the moved participant will enter the meeting immediately, along with any other participants who were waiting in the lobby.
- If the new meeting is locked, Meeting Management will override the lock, and the moved participant will be taken straight into the meeting. The meeting will stay locked for other participants.

Note: The lock mode affects what happens when you move participants to a locked meeting. If you are using the lock mode that lets you lock out all participants, then moved participants may stay in the lobby of the new meeting.

To move participants:

1. Choose the participants you want to move.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Participant name	Join time	Leave time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	James Reeves	23/10/2020 21:51		<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Allie Dawson	23/10/2020 21:46		<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Brian Novak	23/10/2020 21:42		<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ben Dawkins	23/10/2020 21:42		<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	John Smith	23/10/2020 21:42		<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Note: If you want to move participants out of a dual homed meeting, you cannot select participants from the meeting details view. Instead, click the **Move participants** button and select participants in the **Move participants** dialog.

2. Click the **Move participants** button.



Move
participants

3. Check that you have selected all the participants you want to move.

*If you forgot to add someone, you can change the filter to **All** and select more participants.*

Move Participants
×

Moving from: Weekly Team Update

Participants Selected All

Deselect all

- Brian Novak
- John Smith

Moving to

→ Marketing review
Start time: 23/10/2020 22:01; Owner: Brian Novak

NPI team meeting

⊙
Moving 2 participants from Weekly Team Update to Marketing review

Cancel

Move

Note: If any participants cannot be moved, you will see a warning sign next to the participant's name.

- Allie Dawson
- ⚠ Ben Dawkins
- Brian Novak

Note: Dual homed meetings will not appear in the list, as you cannot move someone into a dual homed meeting.

Note: The list in this dialog is updated continuously. If any of the participants are disconnected from the meeting, then they disappear from the list.

4. Choose the meeting you want to move the participants to.
5. Click **Move**.

Some participants cannot be moved using this feature. To move someone manually:

1. Open the participant details to copy the video address or number.
2. **Drop** the participant from the current meeting.
3. Go to the meeting you want to move the participant to.
4. Click **Add participants**, then paste or type the video address or number, and **Add**.

After you have moved participants out of a meeting, they still appear in the participant list with the status **Moved**. Also, you can click **Follow** to see the meeting they were moved to.

<input type="checkbox"/>	1 ▲	Participant name	Join time	2 ▼	Leave time	Actions
<input type="checkbox"/>	☒ ✓	James Reeves	23/10/2020 21:51			📄 📺 🗑️ 📞 ✕
<input type="checkbox"/>	☒ ✓	Ⓜ Allie Dawson	23/10/2020 21:46			📄 📺 🗑️ 📞 ✕
<input type="checkbox"/>	☒ ✓	Ben Dawkins	23/10/2020 21:42			📄 📺 🗑️ 📞 ✕
<input type="checkbox"/>	☒ →	Brian Novak Follow	23/10/2020 21:42		23/10/2020 22:11	📄 📺 🗑️ 📞 ✕
<input type="checkbox"/>	☒ →	John Smith Follow	23/10/2020 21:42		23/10/2020 22:11	📄 📺 🗑️ 📞 ✕

5.6 Use the meeting lobby and lock meetings

For some types of meetings it can be useful that some participants cannot enter the meeting until a host is ready. For example, you may want to make sure that you have everything set up before invited participants join, or you may want to lock the meeting after start so participants who join late cannot enter unnoticed.

5.6.1 Use the lobby to let invited participants wait for a host

If your Meeting Server administrator has set it up, then some of the participants will stay in a meeting lobby if no host is present. This use of the meeting lobby depends on your administrator setting up specific user profiles:

- **Activator:** Participants with Activator profile act as hosts and can start meetings on their own. Also, when they join a meeting, all lobby participants are automatically moved into the meeting.

- **non-Activator:** Participants with non-Activator profile act as a kind of guest who cannot start a meeting on their own. They must wait in the lobby until an Activator joins the meeting.

5.6.2 Lock meetings

You can lock meetings to keep some or all participants out of an active meeting. There are two different lock modes, a "needs activation" lock mode that lets you lock out non-Activators, and an "all" lock mode that lets you lock out all participants. The default lock mode is "all", and your administrator can change it to the "needs activation" mode.

The lock mode can be set on different levels, such as for just one space, but we expect that most administrators will set one lock mode for everything.

Note: Meeting Management does not show which lock mode is in use, so ask your administrator what is configured.

Limitations for the "needs activation" lock mode:

- You cannot lock any dual homed meetings.
- You cannot lock meetings where individual participants are dialing into meetings that are hosted on the AVMCU.
- You cannot lock forwarded calls.
- You cannot lock gateway calls.
- Members of a space can never be locked out of a meeting that is hosted in that space.
- Non-members of a space do not always have non-Activator profiles.
- As an operator, you cannot see if a participant has an Activator or non-Activator profile.
- As an operator, you cannot see which rules has been set for what happens after the last Activator leaves the meeting.

Limitations for the "all" lock mode:

- You cannot lock any dual homed meetings.
 - You cannot lock meetings where individual participants are dialing into meetings that are hosted on the AVMCU.
- You cannot lock forwarded calls.
- As an operator, you cannot see which rules has been set for what happens after the last Activator leaves the meeting.

To lock a meeting:



Lock

1. Click

This locks out participants with non-Activator profile or all participants, depending on Meeting Server version and configuration.

To unlock a meeting:



Lock

1. Click

This lets all participants enter the meeting if an Activator is present. If there is no Activator in the meeting then non-Activators will still be waiting in the lobby until an Activator joins.

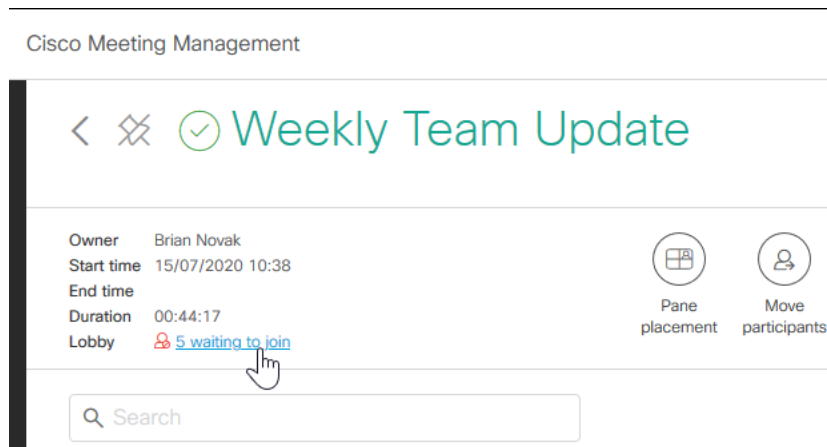
5.6.3 Admit all participants

If a meeting is locked you can choose to manually let all lobby participants enter the meeting.

You can use the **Admit all** button to manually let all lobby participants (including non-Activators) into the meeting, even if no Activator is present.

To let lobby participants into a meeting:

1. In the meeting details, click on the number of participants waiting




A dialog with a list of lobby participants will open.

- Optional: Drop any participants you do not want to enter the meeting.

Note: Participants that you drop from the lobby will appear in the general list of disconnected participants, and Meeting Management does not show which participants were disconnected from the lobby and which were dropped from the actual meeting.

Note: If you drop participants who are using the Cisco Meeting Server web app, then you cannot dial them back into the meeting. The web app can be used only for joining meetings, not for receiving calls.

- Optional: Change display name for participants.

- Click  next to a participant's name.

- Change the name, and **Save**.

- Click **Admit all**.

If the meeting is unlocked, then all lobby participants are let into the meeting whether or not an Activator is present.

5.6.4 What happens after an Activator leaves?

What happens after the last Activator leaves depends on what your Meeting Server administrator has configured:

- deactivate: The non-Activators stay connected, but they are moved back to the lobby.
- disconnect: The non-Activators are disconnected.
- remainActivated: The non-Activators stay in the meeting.

Ask your Cisco Meeting Server administrator if you want to know what the settings are.

How long it takes before participants are disconnected or deactivated depends on how many seconds the Meeting Server administrator has set it to take.

5.7 Add participants

You can add new participants or call back disconnected participants.

To add new participants:

1. Click the **Add participants** button.



Add
participants

2. Type in video addresses or numbers for the participants you want to add.

If your administrator has added TMS phonebooks to Meeting Management, then you can search for contacts instead. Ask your administrator if you are in doubt. The search will work as it does when you search in TMS, but you will see maximum 50 search results.

3. Click **Add**.

Participants who are added with their address or number may appear in the participant list with their address, as Meeting Management may not be able to retrieve information about their display name. However, you can [change their display name](#) when they are connected.

To call back a disconnected participant, use the individual call button for the participant.


Note: If a participant cannot be connected, you may not see any error messages. First you will see a spinner as connection status, and then the status will change to disconnected. Try again. If the participant still cannot be connected, then ask your administrator to check the Meeting Server dial plans.

5.8 Change display name for a participant

During an active meeting, you can change the display name for any connected participant. The display name you enter will be seen by all participants in the meeting, for as long as the participant is connected.

Note: If renamed participants are disconnected from the meeting, they will have their original display name when they reconnect.

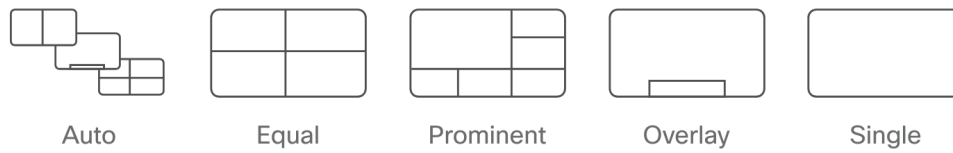
To change the display name for a participant:

1. Open the side panel with participant details.
2. Next to the name, click  .
3. Write the new name and **Save**.

Note: The length of the name can be up to 50 Roman characters with no accents, or up to 12 Chinese characters. However, people in the meeting are not likely to ever see more than around 25 Roman characters in the participant list. Also, the label that they see in a participant's pane may be shortened, depending on how much space is available on the screen.

5.9 Change layout for all or selected participants in a meeting

You can change the video layout for all participants who are dialing in from a SIP endpoint. You can choose one of the layouts shown here:



Except for the **Single** layout, these are dynamic layout "families" that change as more participants enter the meeting. For instance, the **Equal** layout is showing panes of equal size, and it expands from a 4 participant view up to a 25 participant view.

For more information about the different layouts, see *Cisco Meeting Server Administrator Quick Reference Guide: Screen Layouts and Pane Placement*.

Changing the layout will only affect participants currently in the meeting and not participants who join after the change.

Individual participants who have layout permissions can subsequently change their own layout.

To change layout:

1. Optional: Select the participants you want to change layout for.
2. Click the **Set layout for all** or **Set layout** button above the participant list.



Set layout
for all

Note: If pane placement is turned on, we recommend that you use the **Pane placement** button to change layouts. This is because pane placement uses specific versions of each layout family that you cannot choose here.

Note: Only a subset of the existing Meeting Server layouts are available in Meeting Management.

You cannot change layouts for Lync/Skype for Business clients or for the web app. Also, some endpoints may have different layouts than the ones available on the Meeting Server, or show different behavior when you try to change the layout. See our knowledge base for an overview:

[How will my endpoint layout controls behave when used with Cisco Meeting Server and managed by Cisco Meeting Management](#)

5.10 See who is speaking or presenting

An icon will indicate if a participant is speaking or sending audible background noise.

In the screenshot below, Sandra Ty is currently audible. Sally Wood has been audible within the last 30 seconds, so the icon is still displayed, but it has turned gray.

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Participant name	Join time	Leave time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sandra Ty	23/10/2020 22:11		<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sally Wood	23/10/2020 22:11		<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

If you filter by **Speaking** participants, you will see all participants who are currently audible, as well as participants who have been audible within the last 30 seconds.

Another icon will indicate if a participant is presenting.

In the screenshot below, Sandra Ty is presenting and speaking.

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Participant name	Join time	Leave time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sandra Ty <input checked="" type="checkbox"/>	23/10/2020 22:11		<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sally Wood	23/10/2020 22:11		<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

5.11 Mute or unmute audio for all or selected participants in a meeting

To mute participants:

1. Optional: Select the participants you want to mute.
2. Click the **Mute all** or **Mute** button.



Mute all

To unmute participants:

1. Optional: Select the participants you want to unmute.
2. Click the **Unmute all** button or **Unmute** button.



Unmute all

The way the web app and SIP endpoints handle audio and video control varies. See our knowledge base for an overview:

[How will my endpoint mute/unmute controls behave when used with Cisco Meeting Server and managed by Cisco Meeting Management?](#)

5.12 Start and stop recording

If a Recorder is configured on the Meeting Server, you can start recording a meeting, or you can stop an ongoing recording.

To start or stop a recording:

1. Click the recording button.



Recording

Note: If individual participants have permissions, they can also stop or start recordings.

Typically, your administrator will have informed you if recording is configured for a meeting. If you need to check it yourself, click the **Recording** button and check if you get an error message.

Note: If a space has been configured to record all meetings, you can see the meeting is being recorded, but you cannot stop the recording.

5.13 Start and stop streaming

If streaming is configured on the Meeting Server, and a streaming URI is set for the meeting you are managing, you can start or stop streaming.

To start or stop streaming:

1. Click the streaming button.



Streaming

Typically, your administrator will have informed you if streaming is configured for a meeting. If you need to check it yourself, click the **Streaming** button and check if you get an error message.

5.14 Force new participants to be muted when they join

To override new participants' mute status so they join muted:

1. Click the **Mute on entry** button.



Mute on
entry

Mute on entry will only affect new participants, not the ones currently in the meeting.

Muted participants will stay muted until you unmute them, or till they subsequently unmute themselves. Different endpoints have different behaviors; see our knowledge base for an overview:

[How will my endpoint mute/unmute controls behave when used with Cisco Meeting Server and managed by Cisco Meeting Management](#)

5.15 Turn audio or video on or off for an individual participant

To control audio or video for an individual participant, you can use the call controls in the **Actions** column.

You can also control audio and video from the side panel with participant details.

Also, the way the web app and SIP endpoints handle audio and video control varies. See our knowledge base for an overview:

[How will my endpoint mute/unmute controls behave when used with Cisco Meeting Server and managed by Cisco Meeting Management?](#)

5.16 Change layout for an individual participant

To change the layout for an individual participant:

1. On the **Meetings** page, meeting details view, select the participant.

The side panel with participant details will open.

2. Select the layout you want.

If they have permissions, individual participants can subsequently change their own layout.

You cannot change layouts for Lync/Skype for Business clients or for the web app. Also, some endpoints may have different layouts than the ones available on the Meeting Server, or show different behavior when you try to change the layout. See our knowledge base for an overview:

[How will my endpoint layout controls behave when used with Cisco Meeting Server and managed by Cisco Meeting Management?](#)

5.17 View participant details

The participant details will differ, dependent on the call type:

- **SIP:** The participant is using a SIP or TIP endpoint.

The screenshot displays the Cisco Meeting Management interface for a meeting titled "Department Update". The interface is divided into several sections:

- Meeting Overview:** Shows the meeting title, owner (Brian Novak), start time (23/10/2020 21:41), end time, duration (00:34:35), and lobby status (Empty).
- Participant List:** A table showing 4 participants: Allie Dawson, John Hanson, Sally Wood, and George Cavendish. Each row includes a checkbox, a mute icon, a checkmark, a speaker icon, the participant name, and the join time (23/10/20).
- Participant Details Panel (Right):** Focuses on George Cavendish (10.47.59.233). It displays:
 - Join time:** 23/10/2020 21:42
 - Encryption:** None
 - Call Type:** SIP
 - CMS:** AM-CORE-1
 - Direction:** Incoming
 - Layout Options:** Auto, Equal, Prominent, **Overlay** (highlighted), and Single.
 - Audio Performance:**

	To participant	From participant
Protocol	opus	opus
Channel rate	63 kbps	67 kbps
Current packet loss	0 %	0 %
Jitter	0 ms	2 ms
RTT	0 ms	-
 - Video Performance:**

	To participant	From participant
Protocol	h264	h264
Resolution	1920x1080	1920x1080
Frame rate	24.1 fps	23.5 fps
Channel rate	3766 kbps	3435 kbps
Current packet loss	0 %	0 %
Jitter	0 ms	8 ms
RTT	-	0 ms
 - Presentation:** To participant, From participant

Note: For individual participants, you may see layout options that are not available for the endpoint in use.

- **Lync:** The participant is using Lync or Skype for Business.

The screenshot displays the Cisco Meeting Management interface for a meeting titled "Department Update". The interface is divided into several sections:

- Header:** Shows the meeting title "Department Update" and the owner "Brian Nook".
- Participant List:** A table showing 4 participants: Allie Dawson, John Hanson, Sally Wood, and George Cavendish. All are currently "Connected".
- Call Controls:** Includes icons for "Pin placement", "Move participants", "Add participants", "Set layout for all", "Mute all", and "Unmute all".
- Participant Detail Panel (Right):** Focuses on "Allie Dawson" (10:47:59.233). It shows:
 - Join time:** 23/10/2020 21:42
 - Call Type:** Lync
 - CMS:** AM-CORE-1
 - Direction:** Incoming
 - Layout Options:** Auto, Equal, Prominent, **Overlay** (highlighted), Single.
 - Audio Performance:**

	To participant	From participant
Protocol	opus	opus
Channel rate	63 kbps	67 kbps
Current packet loss	0 %	0 %
Jitter	0 ms	2 ms
RTT	0 ms	-
 - Video Performance:**

	To participant	From participant
Protocol	h264	h264
Resolution	1920x1080	1920x1080
Frame rate	24.1 fps	23.5 fps
Channel rate	3766 kbps	3435 kbps
Current packet loss	0 %	0 %
Jitter	0 ms	8 ms
RTT	-	0 ms
 - Presentation:** Shows "To participant" and "From participant" options.

Note: Lync calls have no call controls apart from drop call. This is because the Meeting Server cannot control Lync or Skype for Business clients.

- web app: The participant is using the web app.

The screenshot displays the Cisco Meeting Management interface for a meeting titled "Department Update". The interface is divided into several sections:

- Header:** Shows the meeting title "Department Update" and the owner "Brian Neuk".
- Meeting Info:** Displays start time (23/10/2020 21:41), end time, duration (00:34:26), and lobby status (Empty).
- Participant List:** Shows a list of 4 participants: Allie Dawson, John Hanson, Sally Wood, and George Cavendish. Each entry includes a checkbox, a status icon, the participant name, and their join time (23/10/20).
- Participant Details Panel (Right):** Focuses on "Sally Wood" (10:47:59.233). It shows call details: Join time (23/10/2020 21:42), Encryption (None), Call Type (web app), CMS (AM-CORE-1), and Direction (Incoming). Below this are detailed statistics for Audio, Video, and Presentation, comparing "To participant" and "From participant" metrics.

Audio		To participant	From participant
Protocol		opus	opus
Channel rate		63 kbps	67 kbps
Current packet loss		0 %	0 %
Jitter		0 ms	2 ms
RTT		0 ms	-

Video		To participant	From participant
Protocol		h264	h264
Resolution		1920x1080	1920x1080
Frame rate		24.1 fps	23.5 fps
Channel rate		3766 kbps	3435 kbps
Current packet loss		0 %	0 %
Jitter		0 ms	8 ms
RTT		-	0 ms

Presentation		To participant	From participant
Protocol		h264	-
Resolution		1920x1080	-
Frame rate		23.1 fps	-

Note: web app calls have no layout choices. This is because their layouts can only be controlled by the participant within the app.

Note: Participant details will not have the start or stop video button if the participant is in the call as an audio-only participant. Also, no video statistics will appear below. It may take up to 15 seconds before you can see if a participant has chosen to join as an audio-only participant.

5.18 Call statistics

For all calls, note that **Direction** for the call is to or from the Meeting Server, and call statistics are from the point of view of the participant.

In the example below, George Cavendish is in a meeting where someone is presenting. You can see that the Meeting Server is transmitting a presentation stream to him.

The screenshot shows the Cisco Meeting Management interface for a meeting titled "Department Update". The interface includes a sidebar with navigation options (Overview, Meetings, Help) and a main content area with a search bar and participant list. The participant list shows four participants: Alle Dawson, John Hanson, Sally Wood, and George Cavendish. A right-hand panel displays call statistics for audio, video, and presentation streams.

Audio		To participant	From participant
Protocol		opus	opus
Channel rate		63 kbps	67 kbps
Current packet loss		0 %	0 %
Jitter		0 ms	2 ms
RTT		0 ms	-

Video		To participant	From participant
Protocol		h264	h264
Resolution		1920x1080	1920x1080
Frame rate		24.1 fps	23.5 fps
Channel rate		3766 kbps	3435 kbps
Current packet loss		0 %	0 %
Jitter		0 ms	8 ms
RTT		-	0 ms

Presentation		To participant	From participant
Protocol		h264	-
Resolution		1920x1080	-
Frame rate		23.1 fps	-
Channel rate		3181 kbps	-
Current packet loss		0.01 %	-
Jitter		2 ms	-
RTT		-	-

For web app and SIP calls, you can always see call statistics for audio streams.

If someone in the meeting is presenting, statistics for the presentation streams are displayed for all participants, except audio-only participants.

If a participant has joined as an audio-only participant, the video or presentation statistics, as well as the stop/start video button, will not be displayed.

For participants using dual screen or TIP devices, call statistics are only displayed for one screen.

5.19 Make participants important

If you want to make specific people visible in a meeting even when they are not speaking, you can make them important. If several participants are made important, then the ones who last spoke will take priority.

To make someone important:

1. In the meeting details, find the participant's name.



2. In the **Actions** column, click .

The participant is now marked as important with a blue star, and pinned at the top of the participant list. The participant will stay pinned until you are signed out, or until you manually remove the pin. Clearing importance does not remove the pin.

You can also set or clear importance from the participant details.



Clear all
importance

If you want to clear importance for all participants, click at the top of the page.

If you want to clear importance for just some of the important participants, select the participants first, then click the button.

Note: Meeting Management only supports importance when it is set using Meeting Management or the web app. Other methods (API commands or 3rd party tools) can be used to set importance on the Meeting Server, but importance set by these other methods will not be displayed correctly in Meeting Management. If it happens during a meeting, importance will be displayed with a warning sign and the tool tip **Importance was set using a tool that is not supported with Meeting Management**. You may want to talk to your administrator before you clear the unsupported importance setting.

Note: Importance does not work if pane placement is turned on.

5.20 Meetings with disabled features

In some scenarios, certain features cannot work and have been disabled. When this happens, Meeting Management will display one or more labels in the top left corner of the meeting details.

There are two different labels:

- [Dual homed](#)

In dual homed meetings, the participants hosted on the AVMCU are not displayed, and several features are disabled or do not work as they do in other meetings.

- [Remote recording](#)

You will see this label when a Lync or Skype for Business participant is recording the meeting. Remote recording is any recording that is not done via Cisco Meeting Server. You cannot control remote recording.

5.20.1 Dual homed meeting

A dual homed meeting is a meeting where the Meeting Server and Microsoft AVMCU (Audio/Video Multipoint Control Unit) both serve as hosts. All participants using Microsoft clients (Lync, Skype for Business) are hosted on the AVMCU, and all other participants are hosted on the Meeting Server. Meeting Management gets its information from the Meeting Server, and you can only see the participants who are hosted on the Meeting Server.

The label **Dual homed meeting** is displayed so you know at a glance that this is a non-standard meeting where some features are disabled. In dual homed meetings, the only meeting level actions you can perform are **Move participants**, **Set layout for all**, **Clear all importance**, and starting or stopping a **Recording**.

Note: You can only move SIP participants out of a dual homed meeting. You cannot move participants who are hosted on the AVMCU, and you cannot move anyone into a dual homed meeting.

The screenshot shows the Cisco Meeting Management interface for a meeting titled "Department Update". The interface includes a navigation sidebar on the left with "Overview" and "Meetings" options. The main content area displays meeting details: Owner (Brian Novak), Start time (23/10/2020 21:41), End time (00:33:59), Duration (Empty), and Lobby (Empty). A toolbar at the top right contains various meeting controls: Place placement, Move participants, Add participants, Set layout for all, Mute all, Unmute all, Clear all importance, Recording, Streaming, Mute on entry, Lock, Event logs, and End meeting. Below the toolbar is a search bar and a filter section with buttons for Activity, Important, Speaking, Status, Connected, Moved, and Disconnected. The participants list shows 5 of 5 participants:

	1	Participant name	Join time	Leave time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/>	James Reeves	23/10/2020 21:51		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Allie Dawson	23/10/2020 21:46		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Brian Novak	23/10/2020 21:42		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Note: If all the participants who are hosted on the Meeting Server leave the meeting, Meeting Management will display the meeting as ended, even if there are still connected participants who are hosted on the AVMCU.

For individual participants, you can perform all actions, except for starting or stopping their video. Importance works, but it can only be set for participants who are hosted on the Meeting Server. Also, importance only affects what other participants on the Meeting Server can see. Participants hosted on the AVMCU will see the audible participants as defined by AVMCU, rather than the participants you have made important using Meeting Management.

The screenshot displays the Cisco Meeting Management web interface. The main window shows a meeting titled "Department Update" with a "Dual homed meeting" status. The meeting details include the owner (Bren Nook), start time (23/10/2020 21:41), end time, duration (00:34:52), and lobby (Empty). A search bar and activity filters (Important, Speaking, Status, Connected, Moved, Disconnected) are visible. A list of participants shows one participant, George Cavendish, who is currently speaking. The right-hand panel provides a detailed view of George Cavendish, including his join time (23/10/2020 21:42), encryption (None), call type (SIP), CMS (AM-CORE-1), and direction (Incoming). It also features video and audio controls, with the "Overlay" video layout option selected.

Table 2: Meeting level controls

Action	Enabled	Notes
Pane placement	No	
Move participants	Yes	This works only for SIP and web app participants hosted on the Meeting Server, and only for moving out of the dual homed meeting.
Add participants	No	
Set layout for all participants	Yes	
Set layout for selected participants	No	
Mute all	No	
Unmute all	No	
Mute selected	No	
Unmute selected	No	
Clear all importance	Yes	
Clear importance for selected participants	No	
Start/stop recording	Yes	
Start/stop streaming	No	

Action	Enabled	Notes
Mute on entry	No	
Event logs	Yes	You can only see event logs for participants and actions hosted on the Meeting Server.
End meeting	No	

Note: For a dual homed meeting, the event logs may show events for additional 'participants' who are not displayed in the participant list. These additional 'participants' represent the connection between the AVMCU and Cisco Meeting Server, and are not shown in Meeting Management interface to avoid confusion with actual participants who can be managed. There is also no additional management functionality for these connections.

Table 3: Controls for individual participants

Action	Enabled	Notes
Mute/unmute	Yes	
Start/stop video	No	
Make important/clear importance	Yes	The importance will only have effect for what participants hosted on the Meeting Server will see.
Call	No	
Drop	Yes	
Change layout	Yes	

5.20.2 Remote recording

When a Lync or Skype for Business participant is recording a meeting, you will see the label **Remote recording**.

Remote recording is any recording that is not handled by the Cisco Meeting Server. A recording indicator will be displayed for all participants if a remote recording is taking place.

The screenshot shows the Cisco Meeting Management interface for a meeting titled "Department Update". The interface includes a sidebar with navigation options (Overview, Meetings), a top toolbar with various meeting controls (Place placement, Move participants, Add participants, Set layout for all, Mute all, Unmute all, Clear all importance, Recording, Streaming, Mute on entry, Lock, Event logs, End meeting), and a participant list table.

Meeting details:

- Owner: Brian Novak
- Start time: 23/10/2020 21:41
- End time: 00:34:07
- Duration: 00:34:07
- Lobby: Empty

Participant list:

Participant name	Join time	Leave time	Actions
James Reeves	23/10/2020 21:51		[Mute] [Unmute] [Mute on entry] [Lock] [Event logs] [End meeting]
Allie Dawson	23/10/2020 21:46		[Mute] [Unmute] [Mute on entry] [Lock] [Event logs] [End meeting]
Brian Novak	23/10/2020 21:42		[Mute] [Unmute] [Mute on entry] [Lock] [Event logs] [End meeting]
Ben Dawkins	23/10/2020 21:42		[Mute] [Unmute] [Mute on entry] [Lock] [Event logs] [End meeting]
John Smith	23/10/2020 21:42		[Mute] [Unmute] [Mute on entry] [Lock] [Event logs] [End meeting]

Participants dialing in from a video system will see a different recording indicator for remote recordings than the one they see for recordings handled by the Meeting Server. web app users see the same recording indicator for all recordings, whether they are remote or via the Meeting Server.

For more information, see the "Recording indicator for dual homed conferences" section of any of the [Cisco Meeting Server Deployment Guides](#).

6 Meeting event logs

The event logs give a timeline for what happened in a meeting, e.g. when the meeting started and ended, when participants joined and left, when recording was started, when layout was changed, when participants were muted/unmuted, etc.

Event logs for an individual meeting are available as long as the meeting is listed on the **Meetings** page. You can view the logs on the screen, or you can download them if you need to access them later.

6.1 Timestamps for event logs

Meeting Management applies timestamps to event logs when it receives information from the Meeting Server. Timestamps are given and stored in UTC, but if you look at the event log within Meeting Management, they are converted into your browser's timezone.

The table below illustrates how time is assigned and displayed in Meeting Management.

View	Timestamps assigned by	Time zone or standard	Time format	Notes
Event logs on screen	Meeting Management	Your browser's time zone	24 hour format	If event logs are re-synchronized with the Meeting Server, new timestamps are given.
Event logs downloaded	Meeting Management	UTC	24 hour format	
Details on Meetings page and meeting details	Meeting Server	Your browser's time zone	24 hour format	If the time for your Meeting Server is not synchronized with the time for your Meeting Management, the timestamps you see here can differ from what you see in the event logs.

To see event logs on screen:

1. Click the **Event logs** button.



2. See the logs.

Logs for Weekly Team Update
×

Timestamp	User	Message	Participant	Level
23/10/2020 21:46:10		Participant joining	Allie Dawson	Information
23/10/2020 21:43:10	swood	Set meeting layout: onePlusN: 3 participants affected		Information
23/10/2020 21:42:10		Participant joining	John Smith	Information
23/10/2020 21:42:10		Participant joining	Ben Dawkins	Information
23/10/2020 21:42:10		Meeting started		Information
23/10/2020 21:42:10		Participant joining	Brian Novak	Information

1 2

Download log

Timestamp: Timestamps seen in the onscreen logs are based on the Meeting Management server's time, converted to your browser's local time zone.

User: Users listed here are video operators or administrators of Meeting Management.

Note: Participants are not registered as users in Meeting Management, even if they are registered users on the Meeting Server.

Message: Messages indicate what has happened.

Participant: A participant name or address is displayed if the event was initiated by a participant, or if a change was made for that individual participant. For instance, both a user and a participant will be displayed if the video operator changes screen layout for an individual participant.

Note: When Meeting Management is restarted, all event logs are lost. Only start times and participant join times will be recreated, and only for active meetings. Note that re-synchronized events get new timestamps, so timestamps are unreliable for meetings that were active during restart.

6.2 List of event log messages

The table below lists event log messages you may see.

Message	User displayed	Participant displayed	Level	Explanation
Add meeting participant: address=<address>	Yes	No	Information	A video operator added a participant with the displayed address. The participant's name cannot be displayed when a video operator calls the participant.
Add meeting participant failed: address=<address>	Yes	No	Warning	A video operator tried to add a participant with the displayed address. The operation failed.
Disconnect participant	Yes	Yes	Information	A video operator disconnected a participant.
Disconnect participant failed	Yes	Yes	Warning	A video operator tried to disconnect a participant. The operation failed.
End meeting	Yes	No	Information	A video operator ended the meeting.
End meeting failed	Yes	No	Warning	A video operator tried to end the meeting. The operation failed.
Meeting ended	No	No	Information	The meeting ended.
Meeting started	No	No	Information	The meeting started. This happens when the first participant joins, or when the meeting is started via a command. For instance, if a meeting is booked via TMS, TMS sends a command to start the meeting.

Message	User displayed	Participant displayed	Level	Explanation
Participant joining	No	Yes	Information	A participant joined the meeting or reconnected to the meeting.
Participant is disconnected	No	Yes	Information	A participant was disconnected.
Participant merged	No	Yes	Information	This happens when a participant is seen twice by Meeting Management because of disconnecting and reconnecting. Meeting Management compares the details and removes duplicates of the same participant.
Participant rejoining	No	Yes	Information	A participant was called back into the meeting by a video operator.
Recording: recorder=<recorder>, path=<path>	No	Yes	Information	Shortly after recording with local Recorder has started, the name and path for the Recorder are displayed in the event log. The Recorder appears as a participant in the event logs.
Recording: recorder=<recorder>	No	Yes	Information	Shortly after recording with a SIP Recorder has started, the name of the Recorder is displayed in the event log. The Recorder appears as a participant in the event logs.
Redial participant	Yes	Yes	Information	A video operator called a disconnected participant back into the meeting.
Redial participant failed	Yes	Yes	Warning	A video operator tried to call a disconnected participant back into a meeting. The operation failed.
Set meeting layout: layout=<layout>	Yes	No	Information	A video operator has changed the layout for all participants to the displayed layout.

Message	User displayed	Participant displayed	Level	Explanation
Set meeting layout failed: layout=<layout>	Yes	No	Warning	A video operator tried to change the layout for all participants to the displayed layout. The operation failed.
Set meeting record: enabled=true	Yes	No	Information	A video operator has started recording.
Set meeting record failed: enabled=true	Yes	No	Warning	The recording feature is available for this meeting. A video operator tried to start recording, but the operation failed.
Set meeting record: enabled=false	Yes	No	Information	A video operator has stopped recording.
Set meeting record failed: enabled=false	Yes	No	Warning	A video operator tried to stop recording, but the operation failed.
Set meeting stream: enabled=True	Yes	No	Information	A video operator started streaming.
Set meeting stream failed: enabled=True	Yes	No	Warning	A video operator tried to start streaming. The operation failed.
Set meeting stream: enabled=False	Yes	No	Information	A video operator stopped streaming.
Set meeting stream failed: enabled=False	Yes	No	Warning	A video operator tried to stop streaming. The operation failed.
Set participant layout: layout=<layout>	Yes	Yes	Information	A video operator has changed the layout for an individual participant into the displayed layout.
Set participant layout failed: layout=<layout>	Yes	Yes	Warning	A video operator tried to change the layout for an individual participant to the displayed layout. The operation failed.

Message	User displayed	Participant displayed	Level	Explanation
Set participant mute: <stream>=<value>	Yes	Yes	Information	A video operator muted or unmuted a participant, or stopped or started the participant's video. <stream> can be rxAudio or rxVideo <value> can be True (for audio muted or video stopped) or False (for audio unmuted or video started). The value is the state the video operator tried to change to, not the current state.
Set participant mute failed: <stream>=<value>	Yes	Yes	Warning	A video operator has tried to mute or unmute a participant, or to stop or start the participant's video. The operation failed. <stream> can be rxAudio or rxVideo <value> can be True (for audio muted or video stopped) or False (for audio unmuted or video started). The value is the state the video operator tried to change to, not the current state.
Streaming: streamer=<streamer>, url=<url>	No	Yes	Information	Shortly after streaming has started, you will see this message to let you know that the Streamer with the listed name is configured to use the listed url.
Set meeting mute on entry: enabled=True	Yes	No	Information	A video operator has set all new participants to be muted on entry.
Set meeting mute on entry failed: enabled=True	Yes	No	Warning	A video operator has tried to set all new participants to be muted on entry, and the operation failed.

Message	User displayed	Participant displayed	Level	Explanation
Set meeting mute on entry: enabled=False	Yes	No	Information	A video operator disabled mute on entry.
Set meeting mute on entry failed: enabled=False	Yes	No	Warning	A video operator tried to disable mute on entry. The operation failed.
Meeting scheduled to start at <scheduled start>	No	No	Information	The meeting was scheduled in TMS to start at the displayed time.
Meeting scheduled to end at <scheduled end>	No	No	Information	The meeting was scheduled in TMS to end at the displayed time.
Meeting has TMS ID <tms conference id>	No	No	Information	The meeting was scheduled in TMS with the displayed TMS conference ID.
Set meeting importance: <unset>	Yes	No	Information	A video operator cleared all importance.
Set meeting importance failed: <unset>	Yes	No	Warning	A video operator was trying to clear all importance, but the operation failed.
Set participant importance: <value>	Yes	Yes	Information	A video operator made a participant important or cleared importance. <value> can be "0" for important or unset for cleared. The value is the state the video operator tried to change to, not the current state.
Set participant importance failed: <value>	Yes	Yes	Warning	A video operator tried to make a participant important or to clear importance, but the operation failed. <value> can be "0" for important or unset for cleared. The value is the state the video operator tried to change to, not the current state.

Message	User displayed	Participant displayed	Level	Explanation
Set meeting importance: <unset>: <num participants> participants affected	Yes	No	Information	A video operator cleared importance for selected participants The "<num participants> participants affected" is a link which you can click to see the names of the participants affected.
Set meeting mute: rxAudio=true: <num participants> participants affected	Yes	No	Information	A video operator muted selected participants. The "<num participants> participants affected" is a link which you can click to see the names of the participants affected.
Set meeting mute: rxAudio=True: <num participants> participants affected	Yes	No	Information	A video operator muted selected participants. The "<num participants> participants affected" is a link which you can click to see the names of the participants affected.
Set meeting mute: rxAudio=False: <num participants> participants affected	Yes	No	Information	A video operator unmuted selected participants. The "<num participants> participants affected" is a link which you can click to see the names of the participants affected.
Set meeting mute failed: rxAudio=True	Yes	No	Warning	A video operator tried to mute selected participants. The operation failed.
Set meeting mute failed: rxAudio=False	Yes	No	Warning	A video operator tried to unmute selected participants. The operation failed.

Message	User displayed	Participant displayed	Level	Explanation
Set meeting layout: <layout>: <num participants> participants affected	Yes	No	Information	A video operator changed the layout for selected participants to the displayed layout. The "<num participants> participants affected" is a link which you can click to see the names of the participants affected.
Participant moving to <meeting name>	No	Yes	Information	A participant is in the process of being moved out of this meeting and into the displayed meeting.
Participant moving from <meeting name>	No	Yes	Information	A participant is in the process of being moved into this meeting from the displayed meeting.
Participant successfully moved from <meeting name>	No	Yes	Information	A participant was moved into this meeting from the displayed meeting.
Participant successfully moved to <meeting name>	No	Yes	Information	A participant was moved out of this meeting and into the displayed meeting.
Participant failed to move from <meeting name>	No	Yes	Warning	The participant could not be moved out of the displayed meeting.
Participant failed to move to <meeting name>	No	Yes	Warning	The participant could not be moved into the displayed meeting.
Requested participants move: destination=<meeting name>: <num participants> participants affected	Yes	No	Information	The selected participants have been moved. The "<num participants> participants affected" is a link which you can click to see the names of the participants affected.

Message	User displayed	Participant displayed	Level	Explanation
Requested participants move failed: destination=<meeting name>: <num panes> panes affected	Yes	No	Warning	The selected participants could not be moved. The "<num participants> participants affected" is a link which you can click to see the names of the participants affected.
Set meeting pane placement: self_pane=<self pane option> layout=<layout>: <num panes> panes affected	Yes	No	Information	Pane placement has been set, using the displayed self pane option and layout. The self pane options are what users who are placed in reserved panes will see. Self pane options are: <ul style="list-style-type: none"> • self = Self-view • blank = Blank pane • skip = Next participant The "<num panes> panes affected" is a link which you can click to see which panes have been reserved.
Set meeting pane placement failed: self_pane=<self pane option> layout=<layout>: <num panes> panes affected	Yes	No	Warning	A video operator tried to set Pane placement, using the displayed self pane option and layout. The operation failed. The "<num participants> panes affected" is a link which you can click to see the panes that should have been reserved.
Clear meeting pane placement	Yes	No	Information	A video operator turned pane placement off.
Clear meeting pane placement failed	Yes	No	Warning	A video operator tried to turn pane placement off, but the operation failed.

Message	User displayed	Participant displayed	Level	Explanation
Rename participant from <original display name> to <new display name>	Yes	Yes	Information	A video operator has changed a participant's display name. The new name is the one that appears in the participant column for this message as well as any later messages related to this participant.
Rename participant from <original display name> to <new display name> failed	Yes	Yes	Warning	A video operator tried to change a participant's display name. The operation failed, and the original display name will be seen by other participants and displayed in Meeting Management.
Set meeting lock: locked=True	Yes	No	Information	A video operator locked the meeting.
Set meeting lock failed: locked=True	Yes	No	Warning	A video operator tried to lock the meeting, but the operation failed.
Set meeting lock: locked=False	Yes	No	Information	A video operator unlocked the meeting.
Set meeting lock failed: locked=False	Yes	No	Warning	A video operator tried to unlock the meeting, but the operation failed.
Admit all	Yes	No	Information	A video operator admitted all lobby participants to the meeting.
Admit all failed	Yes	No	Warning	A video operator tried to admit all lobby participants to the meeting. The operation failed.

7 Notifications

Meeting Management keeps you up to date on what's going on with the system via notifications. As a video operator, you will get notified about issues that are relevant for you, including some issues that you need to ask your administrator to act on.

Notifications have 3 levels of severity:

- **Error:** Critical issue
- **Warning:** Issue that you or your administrator must act on to keep Meeting Management running
- **Information:** Useful information or minor issue

The image below shows examples of notifications.

Note: The number in the top bar is updated every 30 seconds, so it may temporarily differ from the number seen on the **Overview** page.

The screenshot displays the Cisco Meeting Management interface. At the top, the Cisco logo and 'Cisco Meeting Management' are on the left, and 'Notifications' (with a red indicator) and the user profile 'LDAP/Lewis Hill Video operator' are on the right. The main content area is titled 'Overview' and is divided into two panels. The 'Notifications' panel on the left lists three items: an Error (red) about incorrect credentials for Server 1, a Warning (orange) about disrupted communications for Server 2, and an Information (green) message about Server 3 synchronization. A 'See notifications (3)' link is at the bottom of this panel. The 'License status' panel on the right shows 'Smart Licensing' with three categories: 'Meetings' (In compliance, green), 'Recording or Streaming' (In compliance, green), and 'Customization' (Unlicensed, grey).

7.1 View all notifications

To see notifications:

1. Go to the **Overview** page.

*The 5 most recent notifications are listed directly on the **Overview** page.*

2. To see all notifications, click **See notifications**.

Alternatively, go to the top bar and click **Notifications**.

7.2 List of notifications

Below you can see a list of notifications that can be displayed to video operators, and what you can do if they occur.

Message	Severity	Explanation	Action
The credentials provided for server <name> are incorrect	Error	Meeting Management cannot receive information from this Call Bridge because it is trying to access it with the wrong username and password.	Ask your administrator to check the configuration.
The server <name> did not allow for this Meeting Management to be added as a CDR receiver	Error	Meeting Management cannot receive meeting information from this Call Bridge.	Ask your administrator to check the configuration.
The server <name> is not responding on address <address>	Error	Meeting Management cannot connect to this Call Bridge on this address.	Ask your administrator to check the configuration.
LDAP bind credentials are invalid	Error	LDAP is the protocol used to check your username and password. You can continue working as usual, but other users may have trouble signing in.	Ask your administrator to edit the LDAP server settings.
CDRs have never been received for server <name>	Warning	Meeting Management is not receiving call detail records from this Call Bridge, so meeting information for calls hosted on this Call Bridge is missing.	Ask your administrator to check the configuration.

Message	Severity	Explanation	Action
The last known CDR index for server <name> differs from the expected index by <count> records	Warning	Some call detail records are missing for calls that are hosted on this Call Bridge. This could be a sign that Meeting Management has lost connection to the Call Bridge.	Ask your administrator to check the status of the Call Bridge.
The CDR receiver address is not specified and cannot be added as a CDR receiver to <name>	Warning	Meeting Management is not set up to receive call detail records from Call Bridges, so you cannot monitor any meetings.	Ask your administrator to check the configuration.
Events communications with server <name> have been disrupted	Warning	The Meeting Server events connection to this Call Bridge has been disrupted.	Meeting Management will try to reconnect. If the warning has not disappeared after a minute, ask your administrator to check the configuration.
The server <name> is currently synchronising so meeting and participant details may be incomplete	Information	Information about calls hosted on this Call Bridge is likely to be incomplete.	No action required. The notification will disappear when the synchronization has been completed.
The license status for cluster <name> could not be updated	Error	Meeting Management is currently not receiving license information from this cluster, and the license status you see on the Overview page may be incorrect.	If the error message does not disappear after 5 minutes, ask your administrator to check the configuration.
The TMS phonebook is not available	Warning	Meeting Management cannot connect to any TMS phonebooks. Either Meeting Management cannot connect to TMS, or no phonebooks have been assigned to this Meeting Management in TMS.	If you have the permissions, go to TMS and check that phonebooks have been assigned to Meeting Management. If not, ask your TMS administrator to check. If phonebooks are assigned, then ask your Meeting Management administrator to check the TMS settings in Meeting Management and the connection to TMS.

Message	Severity	Explanation	Action
The license status for your Smart Account could not be updated	Error	The license status for your connected Meeting Server clusters could not be updated.	If the error message does not disappear after 5 minutes, ask your administrator to check the configuration.
One or more CRLs could not be downloaded. See logs for further information	Warning	You have chosen to let Meeting Management check the certificates against certificate revocation lists (CRLs), and one of the CRLs could not be downloaded.	Ask your administrator to check the system logs.
The number of allocated licenses has not been set for all license types	Error	Your administrator has chosen to use Smart Licensing but has not yet entered all details. Participants may see and hear warnings during meetings.	Ask your administrator to check the licensing settings.
The number of allocated licenses for a license type is higher than the number available in the Virtual Account, or has never been confirmed with Cisco Smart Software Manager	Error	Meeting Management is using Smart Licensing, and some settings have not been entered, or the settings are incorrect. Participants may see and hear warnings during meetings.	Ask your administrator to check the licensing settings.
The licensing features for cluster <name> could not be updated	Error	Meeting Management could not update the licensing information on the cluster, so enforcement may be active.	Ask your administrator to take action.
The licensing features for your Smart Account could not be updated	Error	Meeting Management could not update the licensing information on the connected clusters, so enforcement may be active.	Ask your administrator to take action.

Message	Severity	Explanation	Action
At least one server is running a software version earlier than 3.0, which is not supported by Meeting Management	Error	One or more of the connected Call Bridges are running software that is not supported.	Ask your administrator to take action.
Meeting Management was not restarted correctly	Error	Meeting Management either lost power without being shut down, or crashed.	Ask your administrator to investigate.

8 License status

If licensing is enabled in the instance of Meeting Management that you are signed in to, it keeps you up to date on the licensing status for your Cisco Meeting Server deployment.

Licenses are sorted by functionality:

- **Meetings:** This consists of activation of the Call Bridge and user licenses. If you have the appropriate licenses, then the Call Bridge can be used.
- **Recording or streaming:** These licenses allow recording or streaming.
- **Customization:** This license allows customized layouts.

The license status levels for Meetings and Recording or streaming are:

- **Unlicensed:** You don't have any licenses for recording or streaming.
- **In compliance:** You have used 80% or less of the installed licenses
- **Over 80% threshold:** You are still in compliance with your license agreement, but you have used more than 80% of the installed licenses.
- **Insufficient licenses:** You have used more licenses than available on 1 - 14 days within the last 90 days.
- **Out of compliance:** You have used more licenses than available on more than 15 days within the last 90 days.

Note: If meetings licenses are out of compliance for more than 90 days, then enforcement will be activated, and meeting participants will see and hear warnings during meetings. Your administrator can see if enforcement is active.

Note: If recording and streaming licenses are out of compliance for more than 90 days, then you cannot record or stream any meetings until you are back in compliance.

The license status levels for customization are:

- **Licensed:** You have a customization license.
- **Unlicensed:** You do not have a customization license.
- **Out of compliance:** You do not have a customization license but you have turned customization on in Meeting Management.

Note: If customization is out of compliance for more than 90 days, then you cannot use any customized layouts until you are back in compliance.

If you want to know more about the license status, see the User Guide for Administrators. If you want to know specific details of which licenses have been purchased and which have been used, ask your Meeting Management administrator.

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