

Understanding the power of RoomOS as an open integration platform

Subtitle placeholder

Tim Bowden
Collaboration Solutions Engineer, @social

cisco Live !

Cisco Webex App

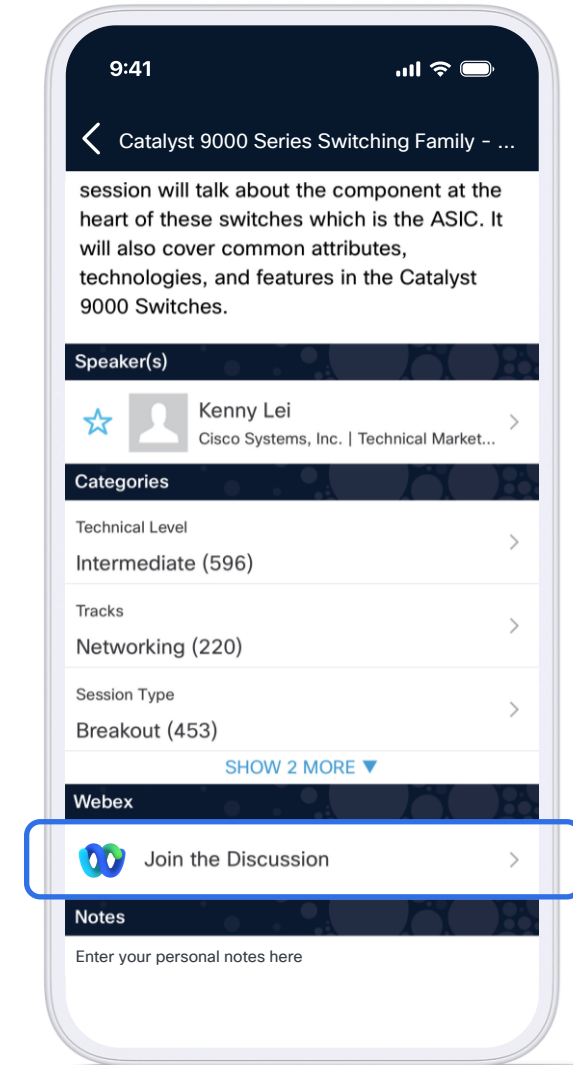
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until 14 November 2025.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKCOL-2525>

Agenda

- 01 Introduction
- 02 Overview of Cisco Devices
- 03 RoomOS Device Features
- 04 Hybrid Calendar
- 05 Joining a Google Meeting
- 06 Joining a Zoom Meeting
- 07 Content Sharing Options
- 08 Summary

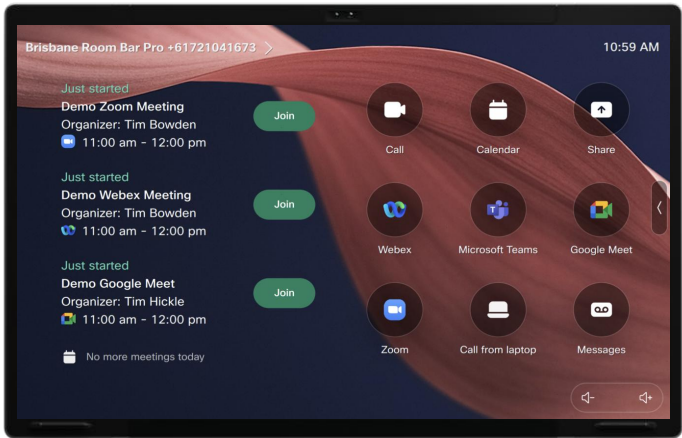
Introduction

Choose the experience for your needs

Powered by RoomOS

Session: Integrating
Collaboration with your
Microsoft environment
BRKCOL-2523

Cisco Rooms experience



Full Featured



Enhanced



Guest



or

Microsoft Teams experience



Full Featured



Enhanced



Powered by Cisco RoomOS

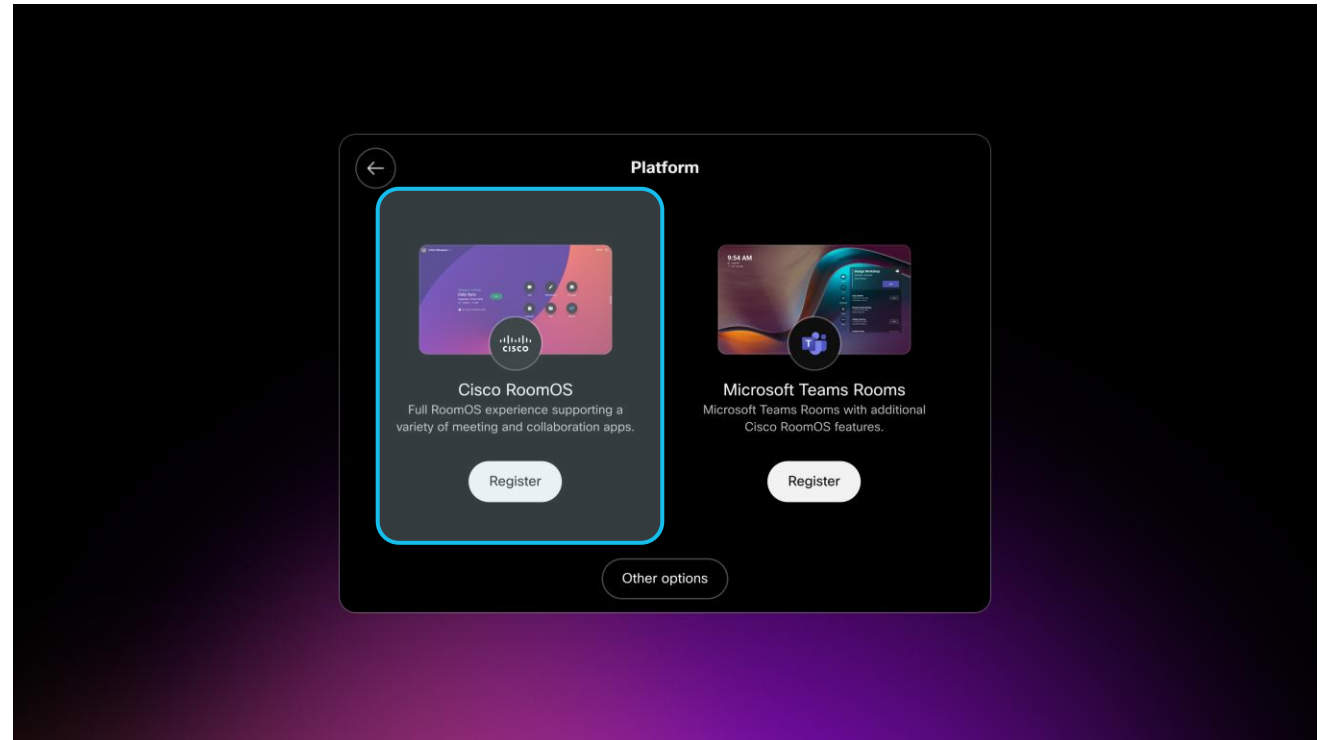
HI-FIDELITY AUDIO AND VIDEO | AI-POWERED COLLABORATION EXPERIENCES | SMART WORKPLACE INTEGRATIONS | SECURITY AND MANAGEABILITY

Choose your experience

Cisco Rooms Experience

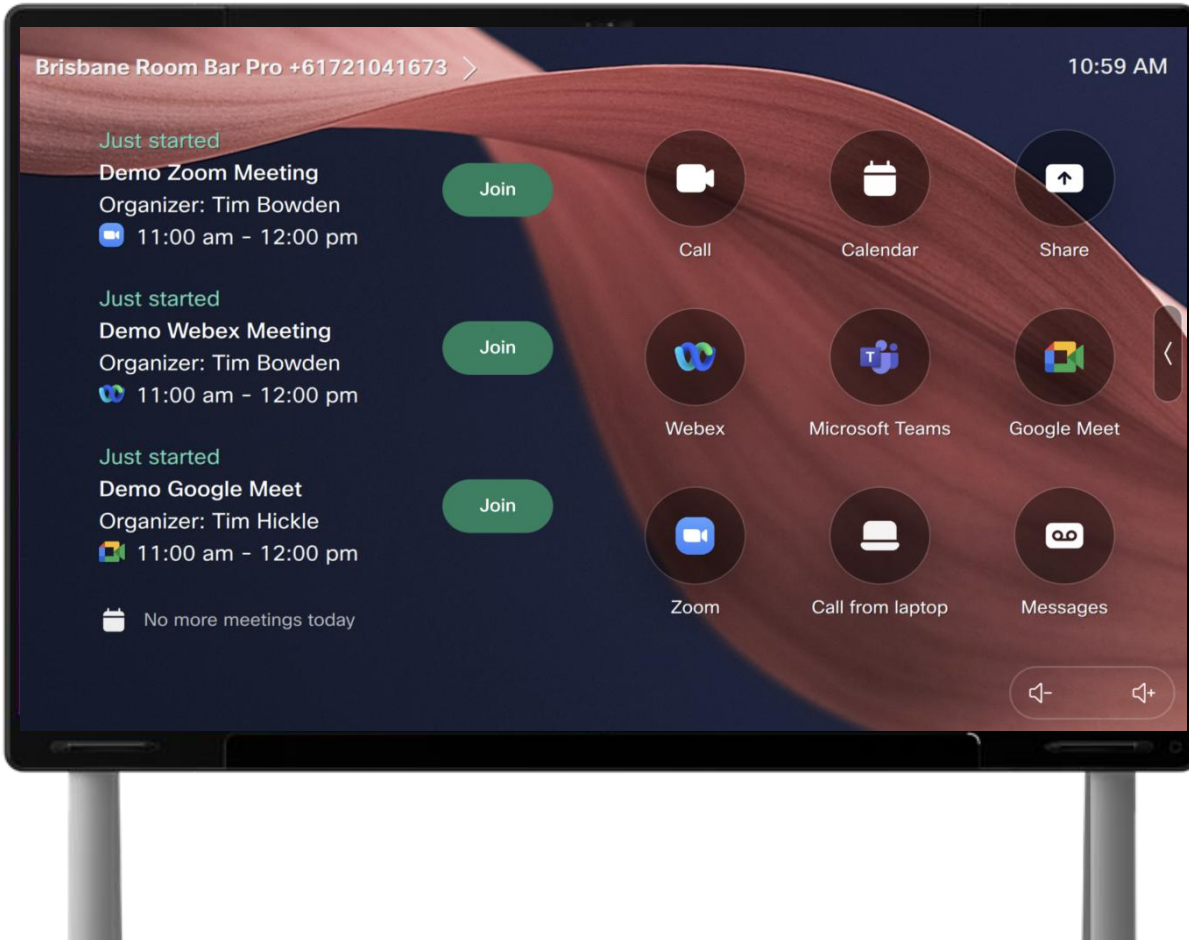
Available with RoomOS 11+ through

- Initial Setup for new out of box devices
- Factory reset devices



Easily join any meeting with one-button-to-push

RoomOS: open & extensible to support how you work



Webex Video
Integration for
Microsoft Teams
or via Direct
Guest Join

BYOD support
with USB
passthrough

Google Meet
video interop

Run native 3rd
party web apps
- Miro, Mural,
Appspace and
many more

Zoom interop
with rich
meetings
experience and
now native
Zoom app

UI extensions
for smart
buildings
integrations

Overview of Cisco Collaboration Devices

Cisco Collaboration Devices

Cisco has the largest portfolio of desk, room & peripheral devices in the industry



Introducing RoomOS 26

Your AI-enabled workforce

RoomOS 26 bring intelligence to any meeting space, allowing AI to act as a silent enabler, anticipating consumers' needs, and simplifying admin workloads.



RoomOS 26 Device Support

RoomOS 11



Room USB



Room Kit Mini



Room Kit



Room Kit Plus



Webex Board 55", 70" & 85"

RoomOS 26



Room Bar



Room Bar Pro



Desk & Desk Mini



Room Kit Pro



Desk Pro



Room Kit EQ



Board Pro, Board Pro G2, 55" & 75"



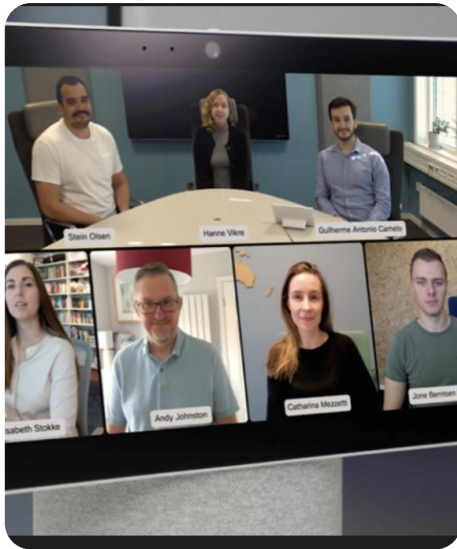
Room Kit EQX

RoomOS Device Features

RoomOS – More than just a Video Device

Our Design Principles

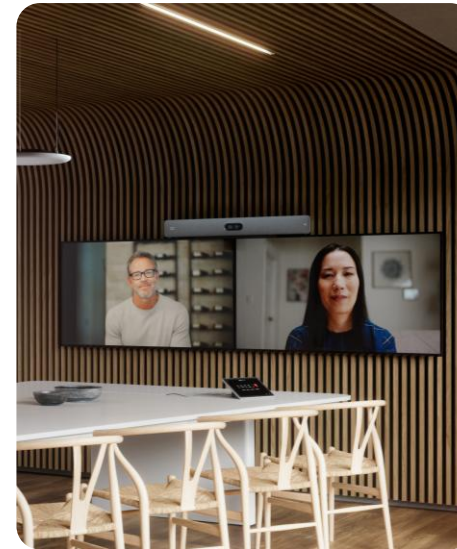
Devices for any workspace



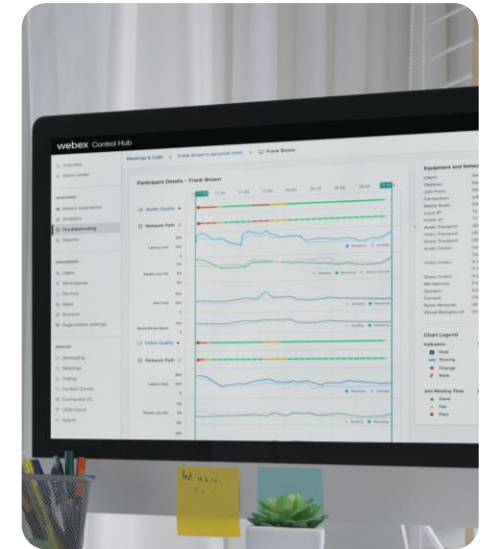
Flexibility With Interop



AI-Driven Experiences



Manageability & Analytics



Distance zero

Meeting Zones

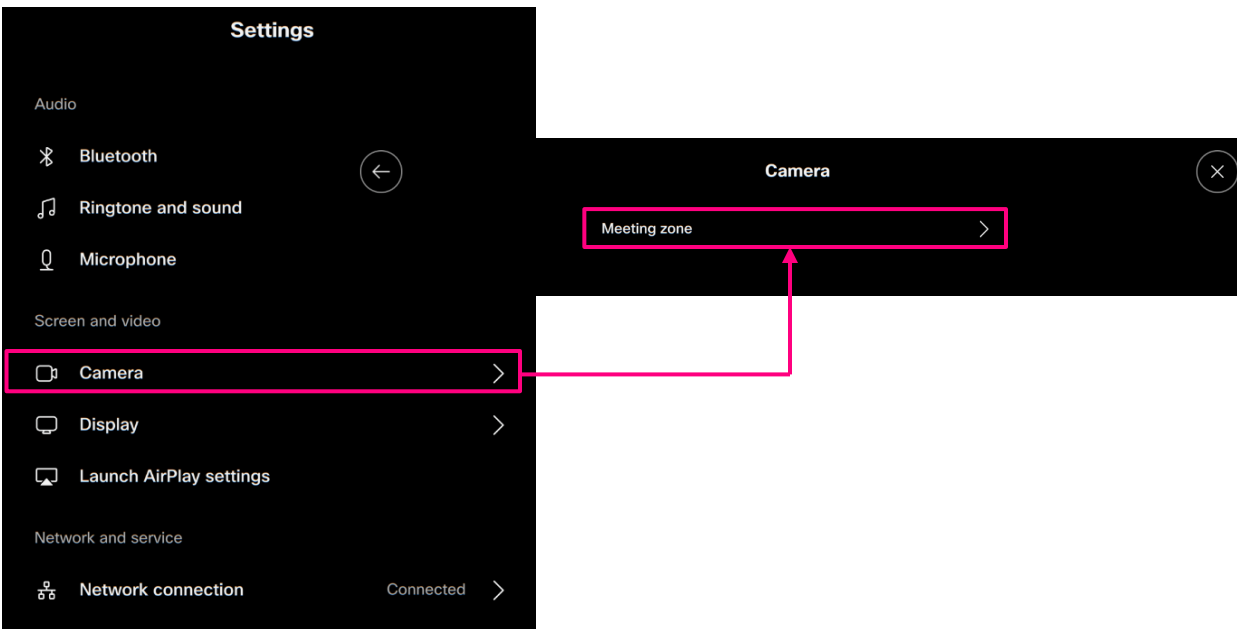
- Ensuring that only people within a defined area are included in the camera's automatic framing minimizing distractions
- Useful for open offices or glass-walled meeting rooms
- People count will only include participants within the meeting zone
- Supported on Board, Desk and Room Devices



Meeting Zones Configuration

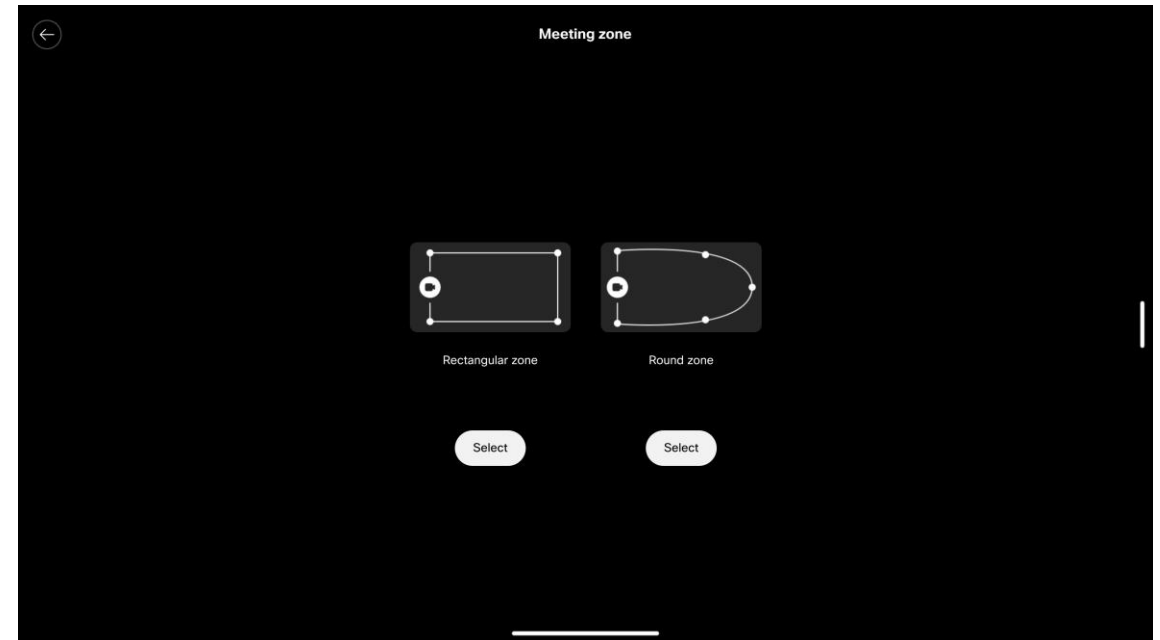
Easily configured using the Cisco Navigator or through the device's API.

- In the settings menu, select “Camera” then “Meeting Zone”



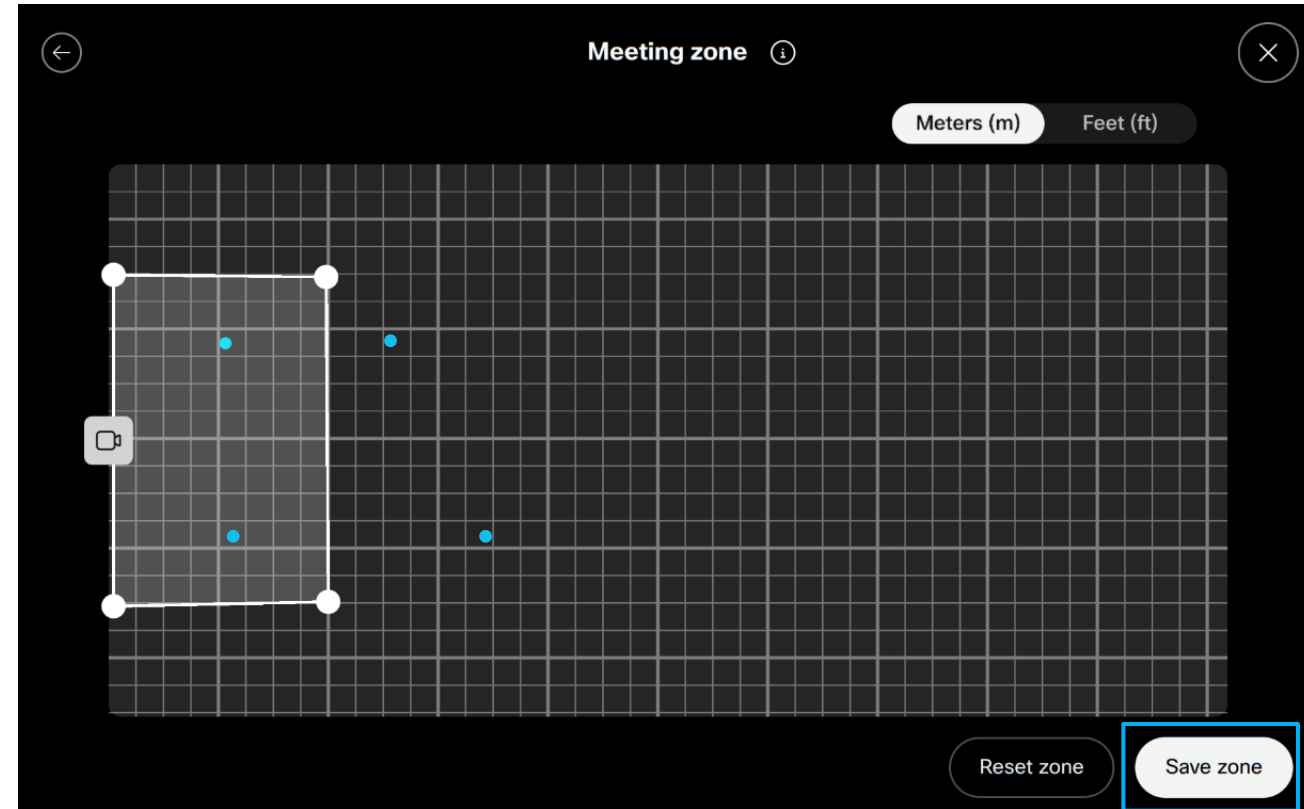
Choose between the two standard meeting zones layout:

- Rectangular zone
- Round Zone



Meeting Zones Configuration

- Changes made by dragging the anchor points to a desired position
- Long Press to delete an anchor point or Long Press to add a new point
- Blue dots represents people seen by the camera and will move when people move.
- Remember to tap "Save Zone"
- Layouts can be reset and re-drawn at any time

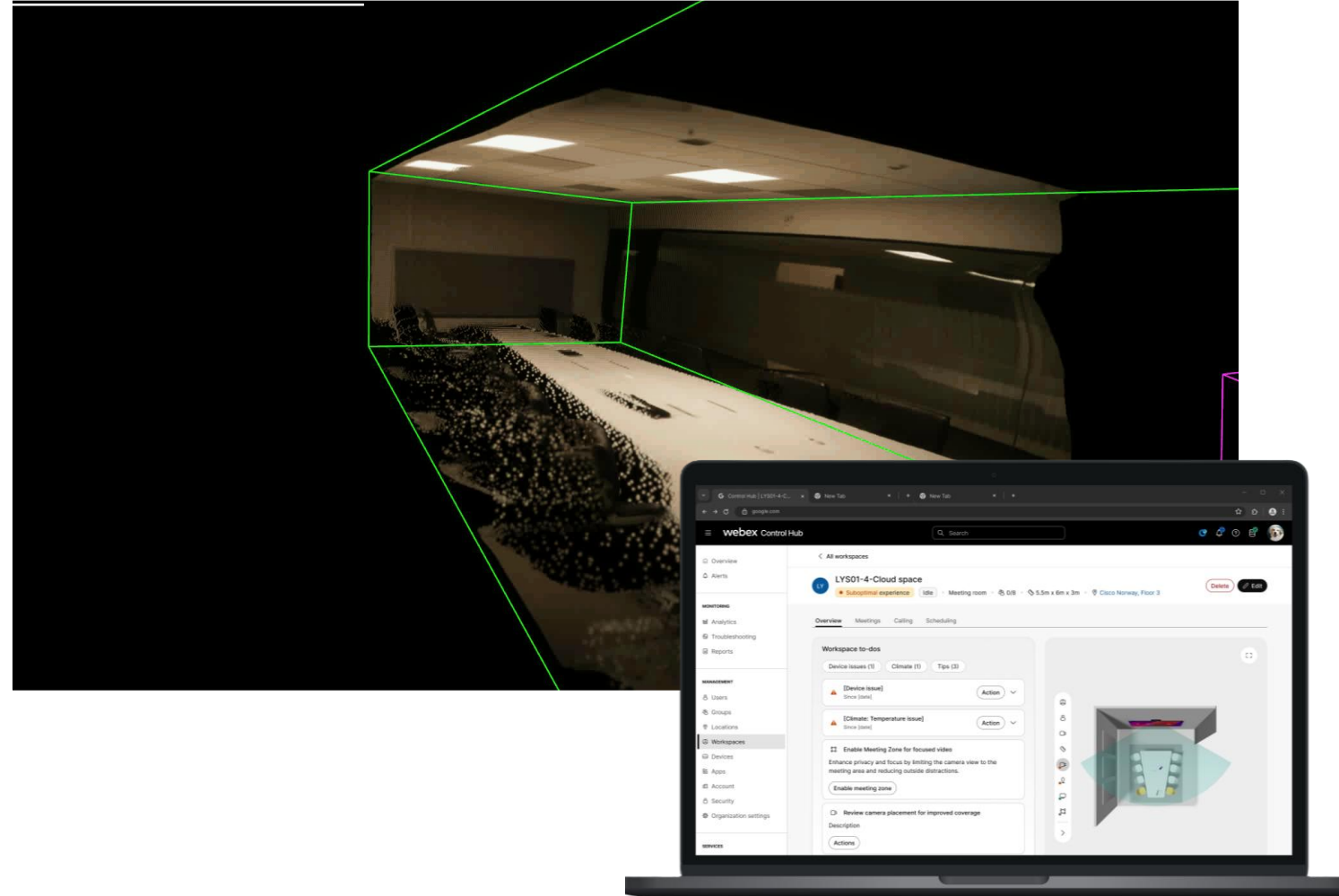


Workspace Advisor

GA: Q1 CY26

Leveraging edge AI, Workspace Advisor unlocks visibility into room dimensions, services, hardware and overall set-up efficiency. It intelligently suggests improvements to your set up, ensuring that meeting rooms are optimized to provide the best experience for end users.

Supported devices TBD. Final list to be confirmed closer to General Availability.



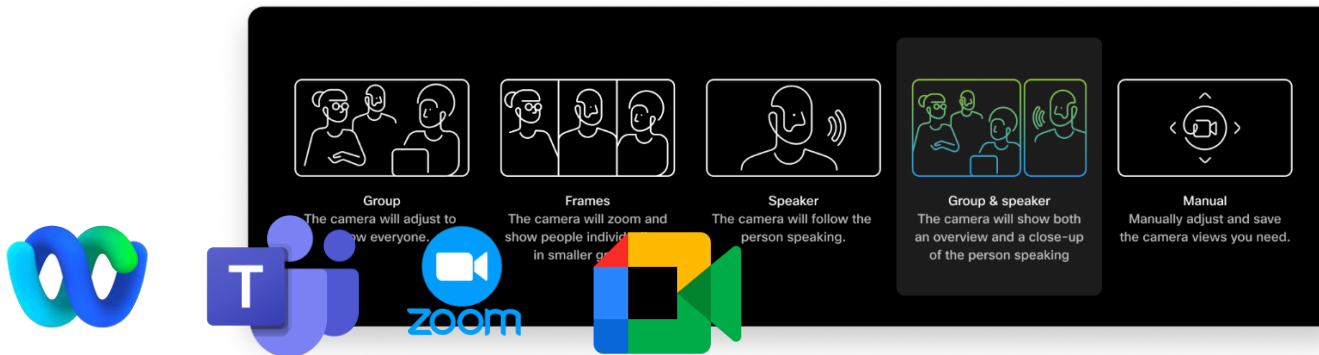
Frames

- Frames will capture everyone in the room in up to 4 frames
 - People sitting close to each other will be captured in groups to preserve the in-room context
 - Frames dynamically adapts to the where people are sitting and moving
 - For a scenario with little empty space, the camera will fall back to a group overview of the room
- Support on Board and Room series with RoomOS 11+



Group & Speaker

- Ensure remote participants get the best overview of the room, and the active speaker at the same time!
- In a Webex meeting the two streams appear as individual videos in the meeting layout.
- For other meeting platforms supported on RoomOS devices, the two streams are composited into a single video, featuring the active speaker as the main video with a picture-in-picture (PiP) of the room overview in the bottom right corner.

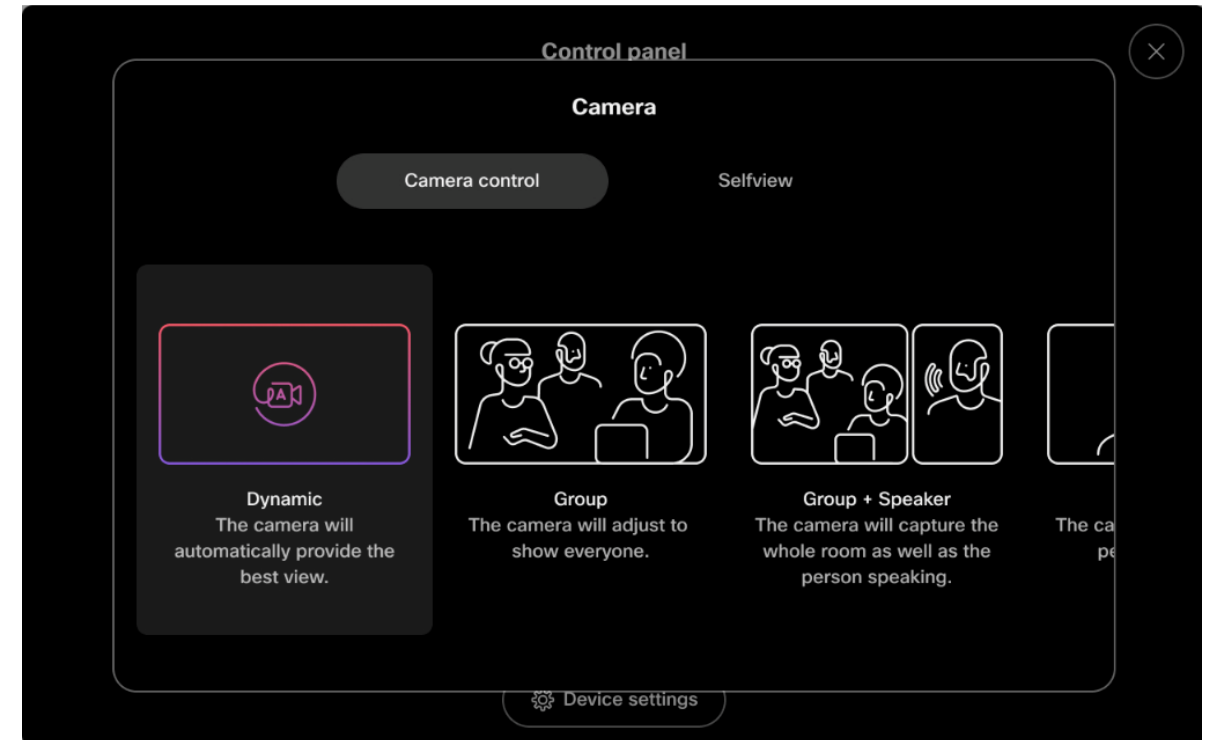


Dynamic Camera Mode – RoomOS 26

RoomOS 26

GA: Q4 CY25

- Up to and including 4 participants in the room, **Frames** is chosen.
- For more than 5 people, the system chooses **Speaker**, or **Group & Speaker** when the system can send two streams.
- **Group & Speaker** in two streams is only available in **Webex calls** on Bar Pro, Board Pro G2 and Room Kits with Quad Cams.
- This is the new **default camera mode**, with the exception of devices for which you have configured a different default camera mode
- **Speaker** and **Group & Speaker** modes also use side and front cameras in Multi-Camera setups



Cinematic Meeting Experiences – Compatibility Matrix

For your
reference

	Webex	Microsoft Teams	Google Meet	Zoom	USB Passthrough
Frames	Yes	Yes	Yes	Yes	Yes
People Focus	Yes				
Meeting Zone	Yes	Yes	Yes	Yes	Yes
Cross-View	Yes	Yes	Yes	Yes	Yes
Presenter Track	Yes	Yes	Yes	Yes	Yes
Extended Speaker View	Yes	Yes	Yes	Yes	Yes
Presenter and Audience	Yes	CVI only	No	CRC Interop Only	Yes
Group & Speaker	Two streams	Single stream	Single stream	Single stream	Single stream
Dynamic Mode	Yes	Yes	Yes	Yes	Yes

Block out the distractions and welcome pure focus

AUDIO EXCLUSION ZONES

RoomOS 26

GA: Q4 CY25

Audio Exclusion Zones allows you to block out distracting background noises or conversations outside your meeting area, ensuring that your audio stays clear and sounds professional. Experience meetings like never before—focused, uninterrupted, and productive. The best part? It's configured in seconds.

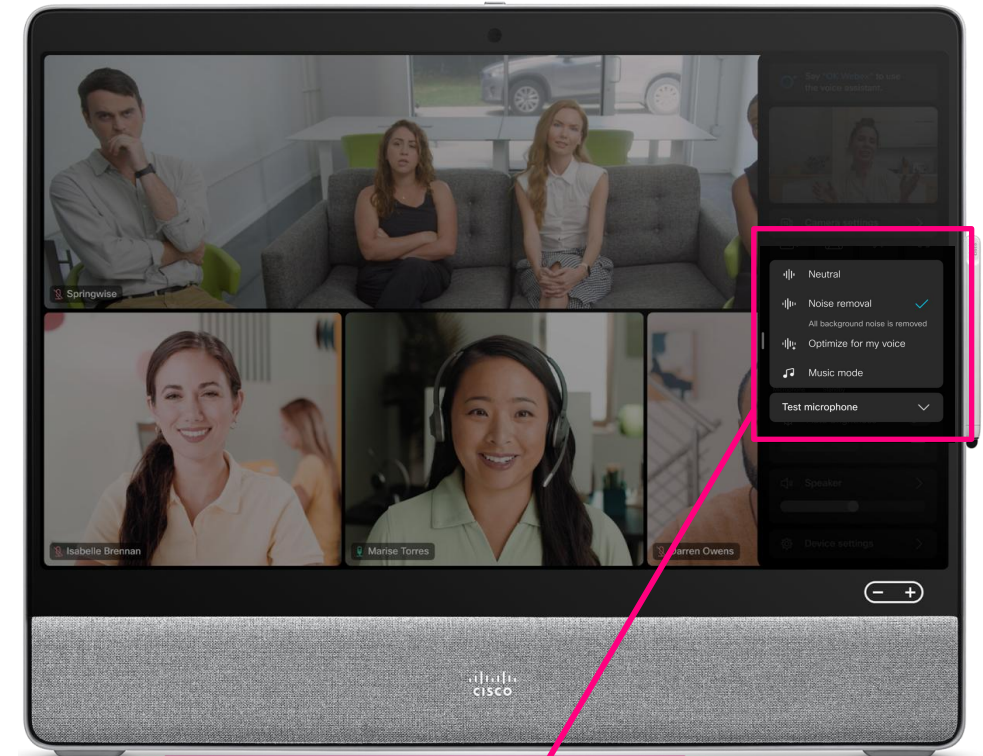
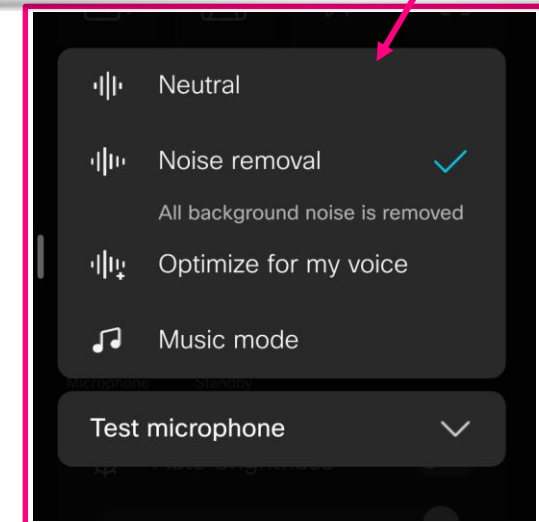


Note: This will first be available with the Cisco Ceiling Microphone Pro.



Noise Removal

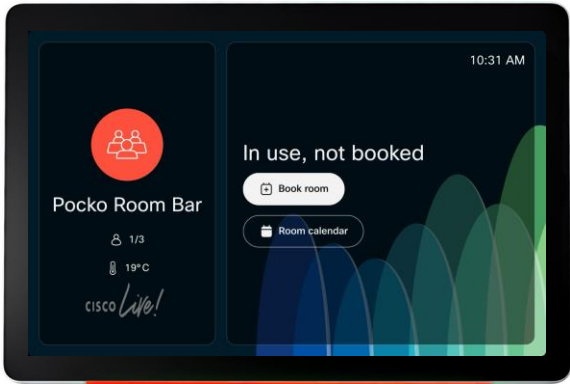
- Use noise removal to filter out distracting noises from your environment in a call.
- Remove keyboard noise, papers rustling etc
- Especially useful in a shared space or home office



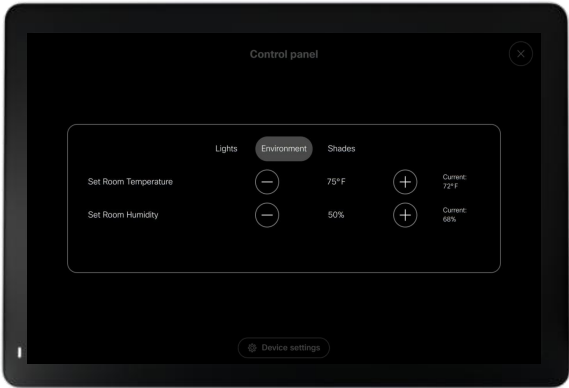
Cisco Room Navigator



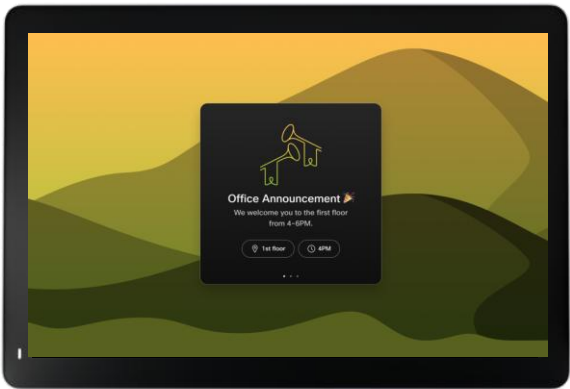
Conference Control



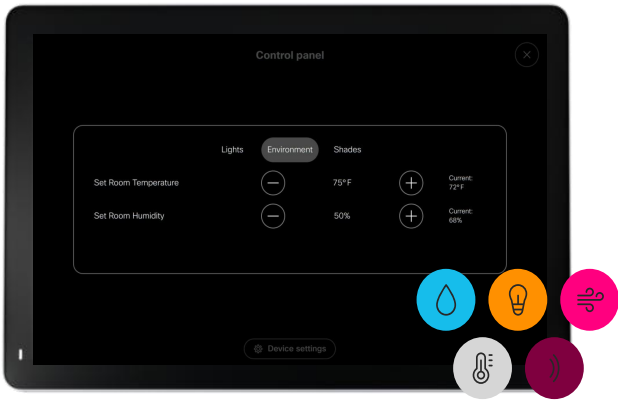
Room Booking



Room Control



Kiosk/Signage/Web



Sensors

Cisco Control Hub for IT Admins

- Easy Automated User Onboarding
- Business Insights on Device Adoption and Resources
- Device Management & Workspace Optimization
- Diagnostics and Proactive Alert Capabilities
- Enterprise Health and Readiness Assessment
- Security and Compliance Controls for Office and Home



Session: Management and Operations with the smarter Control Hub – BRKCOL-2529

Sensors

- Cisco Devices together with the Room Navigator controller support the following:
- People presence detection
 - Detects space occupancy through Ultrasound
- People Count
 - AI supported head detection
- Ambient noise and sound levels
 - Ambient noise estimation
- Temperature Control Hub analytics reporting
- People presence detection, People count and Ambient noise estimation are disabled by default. They can be enabled through Control Hub, Device WebUI or xAPI commands

Real-Time Utilisation Metrics

Devices ⓘ	● Idle	📅 Booked ⓘ	No
Occupied ⓘ	Yes	📱 Paired apps ⓘ	0
Occupants ⓘ	2		

[View Details](#)

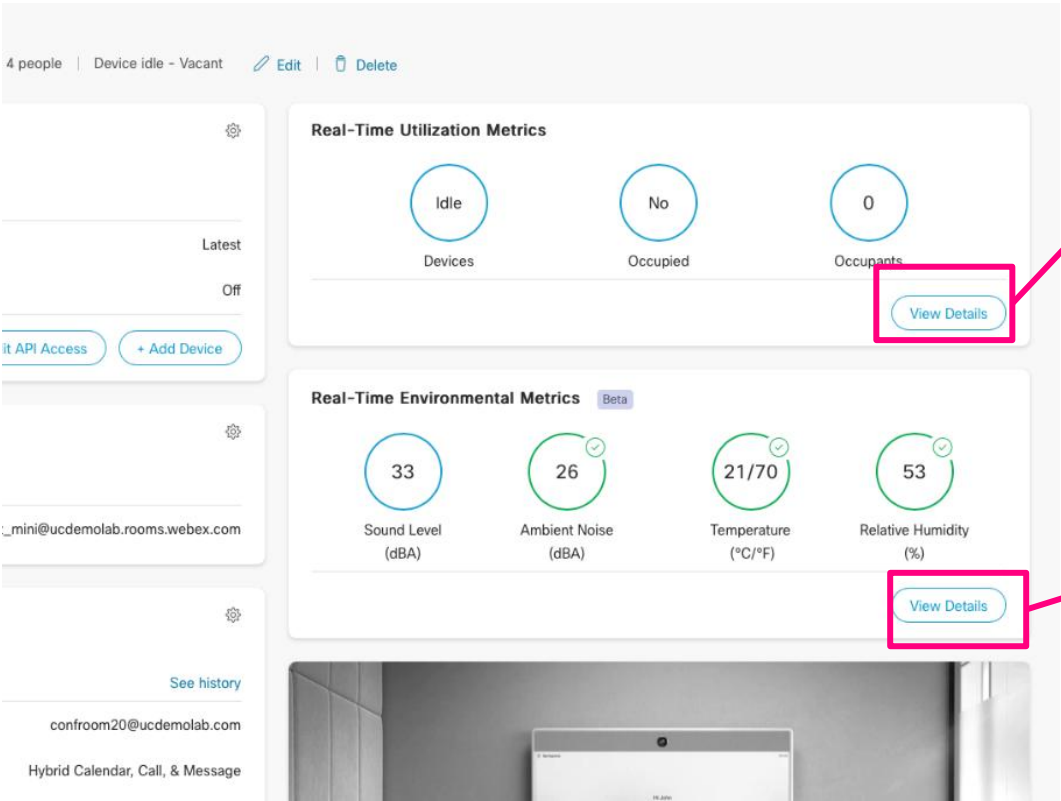
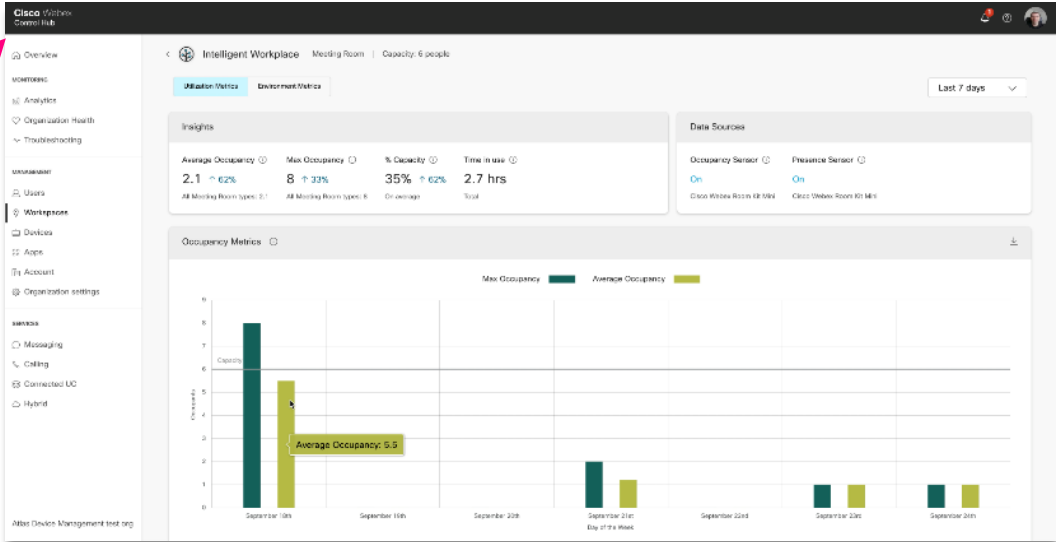
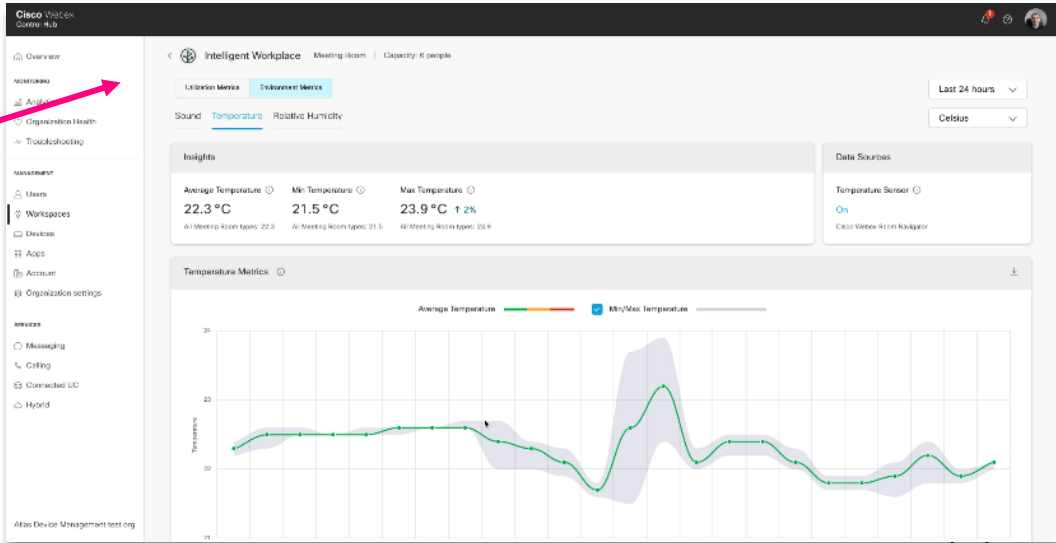
Real-Time Environmental Metrics

Sound Level ⓘ	31 dBA	⋮	Temperature ⓘ	22/71 °C/°F	⋮
Ambient Noise ⓘ	30 dBA	⋮	Relative Humidity ⓘ	37%	⋮
			Air quality (TVOC) ⓘ	1.0	⋮

[View Details](#)

Workspace Utilisation in Control Hub

- Utilisation metrics and
- Environment Metrics



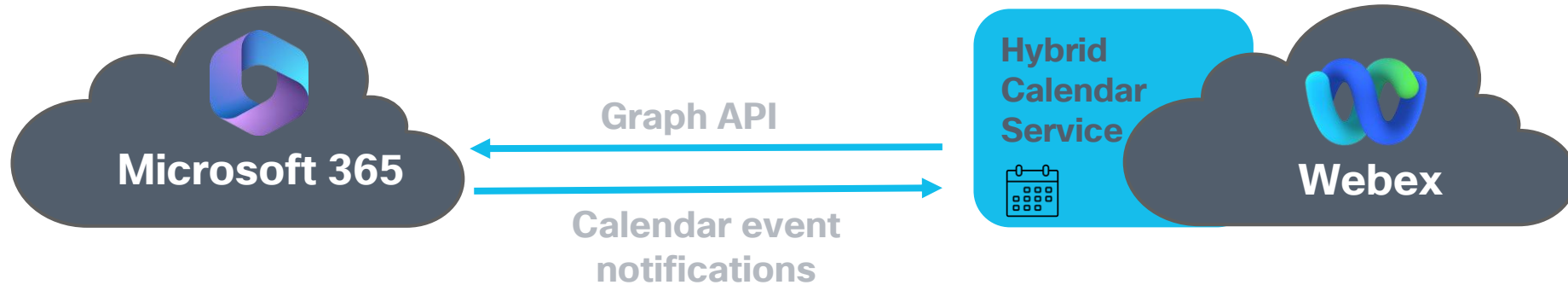
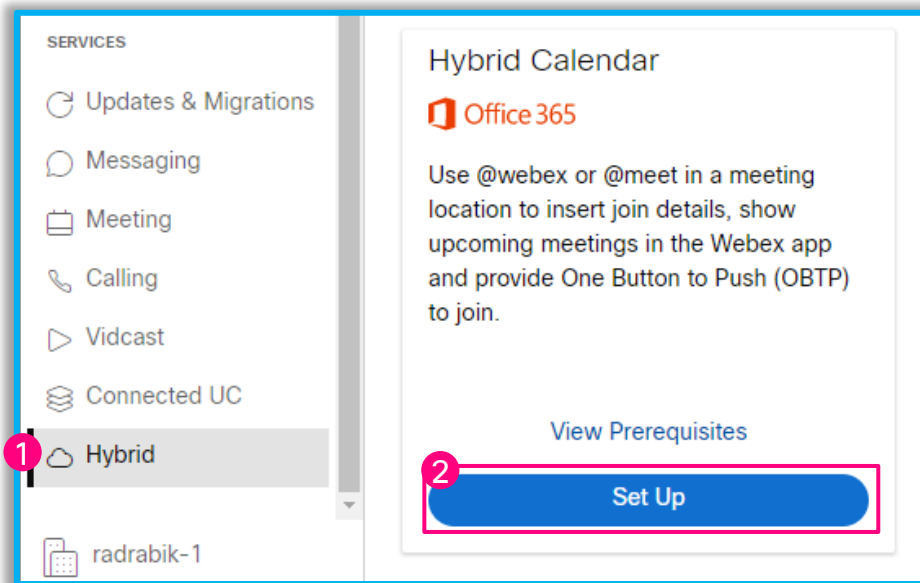
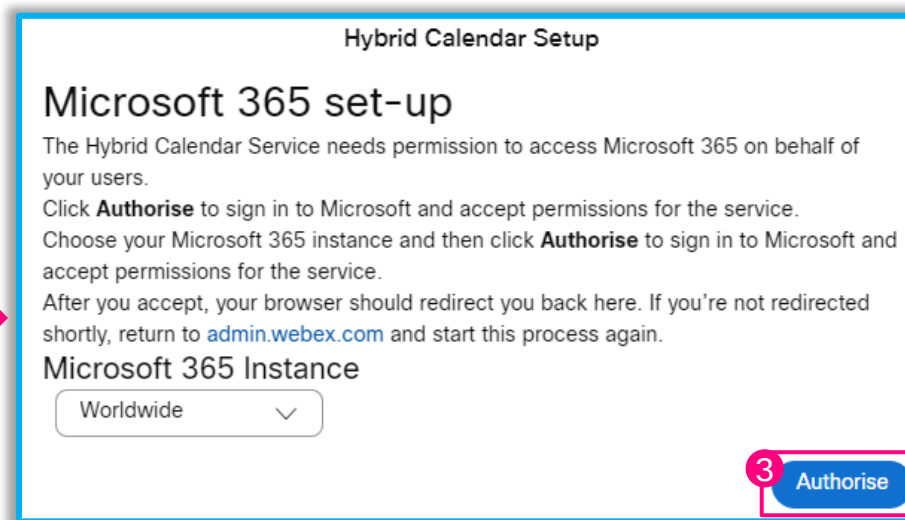
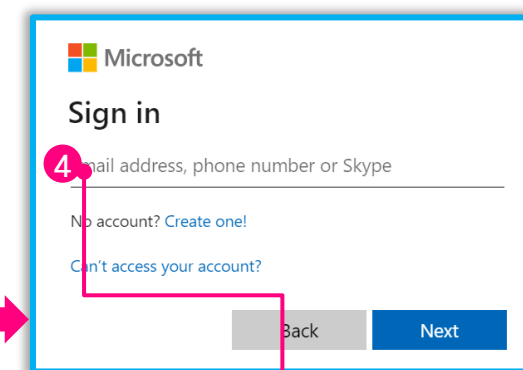
Hybrid Calendar

Make it easier for Cisco Device to join meetings with One Button to Push

- Join any Webex, Microsoft Teams, Google Meet, or Zoom meeting with the touch of a button.
- Integrate into Microsoft 365 and Google Calendars
- Users book a room resource with their meeting type and the device handles the OBTP



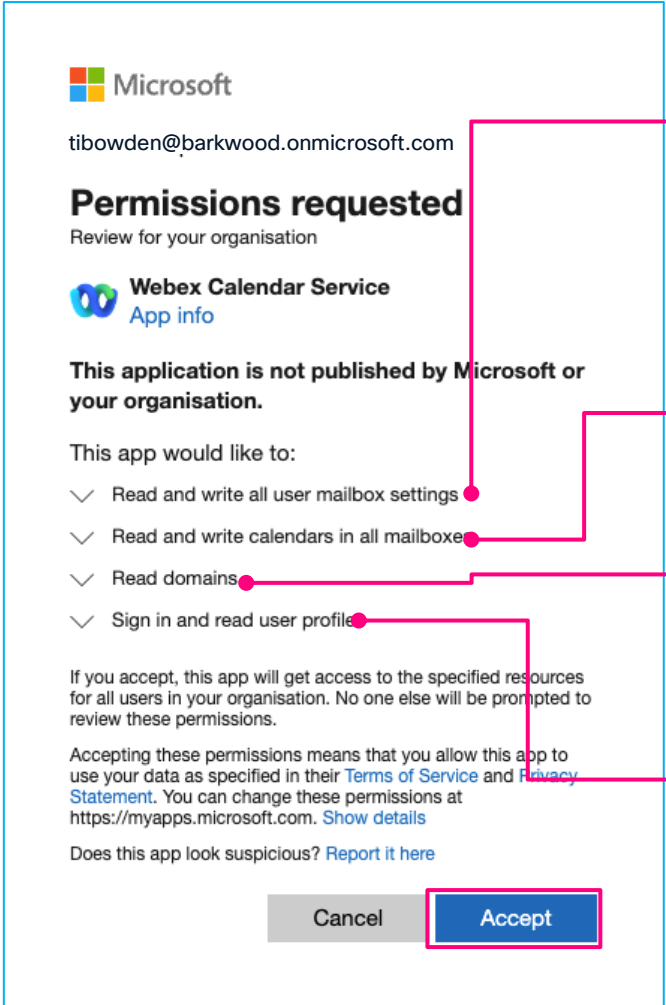
Configure – Cloud Calendar service with MS 365



Organisation's
Microsoft 365 tenant
Global administrator
account login

Configure – Cloud Calendar service with MS 365

Continued



Microsoft

tibowden@barkwood.onmicrosoft.com

Permissions requested
Review for your organisation

Webex Calendar Service
App info

This application is not published by Microsoft or your organisation.

This app would like to:

- ✓ Read and write all user mailbox settings
- ✓ Read and write calendars in all mailboxes
- ✓ Read domains
- ✓ Sign in and read user profile

If you accept, this app will get access to the specified resources for all users in your organisation. No one else will be prompted to review these permissions.

Accepting these permissions means that you allow this app to use your data as specified in their [Terms of Service](#) and [Privacy Statement](#). You can change these permissions at <https://myapps.microsoft.com>. [Show details](#)

Does this app look suspicious? [Report it here](#)

Cancel Accept

- Determine the user's language for localisation purposes
- Read out-of-office status
- Set out-of-office status (feature is not available yet)

- Update the meeting text with the join details

- Read domain properties

- Required for the other permissions listed. The Hybrid Calendar Service does not use it directly.

Configure – Cloud Calendar service with MS 365

Continued

Hybrid Calendar Setup

Test Account
Enter the Office 365 account email that you want to use to test the connection with Office 365 Calendar. The email entered must have an Office 365 licence. Cisco Webex will add a test event to the calendar associated with the email, with the subject line 'Test Event from Cisco Webex'.

Workspaces
☒ My organisation needs to be able to schedule meetings from workspaces
Enter the Microsoft 365 account email to use as the organiser for meetings scheduled from Workspaces.

Scheduling account

Cancel **Test** 1

- Test button will be disabled if no Test Account provided
- Click the test button to test the integration

Hybrid Calendar Setup

✓ Office 365 Calendar connected successfully.

People Insights
People Insights produce trends based on information about the use of products and services. When this feature is on, calendar activity helps calculate content recommendations to you and the people you work with.

Send Calendar user data to Cisco People Insights

☐

Cancel **Next** 2

Hybrid Calendar Setup

Setup Complete
You're ready to enable the Hybrid Calendar Service for your Microsoft 365 users:

- Enable them individually from the [users page](#).
- Enable them in bulk using the [CSV template](#).

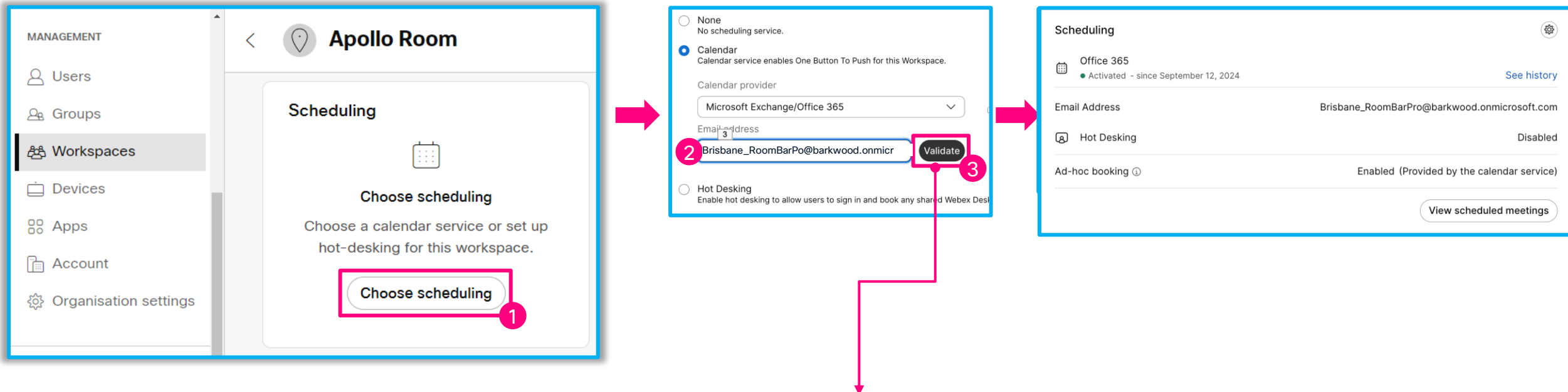
For more information, go to [Collaboration Help](#).

Done 3

Configure – Cloud Calendar service with MS 365

Enable Hybrid Calendar for Devices/Workspaces

Under Management > **Workspaces** > Select Workspace



- Webex Rooms in “**shared mode**” requires a **resource mailbox* (Type: Room)**
- Webex Rooms in “**personal mode**” will sync with the device owner’s mailbox

* For Shared mode, make sure that you disable comment deletion for OBTP to work consistently:
Set-CalendarProcessing -identity "room" -DeleteComments \$false

Configure – Cloud Calendar service with MS 365

Enable Hybrid Calendar for Devices/Workspaces – Continued

Calendar (tibowden@cisco.com)

99 BRKCOL-2525

1

Brisbane_RoomBarPro@barkwood.onmicrosoft.com

14/10/2025

14

from

11:30 am

to

12:15 pm

All day

Does not repeat

2

@webex



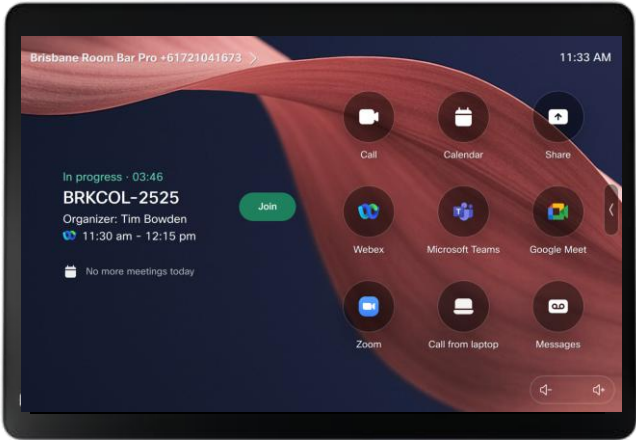
In progress · 03:46

BRKCOL-2525

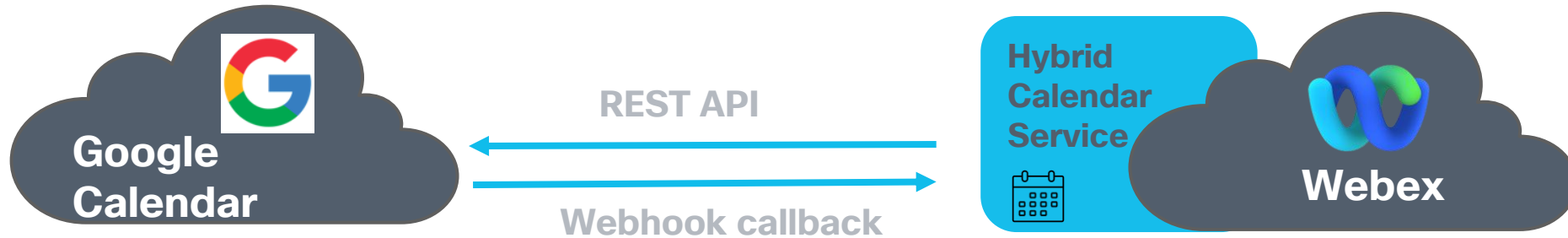
Organizer: Tim Bowden

11:30 am – 12:15 pm

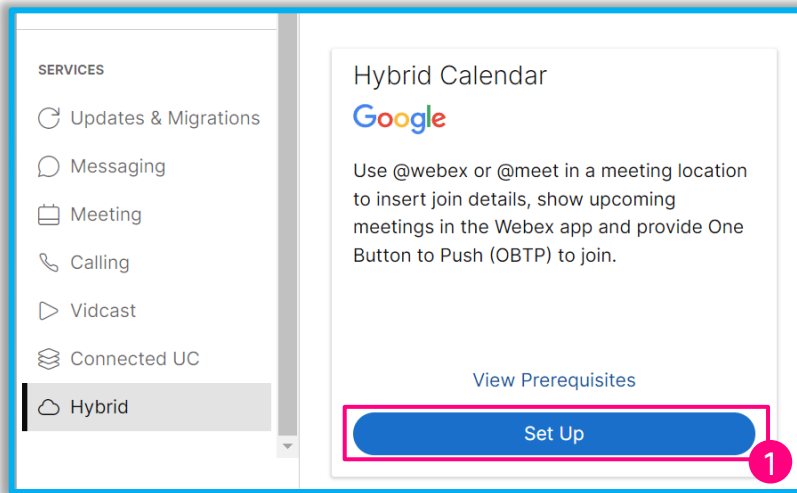
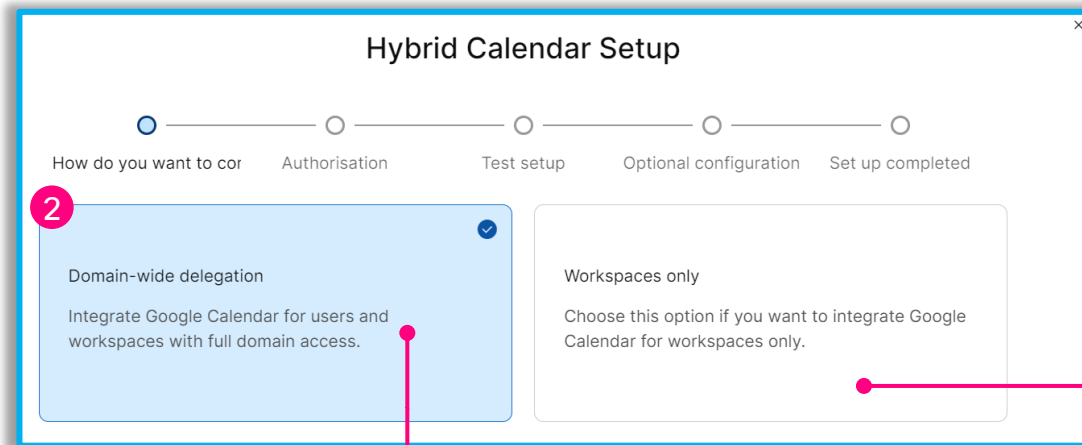
Join



Configure – Cloud Calendar service with Google



Webex Control Hub > Services > Hybrid



- Access to all rooms and user calendars
- Registers Webex as **app** with Google - admin must copy **client ID** and **scopes** from Control Hub to Google Admin console

- Access room calendars only
- Uses **Admin account**
- Reauthorisation needed every 180 days per Google's policy

Configure – Cloud Calendar service with Google

Things to consider

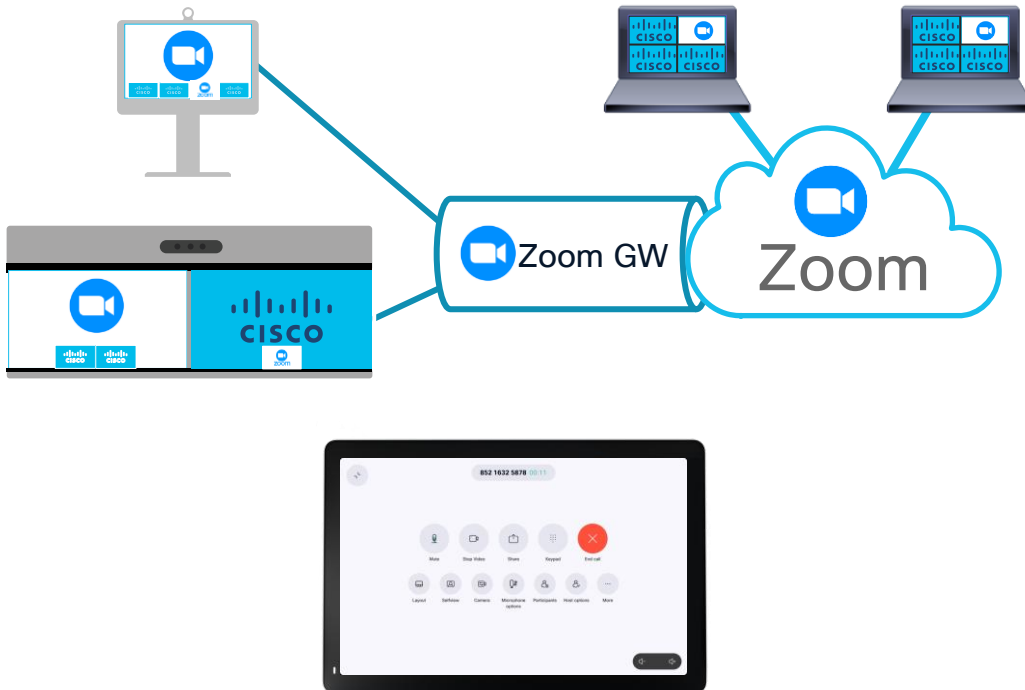
- **Webex room devices** must have email address that matches Google room resource format
 - Older format (**company.com** must be verified in Control Hub)
company.com 3130313639353739333032@resource.calendar.google.com
 - New format (no domain verification needed)
c_0803348627605091471198@resource.calendar.google.com
- Remove **Google Hangouts** information in meeting events

Joining a Zoom Meeting

RoomOS and Zoom Experience

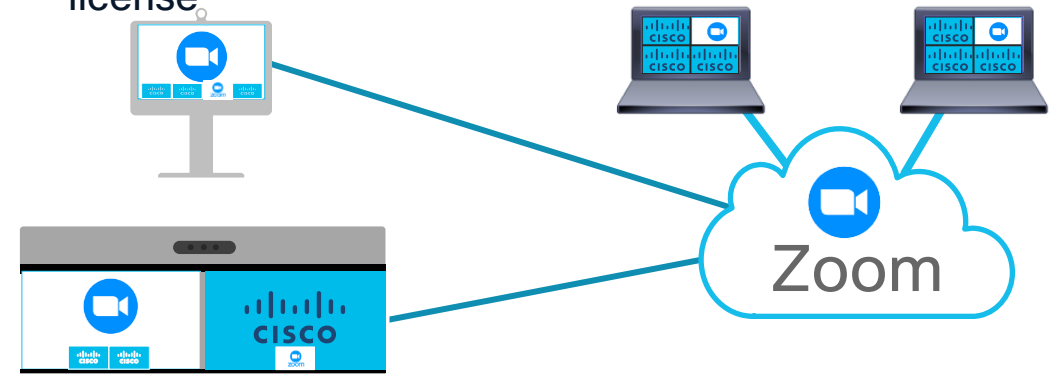
Joining Zoom meetings via SIP

- Current experience on RoomOS and MTR
- Requires CRC license (paid) or SIP Video Interop (free)
- Improved UX for Cisco devices



Zoom for Cisco Rooms (in Beta)

- New experience for RoomOS 26
- Not available for MTR devices
- Native ZoomOS experience
- Licensing requirements:
 - Device needs CH Room registration license (not available on-prem)
 - Device can join in **guest mode** without Zoom Room license
 - Device can join in **signed-in mode** with a Zoom Room license



SIP Interop Experience on Zoom

Zoom Video Interop for Meetings vs Zoom CRC (for MTR devices or RoomOS 11)

- **Basic SIP interoperability** is included at no additional cost with Zoom paid subscriptions
- It requires manual activation
- For enhanced features, **Zoom CRC** licenses is required
- CRC is licensed per concurrent meeting

Feature	Video Interop for Meetings	CRC
Protocols supported	SIP	SIP and H.323
Max resolution	720p	1080p
Max displays	1	2
Supported webinar roles	Attendee only	Attendee and Panelist roles
Support room management	N	Y
Invite a SIP/H.323-room system to a Zoom meeting	N	Y

<https://support.zoom.us/hc/en-us/articles/14599848014477>

Zoom for Cisco Rooms - New

GA: By end of CY25

Requires
RoomOS 26

Fully Featured In-Meeting Experience:

Users can now enjoy familiar Zoom in-meeting features with cinematic meeting experiences and quality delivered by Cisco.

Flexible Access Modes:

Guest Mode

No Zoom license required, join as a guest.

Signed-in Mode

Full featured Zoom Meetings with a Zoom license, including the ability to host and start meetings.

Supported devices:

- Devices must be registered to Control Hub to use this integration, requiring an appropriate license.
- On-premises devices will not be able to take advantage of this app- based approach but can continue to leverage the existing Zoom CRC-based experience
- Cisco Room Bar, Cisco Room Bar Pro, Cisco Board Pro, Cisco Board Pro G2, Cisco Desk Pro, Cisco Room Kit EQ, Cisco Room Kit EQX and Cisco Room Kit Pro



Signed-in vs. Guest Mode

Key feature comparison

	Signed-in experience	Guest experience
Zoom License Required	Yes	No
Multi-Screen Support	Up to 2	Up to 2
Video Quality	1080p	720p
Host Zoom Instant Meeting	Yes	No
Join as host	Yes	No
Zoom Webinar support	Yes	Participant Only

Guest Experience - Setup

Enable Zoom Interoperability setting in Control Hub:

There will be two options for Zoom for Cisco Rooms enablement:

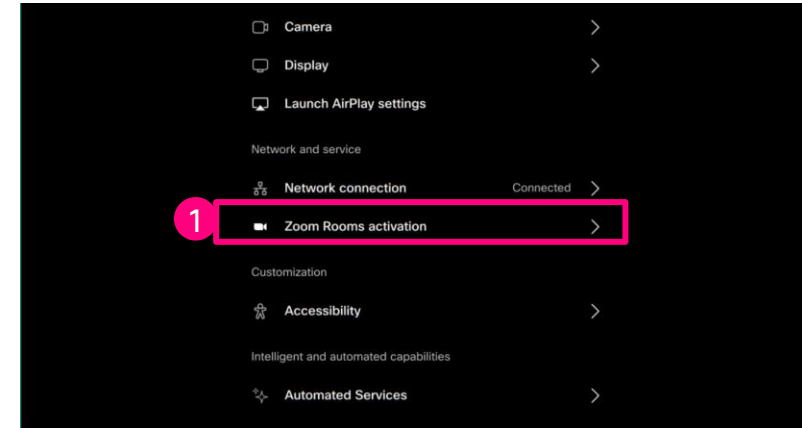
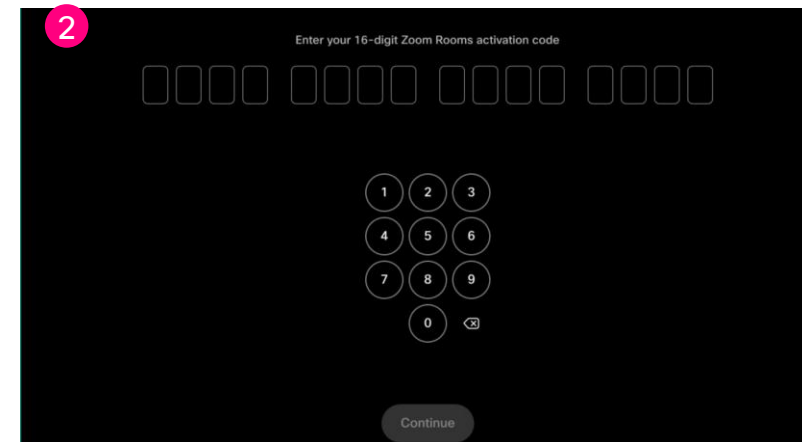
- Today you can enable individual devices by first ensuring Enable Zoom is turned on in Control Hub. Then you can enable by navigating to the Configuration Settings on individual devices and enable the **Zoom -> AppExperience -> Mode config to Auto**.
- Note: allow up to 30 minutes for the toggle and experience to be configured on the device after saving settings.
- In the future, you will be able to enable all your devices that are capable in the organization by checking a Zoom app experience box below the Enable Zoom toggle in Control Hub.
- You can disable this experience organization wide by unchecking this box. Note: You can still enable/disable devices individually by setting the Zoom AppExperience Mode config per device.

The screenshot shows the Cisco Control Hub interface. On the left sidebar, under the 'MANAGEMENT' section, the 'Devices' link is highlighted with a red circle '1'. The main content area shows the 'Devices' settings page with a red circle '2' next to the 'Settings' tab. Under the 'Meeting providers' section, the 'Enable Zoom' toggle is turned on and has a red circle '3' next to it. Below this, there is a 'Required device configuration' section with the following bullet points:

- Microsoft Teams and Google Meet require Web Engine to be turned on. The setting can be found in device configurations: Web engine > Mode
- For Webex Edge devices, [Allow Control Hub to manage configurations](#) must be enabled.
- Official Web Engine support will exist in supported software versions listed under the [Devices Software tab](#)

Signed in Experience - Setup

- You will need to obtain a Zoom Activation Code from your Zoom admin portal to use for activation first.
- In the Zoom admin portal go to Room Management -> Zoom Rooms -> Add Room
 - Enter the details for the device
 - And finally receive your 16 digit Zoom Activation Code
- There will be three options to activate your device:
 - 1) On the Navigator > Device Settings > Zoom Rooms activation
 - 2) through API - xCommand Zoom Registration Start ActivationCode: <activation-code>
 - 3) Control hub (Not yet available)
- Now you should be activated and see the Zoom Room in your Zoom Admin Portal!



Signed in Experience - Setup

- Scope of supported features in Zoom Admin Portal to be updated at General Availability

zoom

Products

Solutions

Resources

Plans & Pricing

ScheduleJoinHostWeb App

Recordings & Transcripts

Summaries

Clips

Scheduler

Settings

Data & Privacy

Reports

ADMIN

> Plans and Billing

> User Management

> Team Chat Management

> Device Management

> Room Management

Zoom Rooms

Calendar Integration

Zoom Rooms

Account Settings

Service Logs

1 Room(s)0 License(s) AvailableAdd LocationHelp

Devices

Rooms

Q Search

Upgrade

Export

All Platform OS

All Managed Devices

All Zoom Device Types

All Zoom Partner Devices

All Status

All Versions

	Device Name	Platform OS	App Version	Assignment	MAC Address	
☐	<div><div></div><div>Brisbane Room Bar Pro</div></div>	Android 13	6.6.0 (4214) Beta	Brisbane Room Bar Pro	-	<div>Edit...</div>
☐	<div><div></div><div>Brisbane Room Bar Pro Cisc...</div></div>	Android 13	6.5.5 (20332)	Brisbane Room Bar Pro	-	<div>Edit...</div>

Go to

1

<

1

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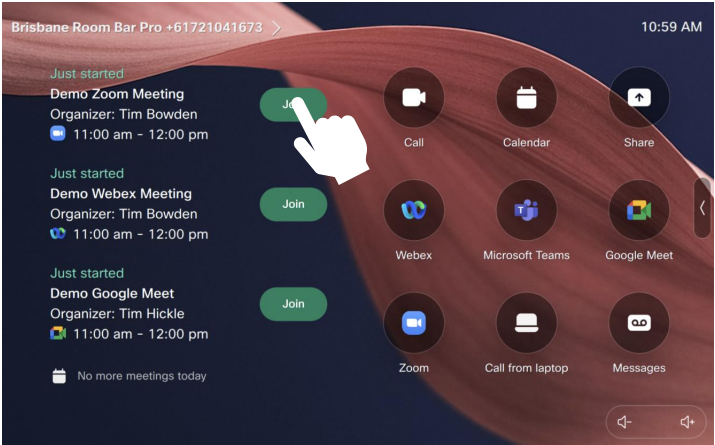
10/page

2 result(s)

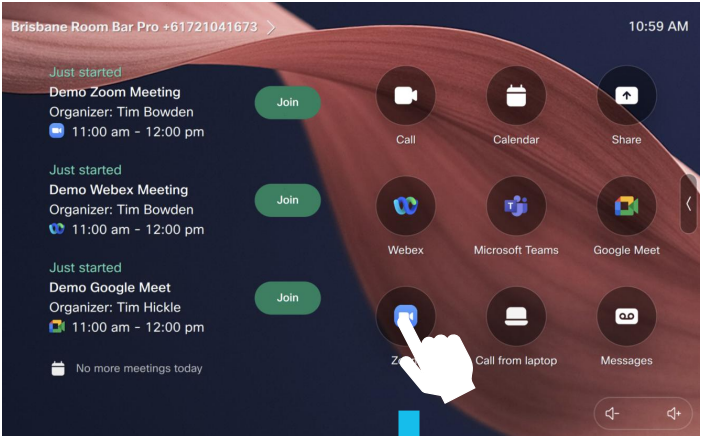
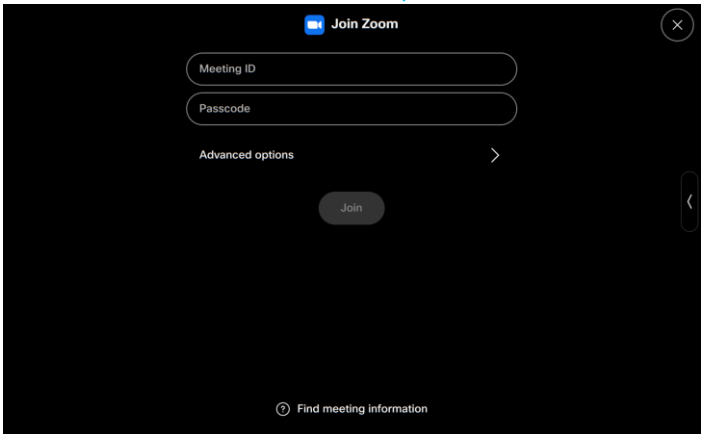
Join methods for Zoom

Guest Experience

One Touch Join



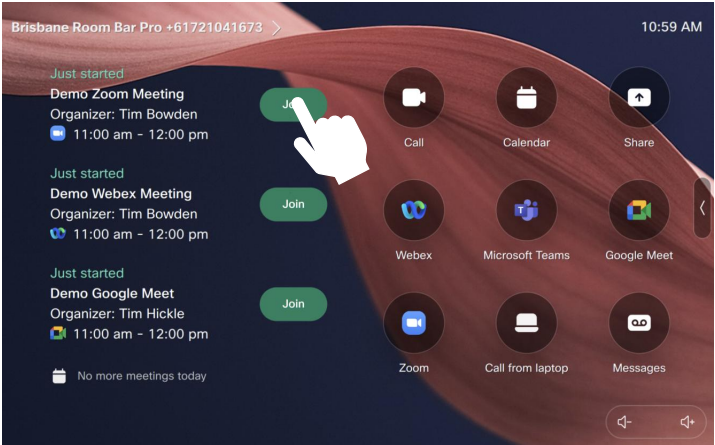
Join with meeting ID



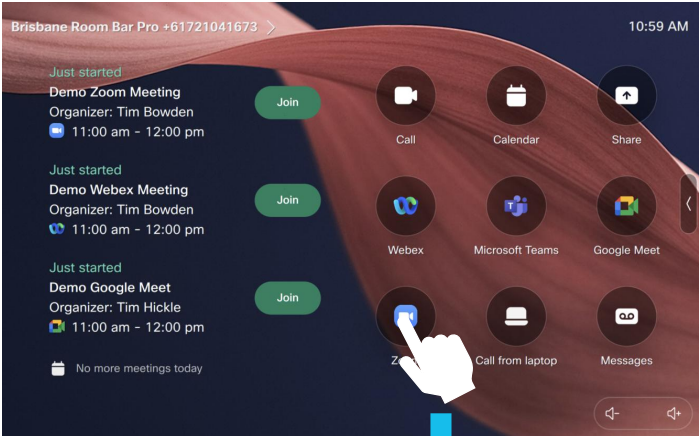
Join methods for Zoom

Signed-In Experience

One Touch Join

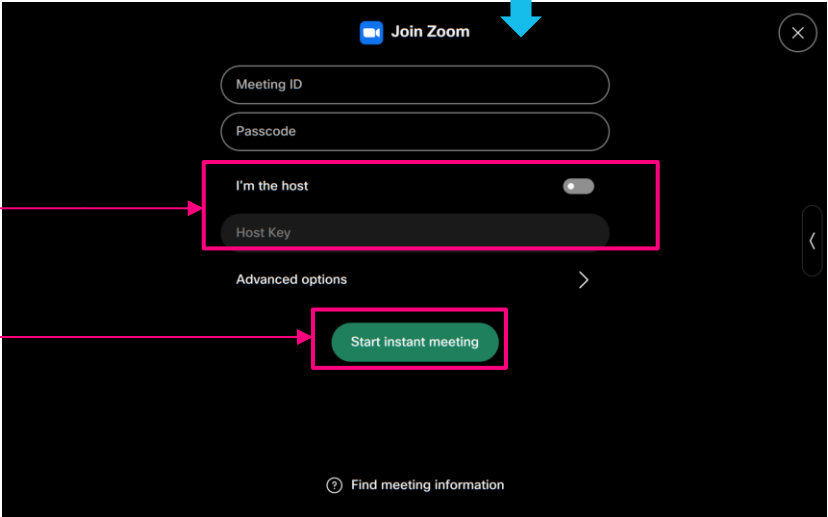


Join with meeting ID



Option to enter Host Key

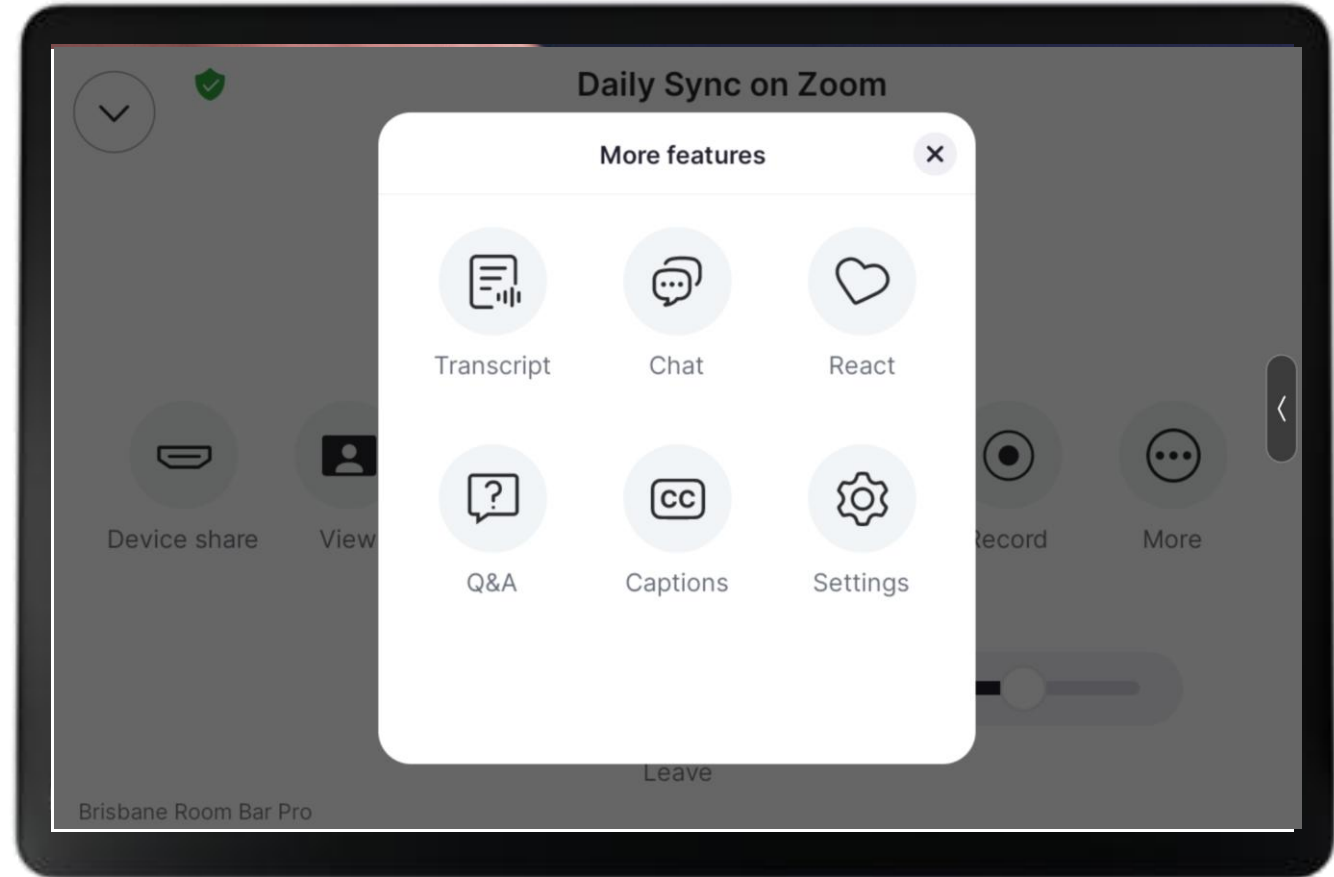
Start Instant Meeting



Zoom In Meeting Experience

Control UI

- Room Navigator Zoom Room UI when in a meeting
- Native In Meeting Controls
- Camera Control
- Participants
- Recording
- Chat / Reactions / Captions / etc
- Leave Meeting returns to Cisco Room UI



Zoom In Meeting Experience

With Cisco Devices users will have the ability to share the way they're most comfortable with. From physical connections (HDMI/USB-C) to industry wireless sharing technologies including Airplay and Miracast. Zoom Direct Share will also be available for customers using the signed-in experience.

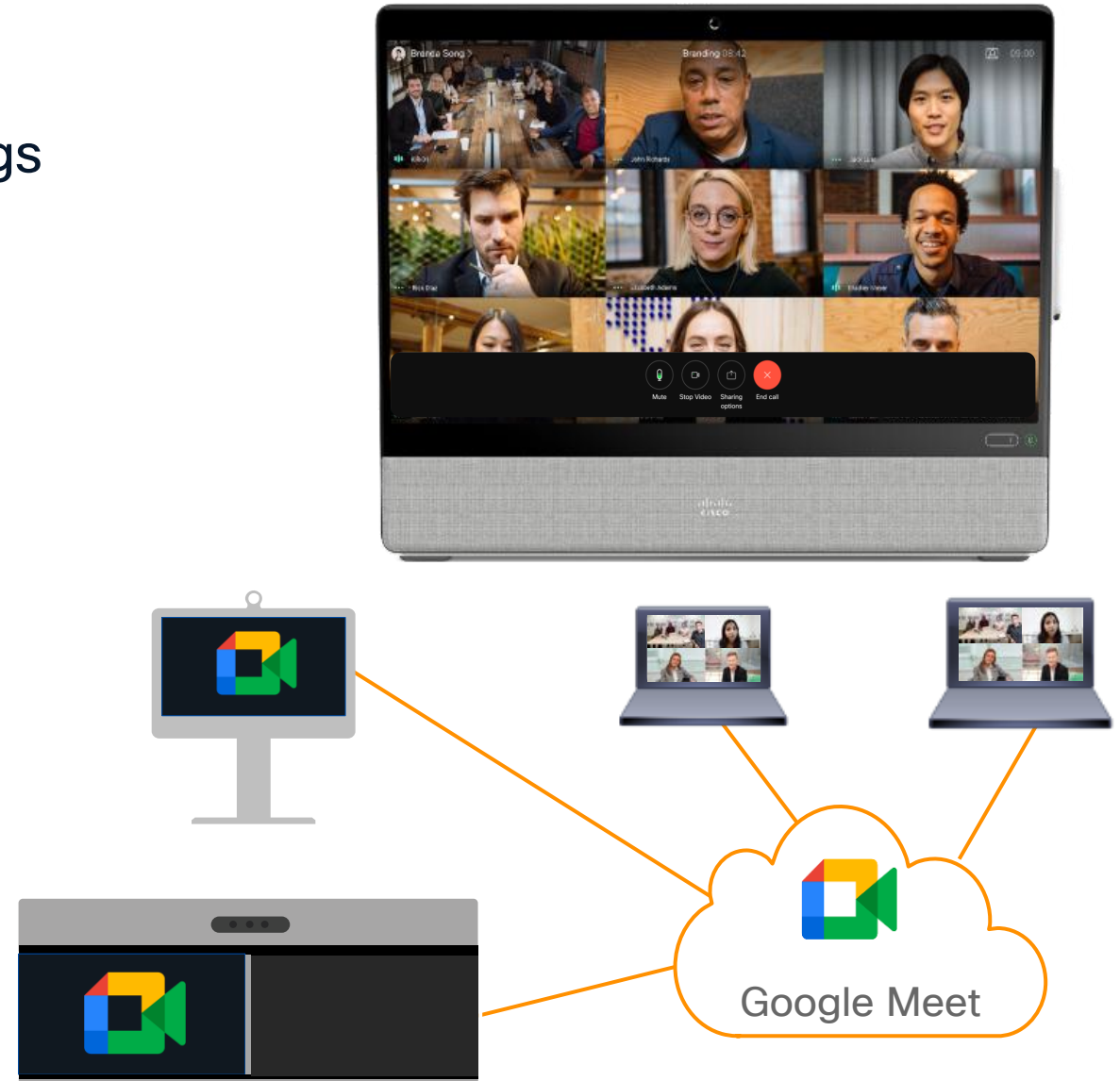


Joining a Google Meeting

Cisco video devices joining Google Meet Meetings

High Level Architecture

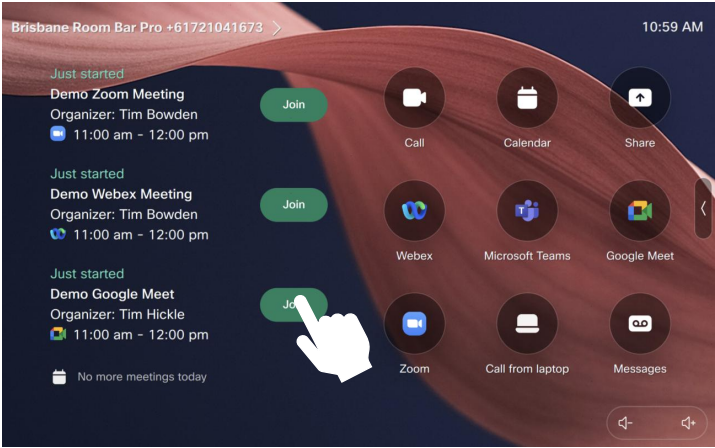
- Cisco Devices join Google Meet Meetings using **WebRTC**
- **OBTP** and an embedded Join button to join by meeting ID supported



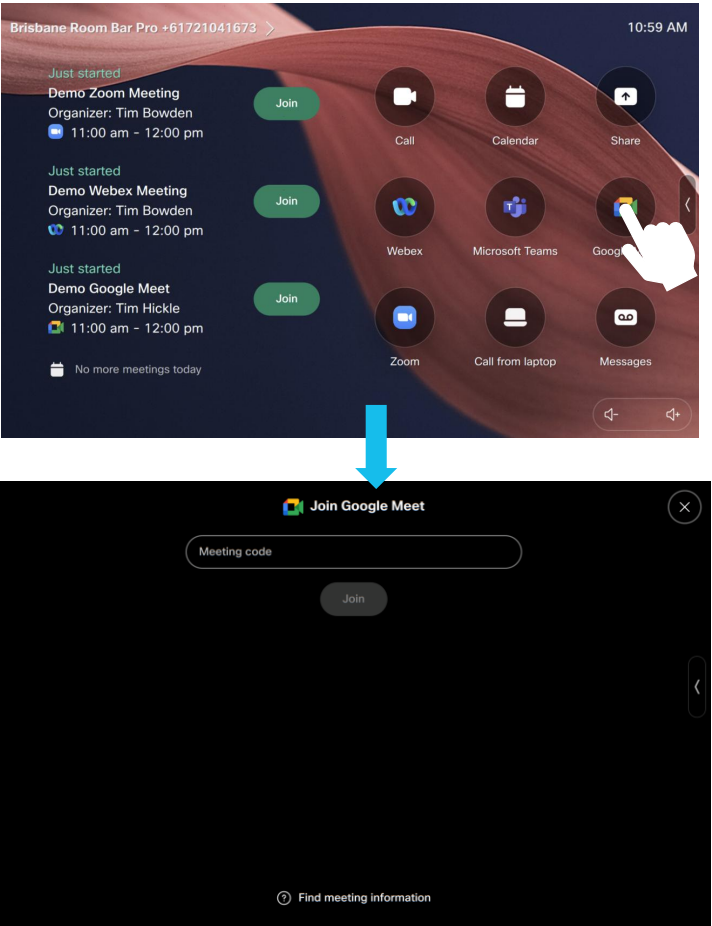
Join methods for Google Meet interoperability

From Cisco video devices

One Touch Join



Join with meeting ID

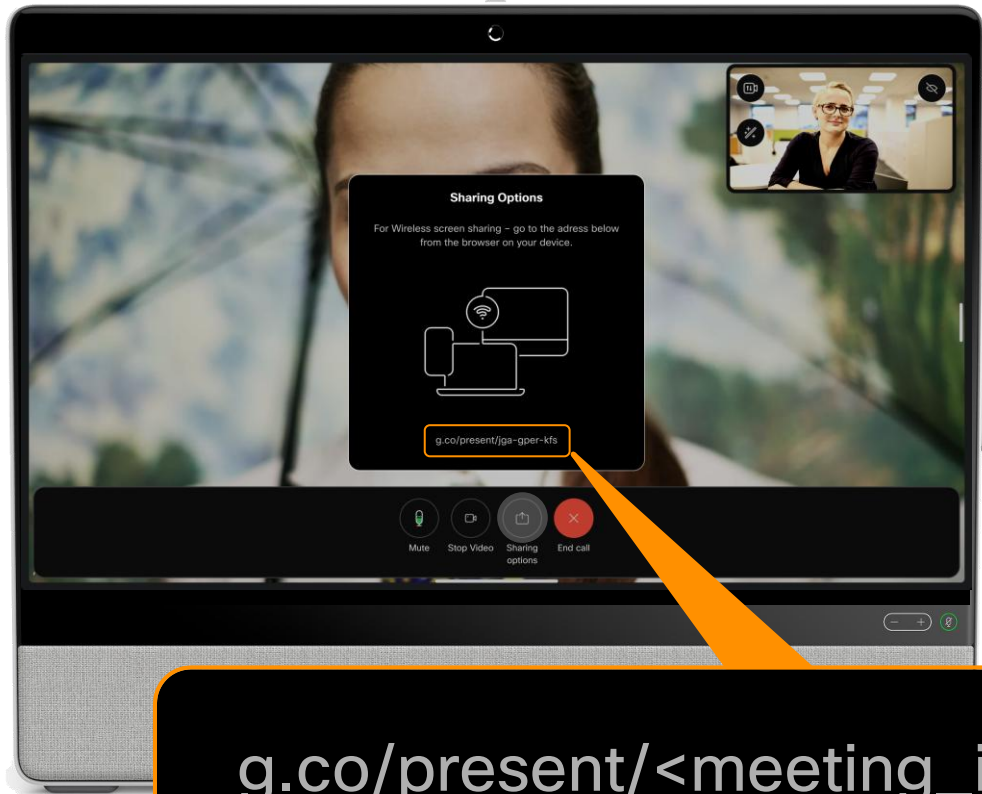
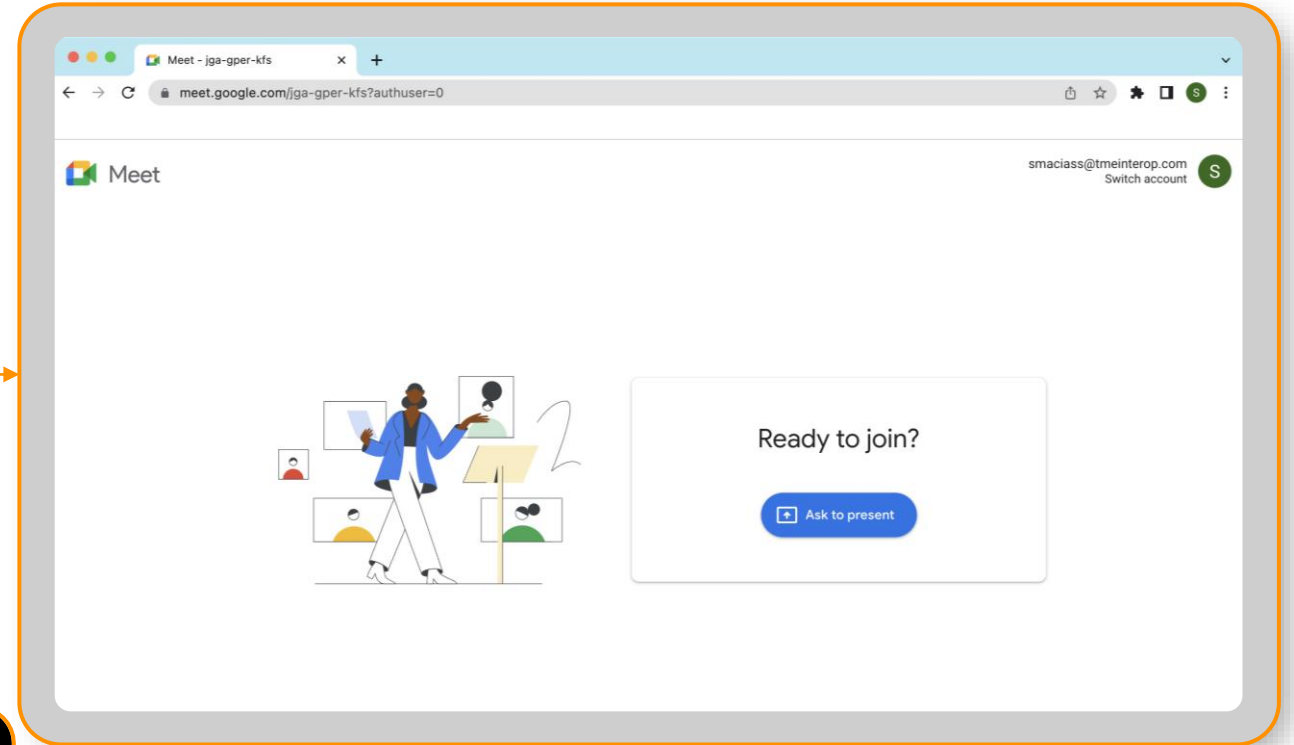


Google Meet Layout

- 3x3 grid view
 - Google layout is 3x3 grid view per default
- Fixed layout
 - Layouts cannot be changed on Google Meet meetings
- Single Screen
 - Dual screen is not supported today. Plans are to support it in the future



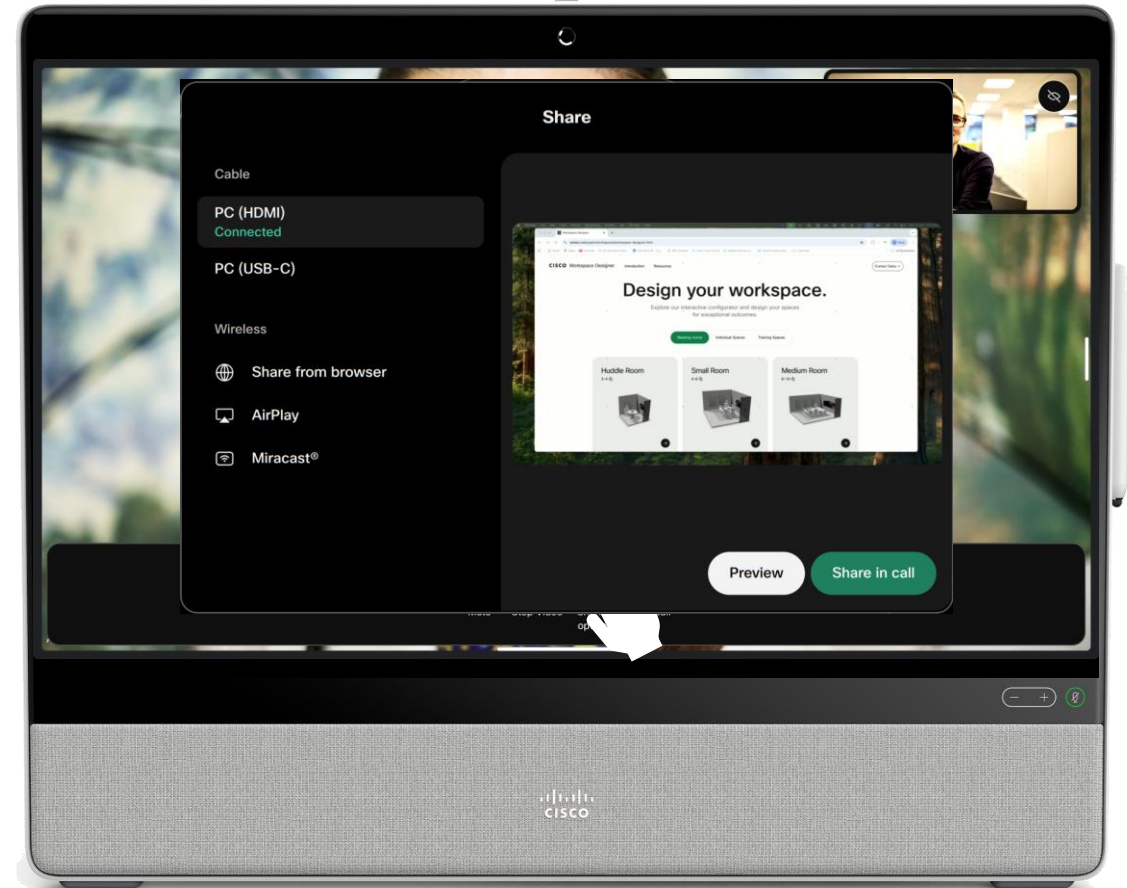
Content sharing - previously



`g.co/present/<meeting_id>`

Bidirectional Content Sharing on Google Meet meetings

- You can now share in the Google Meet meeting with cabled share, Miracast, or AirPlay, depending on how you administrator has configured the device.
- Sharing from the device is not supported on Board and Board S Series, Room 55, Room 70, Room Kit, Room Kit Mini, and Room Kit Plus.



Enable Google Meet interoperability

Google Meet interoperability can be turned on under the device settings in Webex Control Hub.

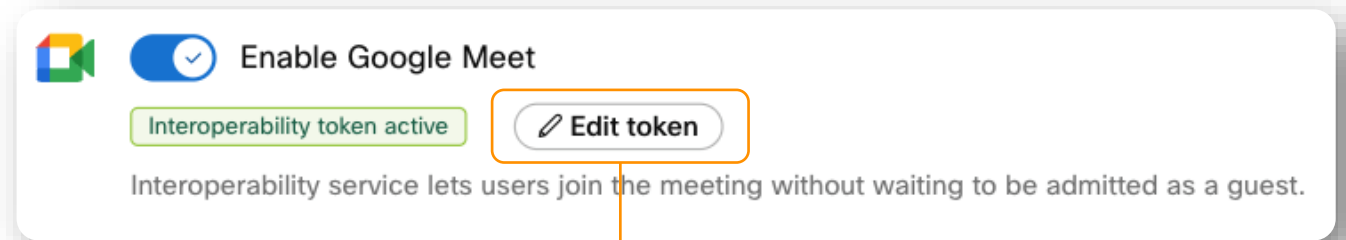
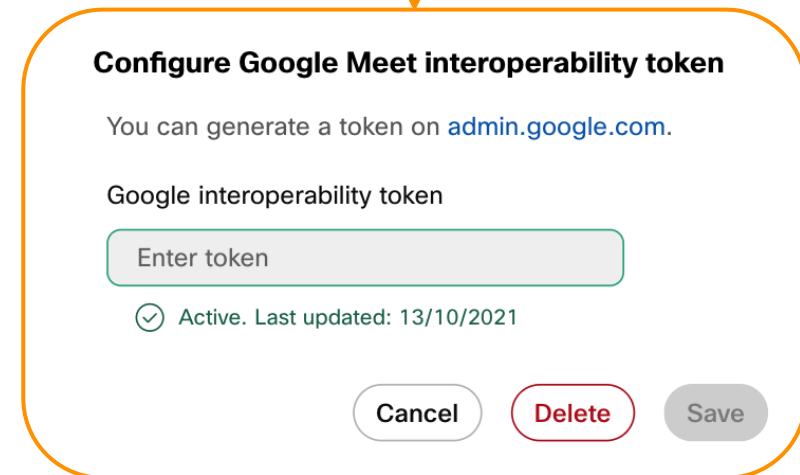
This will enable WebRTC for Google Meet and the Google Meet joining button on the devices

The screenshot shows the Webex Control Hub interface. The left sidebar contains a navigation menu with sections: Overview, Alerts center, MONITORING (Webex Experience, Analytics, Troubleshooting, Reports), MANAGEMENT (Users, Workspaces, **Devices**, Apps, Account, Organization Settings), and SERVICES. The 'Devices' section is highlighted with a red circle labeled '1'. The main content area is titled 'Devices' and has a sub-header 'Meeting providers'. The 'Settings' tab is selected, indicated by a red circle labeled '2'. Under 'Meeting providers', there are three toggles: 'Enable Microsoft Teams', 'Enable Google Meet' (highlighted with a red box and a red circle labeled '3'), and 'Enable Zoom'. The 'Enable Google Meet' toggle is turned on. Below the toggles, there is a status 'Interoperability token active' and a button 'Edit token'. A description states: 'Interoperability service lets users join the meeting without waiting to be admitted as a guest.' Below this, there is a section 'Supported devices' with a toggle 'Enable Zoom' turned on. A description states: 'Enable devices to join meetings hosted by third party providers. This gives the individual services access to the device camera and microphone. Cisco Webex services will provide calendar integration and easy join through One Button to Push on the devices.' At the bottom, there is a section 'Required device configuration' with a list of requirements: 'Microsoft Teams and Google Meet requires Web Engine to be turned on. The setting can be found in device configurations: Web Engine > Mode', 'Zoom requires RoomOS 11 UI Experience to be enabled.', and 'For Webex Edge devices, Allow Control Hub to manage configurations must be enabled.'

Lobby Bypass for Google Meet

Lobby bypass can be configured in Webex Control Hub by adding a token generated from Google.

When enabled, trusted participants are automatically admitted on Google Meet meetings



Get the token for Google Meet interoperability

The required token must be added on the Google Admin site, and it will be listed in the Interoperability tokens list

Interoperability tokens

An interoperability token lets third-party devices that support Meet interoperability connect to Meet calls without waiting to be admitted by the host. [Learn more about Meet interoperability](#)

In addition, a token is required to authenticate interoperability gateways, including the Pexip Infinity gateway, for your Google Workspace domain. Inbound gateway interoperability is managed in [Gateway interoperability](#). [Learn more](#)

ADD A TOKEN

Type	Name	Generated on	Trusted devices ?
Cisco	WebRTC	Nov 29, 2022	On
Cisco	NewToken	Mar 20, 2022	On
Pexip	CiscoWebexInterop	Oct 13, 2021	On
Cisco	GuestAdmit	Mar 11, 2022	On

Type	Name	Generated on	Trusted devices ?
Cisco	WebRTC	Nov 29, 2022	On

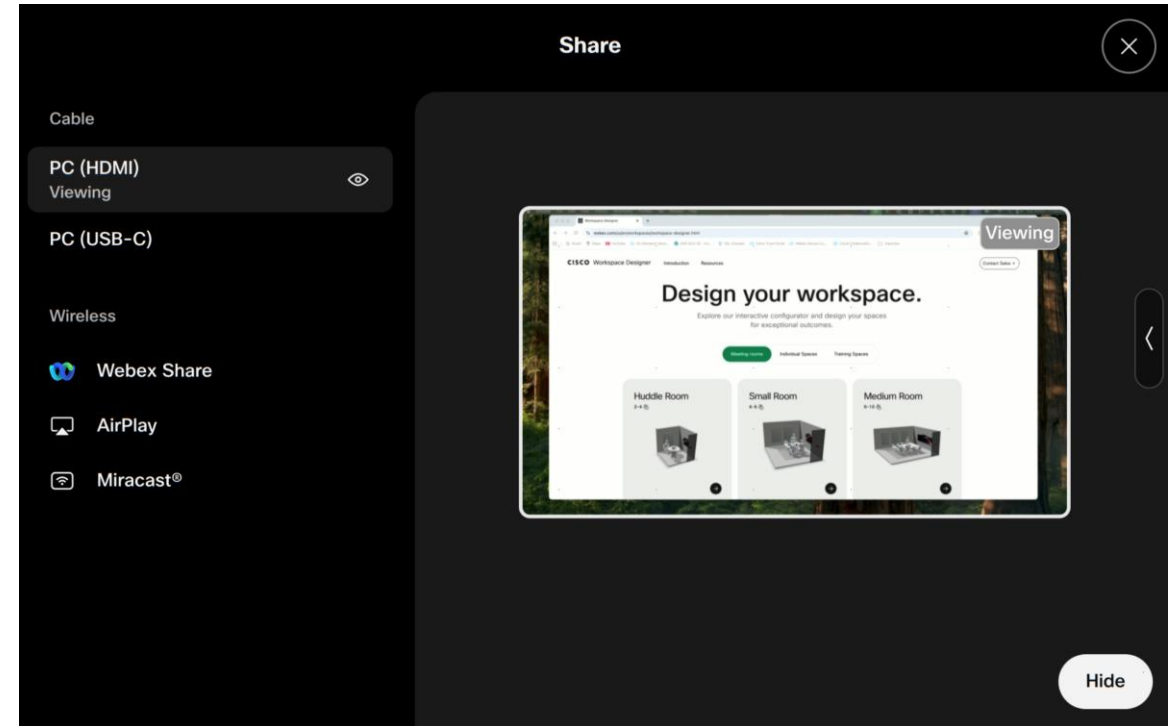
Content Sharing

Make content sharing simple and intuitive



Wired content sharing.
HDMI & USB-C

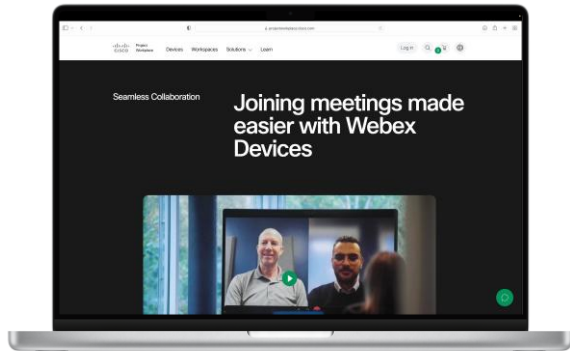
New Share Experience in RoomOS 26



Wireless content sharing
Miracast, Apple Airplay, Webex*

AirPlay Content Sharing

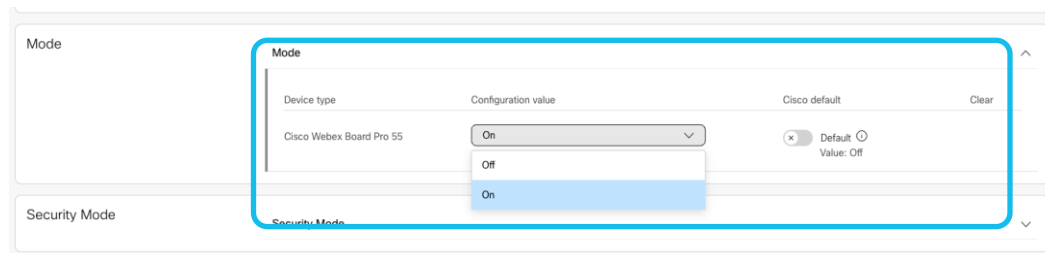
- AirPlay allows the sharing of content from an AirPlay device to a Cisco device with quality and integrity.
- AirPlay devices would include:
 - iPhone
 - iPad
 - Mac
- Latest iOS/iPadOS/macOS is always recommended.



AirPlay Deployment Options – Control Hub

Shared Mode systems

- To enable AirPlay on a Shared Mode system, an Administrator will need to enable the service through Control Hub.
- *Devices> [device name]>All Configurations>Video>Input>AirPlay Mode*
- The Default Value is Off. Switching to On will automatically enable the service on the given Cisco device.
- Please note to aid device discovery that Bluetooth® should also be enabled. This applies to **both** Shared and Personal mode systems.



Personal Mode systems

- To enable AirPlay on a Personal Mode system, an Administrator will need to enable the service through Control Hub.
- *Devices> [device name]>All Configurations>Video>Input>AirPlay Mode*
- The Default Value is Off. Switching to On will automatically enable the service on the given Cisco device.
- The end user has the ability from the Cisco device settings menu to then further disable and re-enable the service.
- From the home screen of the Cisco device open *Device settings>Open AirPlay settings.*
- This option can only be seen once the Administrator has enabled the service through Control Hub.

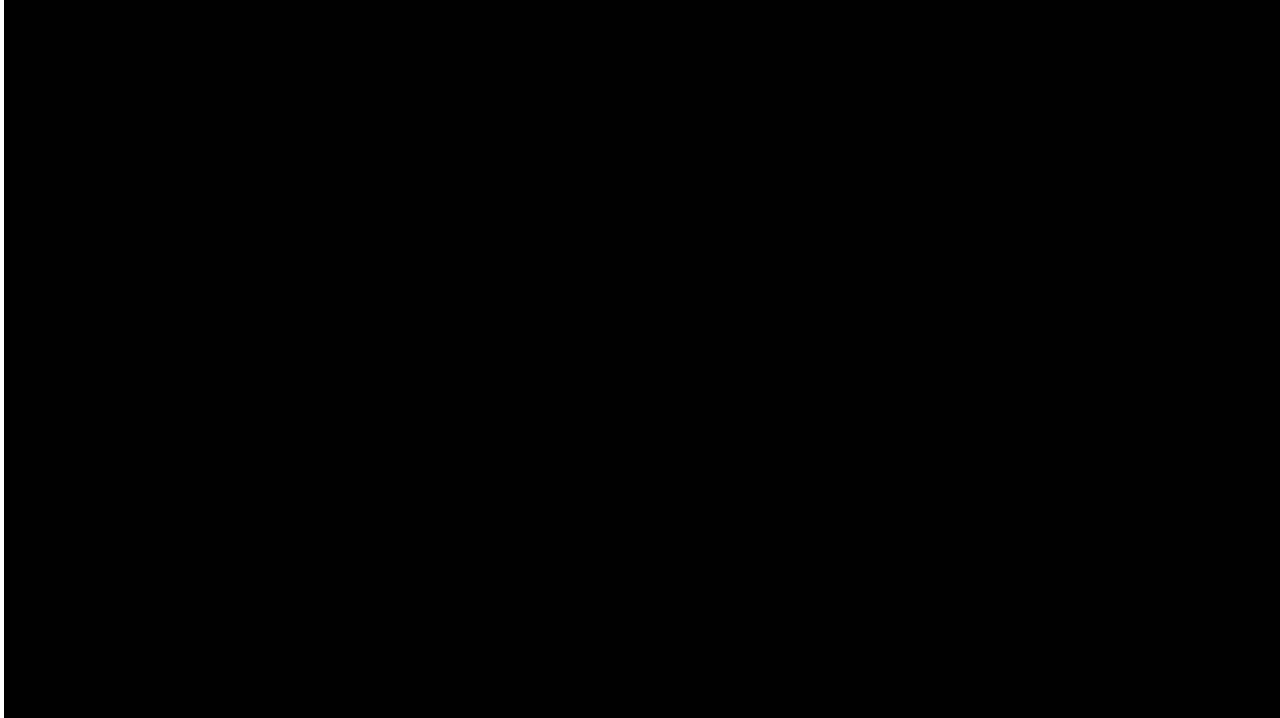
AirPlay hardware and software support

AirPlay is supported on the following devices

- Cisco Desk Series
 - Desk Mini, Desk, Desk Pro
- Cisco Board Series
 - Board 55S, 70S and 85S
 - Board Pro / Pro G2
- Cisco Room Series
 - Room Bar, Room Bar Pro, Room Kit EQ/EQX, Room Kit Pro
 - Room 55/70 Series and Kit Series

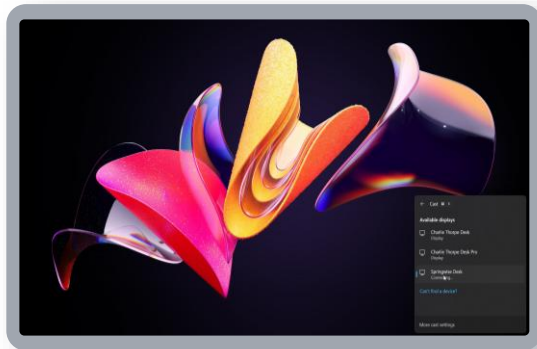
AirPlay is available with the following minimum software

- RoomOS11 Experience
- Control Hub registered Devices including Webex Edge Devices



Miracast Content Sharing

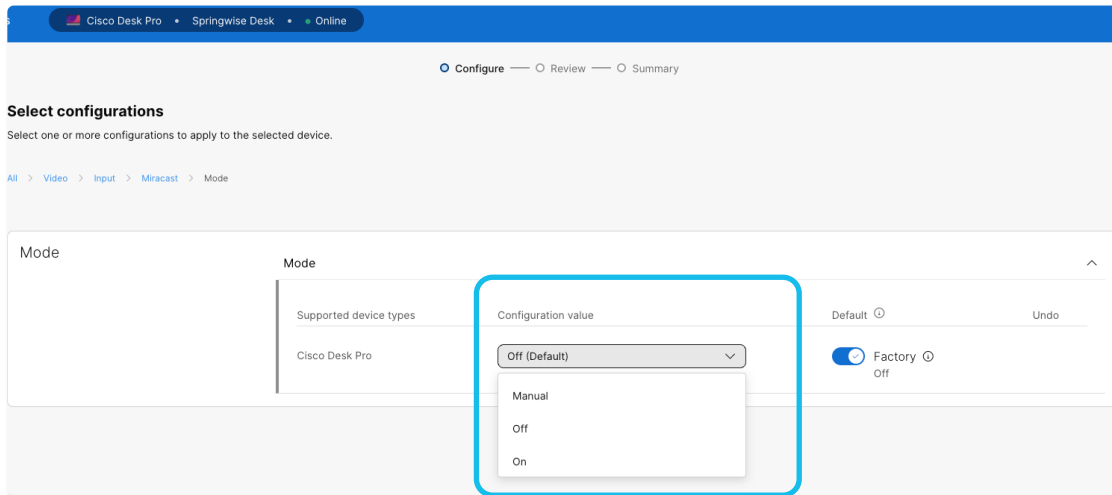
- Miracast provides a content sharing solution without the need for a client as it is integrated into Windows 8.1 and above.
- Miracast can use either the local infrastructure or Wi-Fi Direct to establish a connection to transfer a video stream from the Miracast device, such as a Windows PC/Android based device to the Cisco video device.
- Miracast Touch Forwarding now supported with touch enabled devices (Desk and Board series) as well as 3rd Party touch screens with RoomOS 26.
- Touch Forwarding supported outside of a call or in a Webex call



Miracast Deployment Options – Control Hub

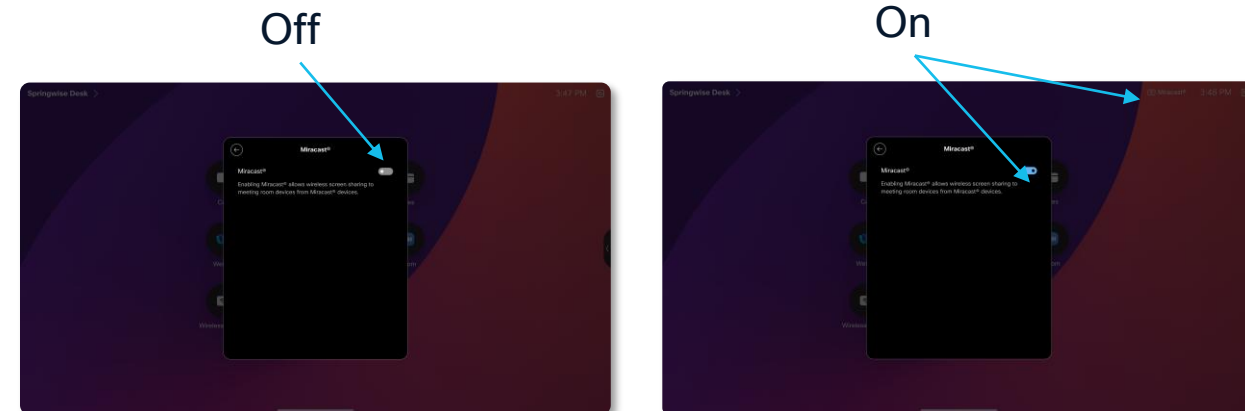
Admin Controlled

- If the administrator wants to control Miracast availability, setting the Miracast Mode to On from the device configuration in Control Hub will ensure that it will always be visible to the end user.
- The Default Value is Off.



User Controlled

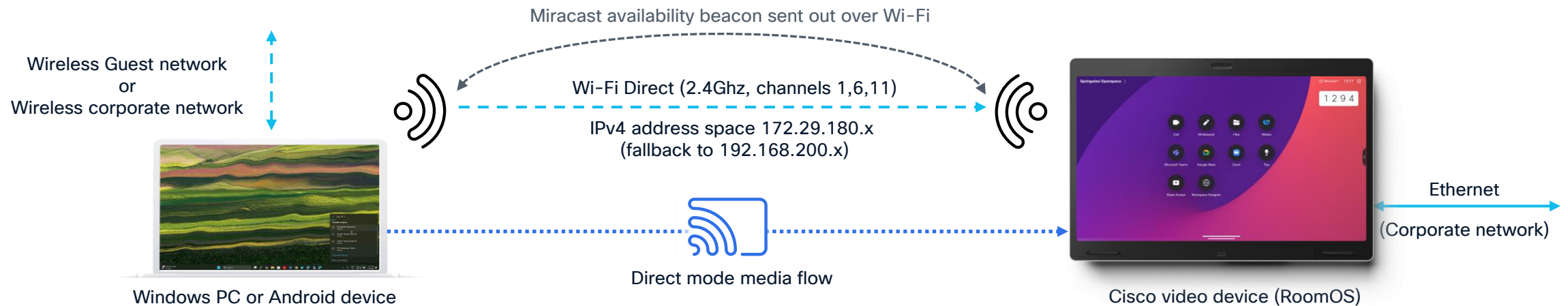
- If the administrator wants the end user to control Miracast availability, set the Miracast Mode to Manual from the device configuration in Control Hub.
- The Default Value is Off.
- With Miracast Mode turned to Manual, the end user will be able to turn it on or off from the UI. With it turned off, the home page of the device will not show Miracast icon.



Miracast Transport Modes

Direct

- Direct mode will only use Wi-Fi Direct for transportation:
 - Peer-to-Peer network is established between the Sender and the Cisco video device.
 - All IP packets with destination of source address outside of Wi-Fi Direct subnet are dropped by the firewall.
 - UDP packets on port 68 are allowed (BOOTP/DHCP).
 - ICMP packets are allowed with a limit of 10/second.
 - Average bit rate for video with motion is typically ~10 Mbps.
- Direct Mode is the default setting.



Miracast Transport Modes

Infrastructure

- Miracast over infrastructure (MS-MICE) will utilise the corporate network for media transmission.
 - Miracast availability beacon is emitted directly from the Wi-Fi interface on the Cisco video device. Wi-Fi must also be enabled on the Windows device for discovery of the Miracast beacon.
 - Once discovered, the Windows PC can leverage the corporate network to send the media for the share. The Windows PC can be wired or wireless.
 - In addition to ports 7236 and 7492, TCP port 7250 must be open to support MS-MICE.
- Infrastructure Mode is **ONLY** supported with Windows devices.
 - IPv4 and IPv6 supported.
 - Android mobile devices do not support MS-MICE and therefore will not connect if Infrastructure only mode is configured.



Miracast Transport Modes

Auto

- Miracast Auto mode automatically selects between Wi-Fi Direct® and Infrastructure mode to enable a Miracast share.
- Infrastructure – Windows PC will use this mode and automatically fallback to Wi-Fi direct if infrastructure mode fails.
- Wi-Fi direct – Windows PC will use this mode if:
 - Infrastructure mode fails between Windows PC and Cisco video device on the same LAN.
 - Windows PC's not on the same LAN as the Cisco video device (guest network).
 - Windows PC's that are connected to an unencrypted Wi-Fi network.
 - Windows PC using Windows versions prior to Windows 10 v1809.
- Android devices do not support Infrastructure mode, so therefore when Miracast mode is set to Auto, Android devices will always connect via Wi-Fi Direct.

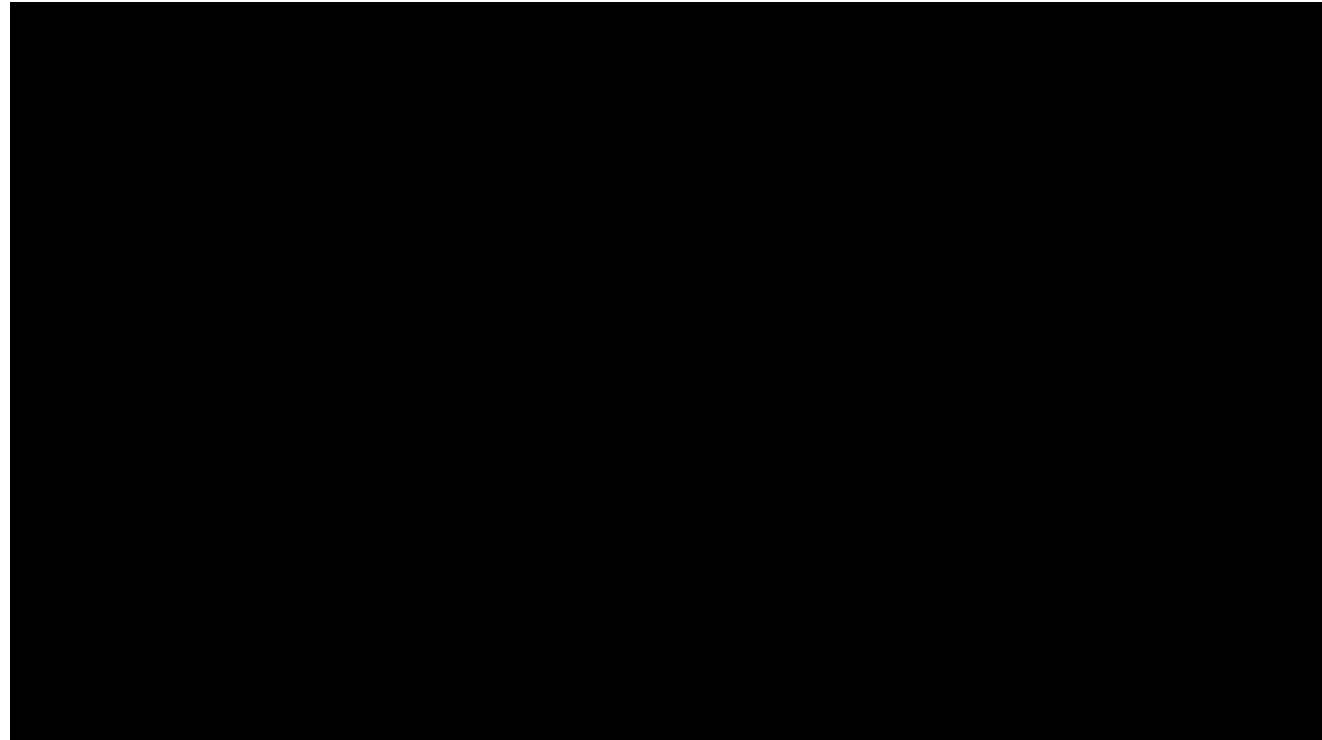
Miracast hardware and software support

Miracast is supported on the following devices

- Cisco Desk Series
 - Desk Mini, Desk, Desk Pro
- Cisco Board Series
- Cisco Room Series
 - Room Bar, Room Bar Pro, Room Kit EQ/EQX, Room Kit Pro
 - Room 55/70 Series and Kit Series

Miracast is available with the following minimum software

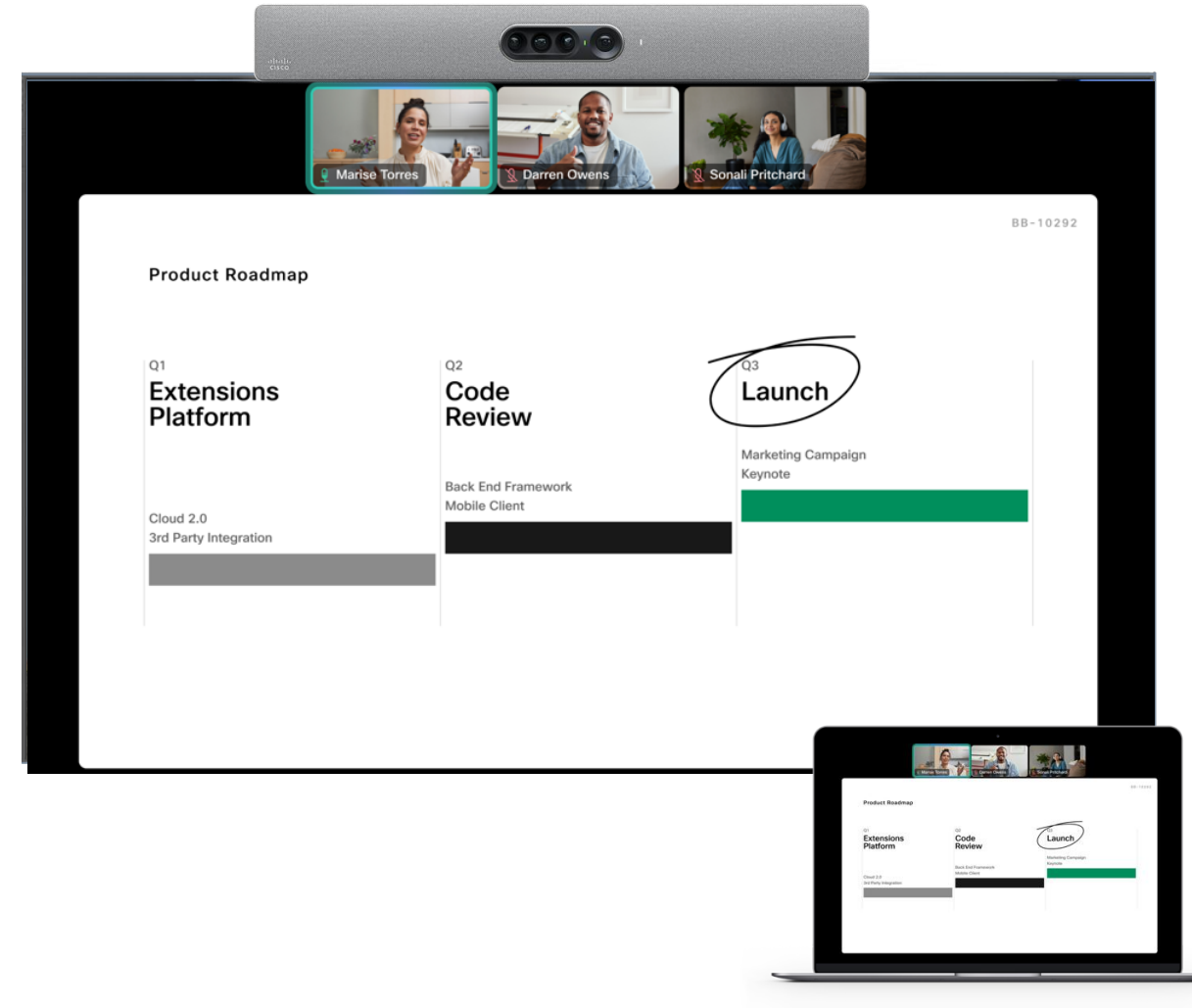
- RoomOS11 Experience
- Control Hub registered Devices including Webex Edge Devices
- On-premises registration (minimum of RoomOS 10.19.2.2 with RoomOS 11 UI enabled).



USB Passthrough

USB Passthrough

- Native USB Passthrough mode allows you to take advantage the device's rich microphone(s), intelligent camera(s) and powerful speaker(s) as a sophisticated web camera for various 3rd party software clients.
- Supports intelligent video with best overview, frames and Cinematic Meetings features
- Available natively on Cisco Desk Series, Cisco Board Pro, Room Bar , Room Bar Pro and Room EQ/EQX
- Other devices support with 3rd party hardware



Summary

Summary

- Devices for Any Space
 - Desk, Meeting Room and Complex
- Consistent User Experience
 - RoomOS, Device Intelligence (Cameras, Microphones etc)
- Hybrid Calendar is a Must!
 - Give your customers One Button to Push
- Join Any Meeting
 - Google, Zoom, Webex, Teams, SIP and USB Passthrough
- Multiple Sharing Capabilities
 - Wireless, AirPlay, Miracast, Cable



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