

The Cisco Live! logo, featuring the word "CISCO" in a dark blue, sans-serif font, followed by "Live!" in a dark blue, cursive script font.

CISCO *Live!*

The text "Let's go" in a dark blue, sans-serif font, positioned to the left of a bright white sunburst graphic that radiates across the right side of the image.

Let's go

#CiscoLiveAPJC



The bridge to possible

Integrating Cisco Video Devices and 3rd Party Meeting Platforms

Robert McAffery – Technical Solutions Architect
BRKCOL-2094

CISCO *Live!*

#CiscoLiveAPJC

Cisco Webex App

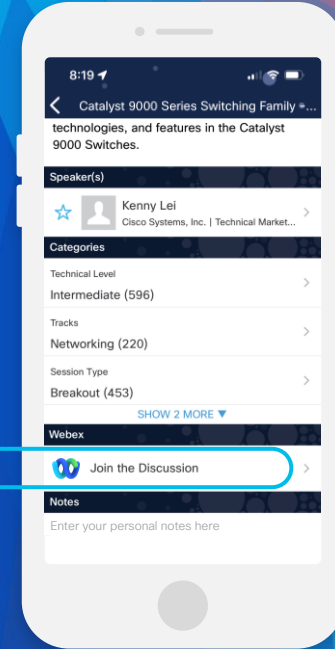
Questions?

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 December 22, 2023.



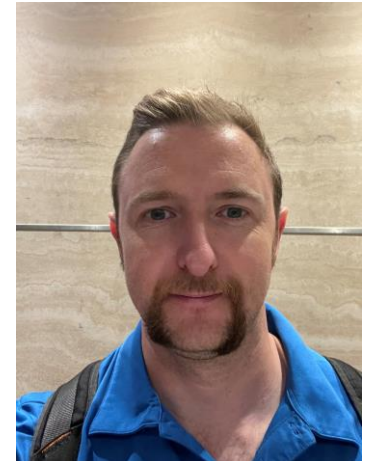
<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKCOL-2094>

Agenda

- Introduction
- Overview of Cisco video devices
- Features (the cool stuff)
- How to Join a Zoom Meeting
- How to Join a Google Meeting
- What else can we join?
- Summary

Who is Robert?

- Has been working in UC and collaboration for 17 years
- Worked in support, engineering and pre-sales – for customers & partners. Been there and felt the pain and joy
- Worked in Cybersecurity for 2 years but came back to Collaboration... my first love
- I was forced not to do Movember.....after last year...



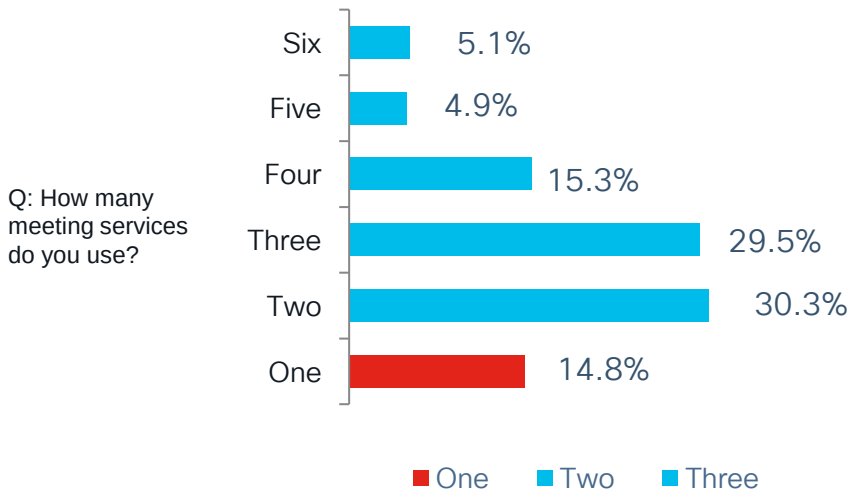
Streaming Wars



.....One device

It's a multiplatform world

We all need to join other platforms to talk to customers or partners



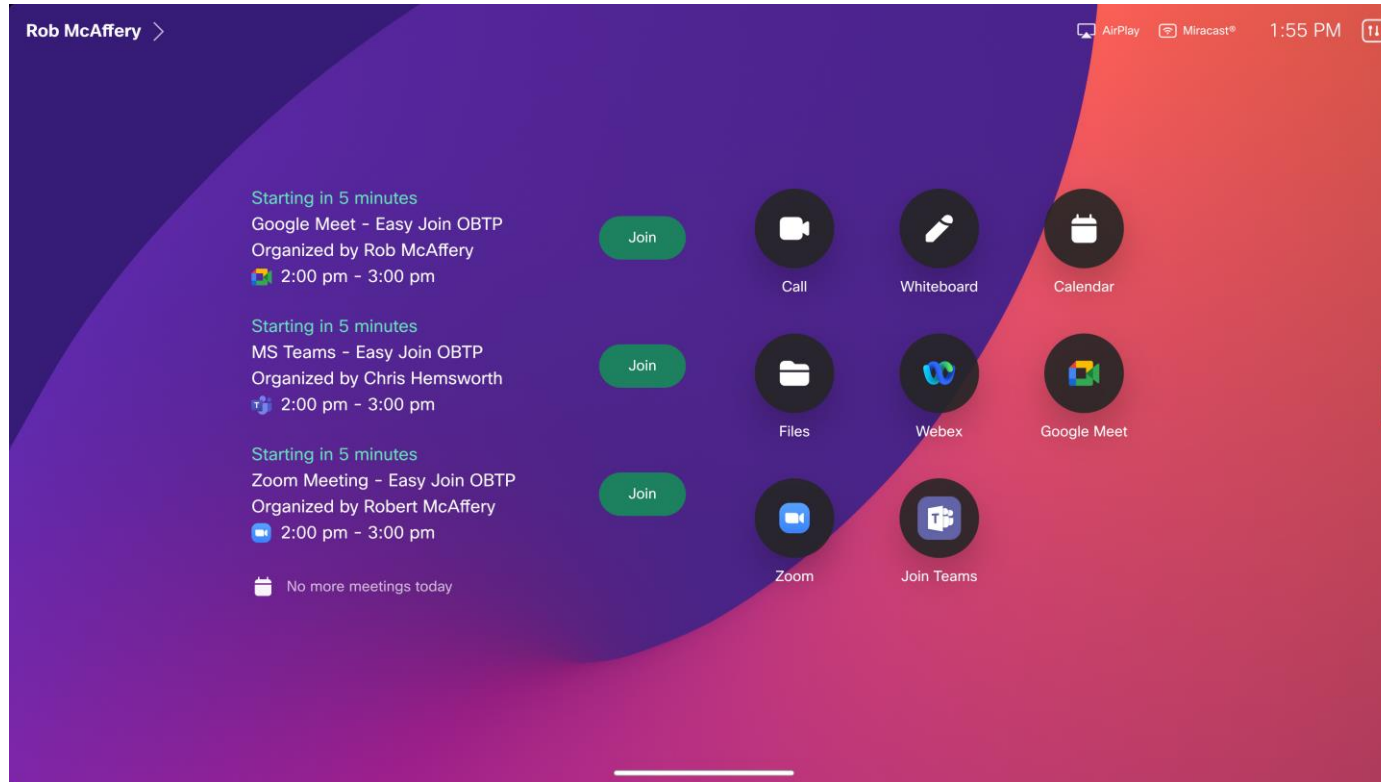
85%

of organizations
support 2 or more
meeting platforms

*Source:
Cisco Collaboration Devices Decision-Maker Survey, December 2021; N = 1539

Open Platform Strategy

One device that can join easily join any meeting on any platform



Collaboration Devices



Meeting Rooms

In the past

One vendor experience

One workload at a time

In-room experience only



Going forward

Multi vendor experiences

Multi workloads at a time

In-room and remote experiences

Much more than a “video device”

Desk all-in-one portfolio

Desk Range



Desk Mini



Desk



Desk Pro

A device
for every
space

Portable collaboration
device for small
workspaces

Small huddle spaces
or Executive desktop

Our flagship device
for the
high-end experience

15-inch

24-inch

27-inch

1080p

1080p

4K

All come with in-built sensors, same RoomOS 11, virtual backgrounds,
on-prem or cloud registered USB-C passthrough with touch redirect

Cisco Board Pro

Board Range



Board Pro 55-Inch



Board Pro 75-Inch

All-in-one device for small meeting rooms and huddle spaces

Digital whiteboard with sticky notes – multitouch support for multiple people to use at the same time

Two dedicated stylus, web apps, Signage option, wireless share speaker track and frames

High-resolution 4K 55-inch or 75-inch LED screen, with an integrated 4K camera, embedded microphones, and a capacitive touch interface

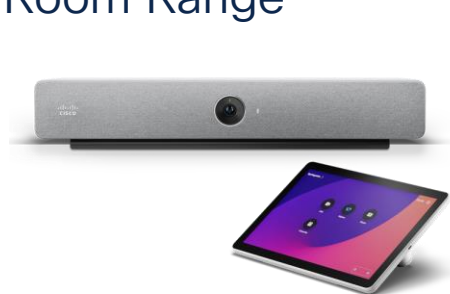
USB-C pass through with touch redirect

2 camera, wide angle and close up

Frames, Best Overview and People tracking

Room Series – Small/Medium/Large

Room Range



Room Bar

3-7 People (inc. people count)

Small Meeting room or huddle space with existing screen



Room Bar Pro

Up to 7-10 people (inc people count)

Medium Meeting room with existing screen



Room EQ & Pro

Large 12+ people & custom rooms

Multiple Room Configuration Options – additional camera, screens & AV setup

Dual screen support + extra mic

Frames, Speaker Tracking, AirPlay & Miracast OBTP & Content sharing, room control w Navigator

Cisco Room Bar Pro

- Integrated, powerful video collaboration bar featuring a NVIDIA chipset with embedded AI
- 96MP dual camera system
- Beamforming, noise cancelling microphone array
- 3-channel loudspeakers for clear stereo sound
- Supports three screens for video and content
- Dual wired content sources
- USB passthrough for instant BYOD meetings
- Streamlined AV over IP for room peripherals
- Third-party video interoperability to join Zoom, Microsoft Teams and Google Meet.



Cisco Room Kit EQX



Unrivalled inclusive meetings for any workspace

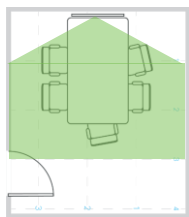


Room Bar

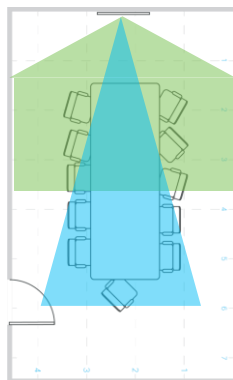
Room Bar Pro

Quad Camera

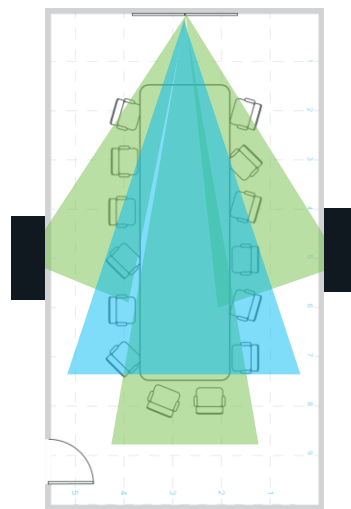
Quad Camera + PTZ 4K Camera



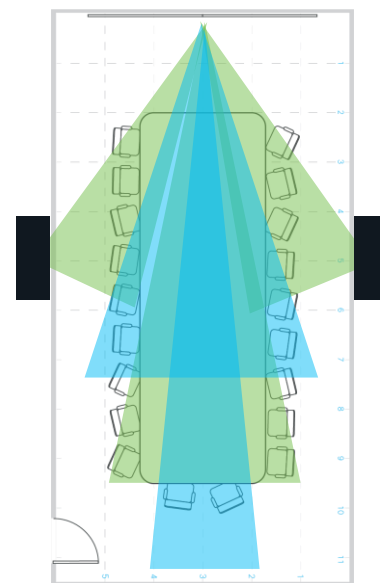
Small



Medium



Large



Extra Large

Device + camera for every space

Inclusive presentations and hybrid events

Smart presenter tracking powered by the Quad Camera and the PTZ 4K Camera helps to connect local presenters with remote audiences for more engaging meetings, trainings and events where no one gets left behind.



Cross View

Show the best view of people in the room from different angles through adaptive, AI-directed switching that produces high-quality, immersive video conferencing.

A blend of multi-camera technology over IP and software-driven intelligence on Cisco RoomOS enables the cross-view experience to help everyone feel present in the discussion.

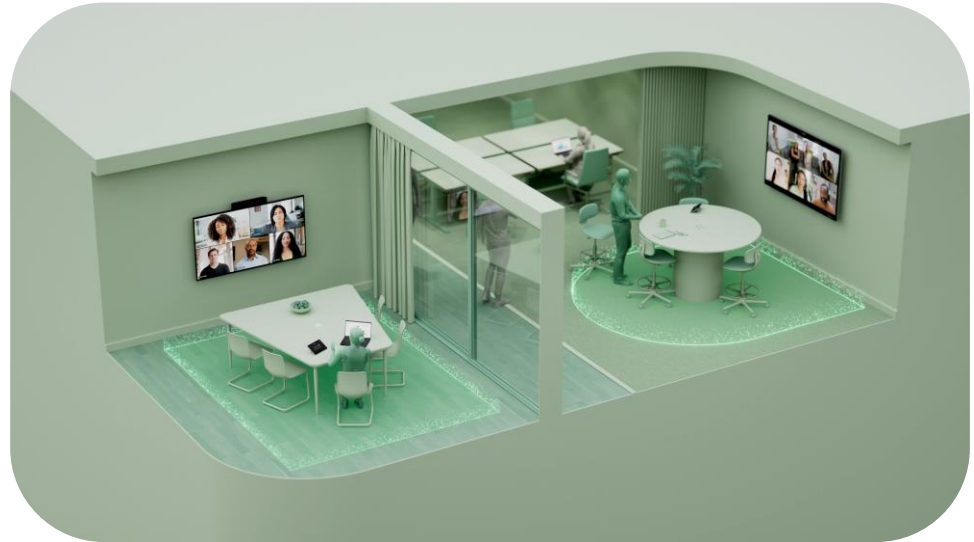
*Future Software Release

Requires EQX + 2 PTZ4K cameras



Meeting Zones

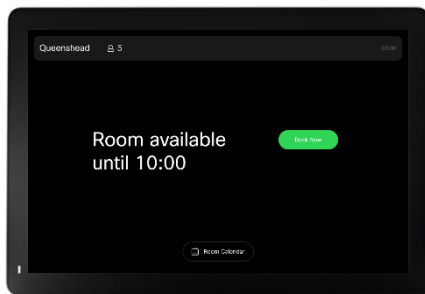
Enable efficient, distraction-free meetings in open spaces and glass-walled meeting rooms by only framing and tracking people in the meeting. Manually set boundaries or leverage the intelligence in the device to automatically learn and frame the space.



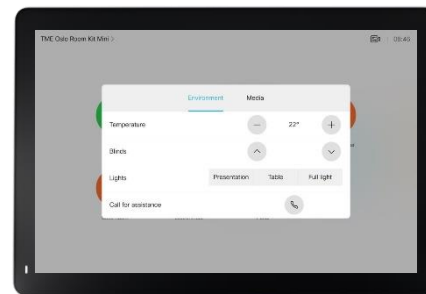
Room Navigator



Conference control



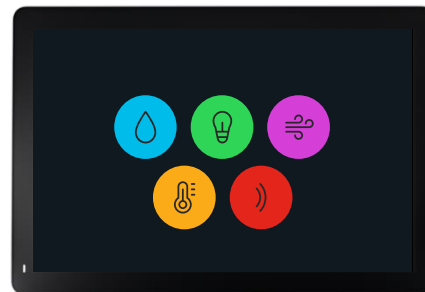
Room booking



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



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](#)

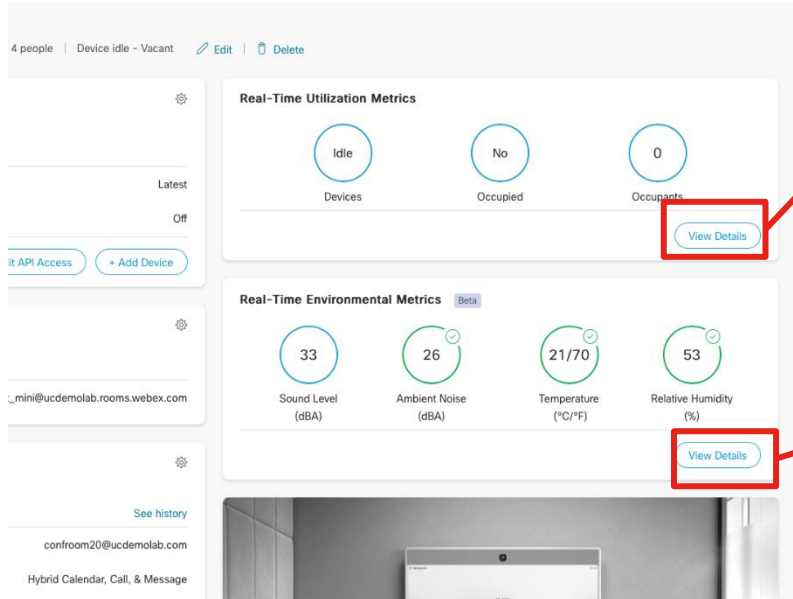
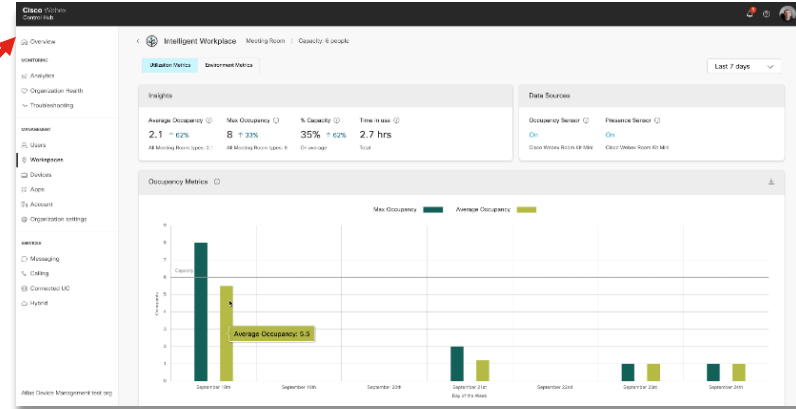
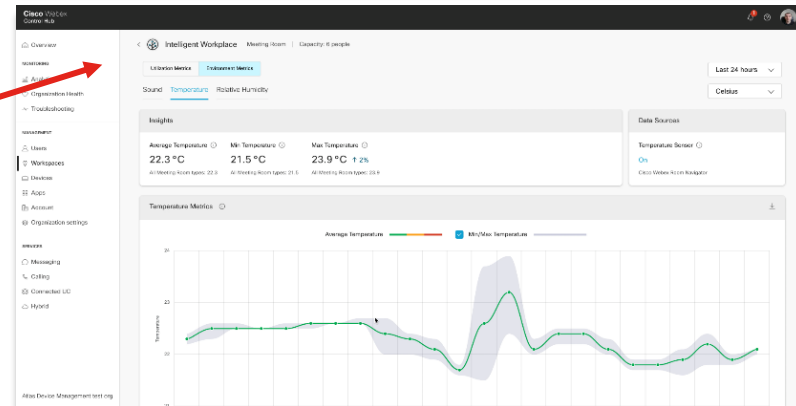
Real-Time Environmental Metrics

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



Sharing



Apple AirPlay is now on Cisco Devices

Sharing content, music and video in and out of calls



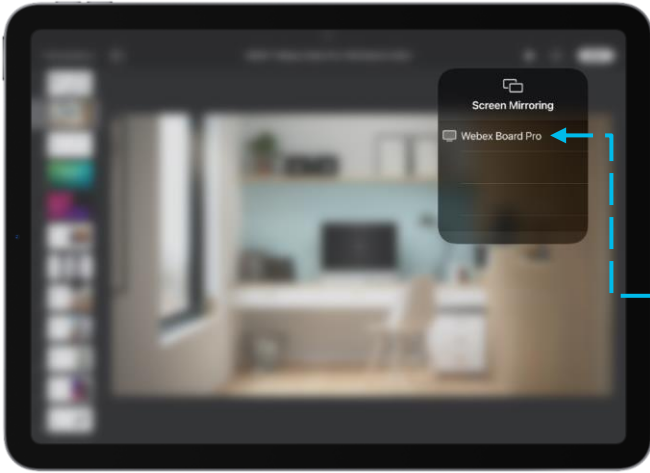
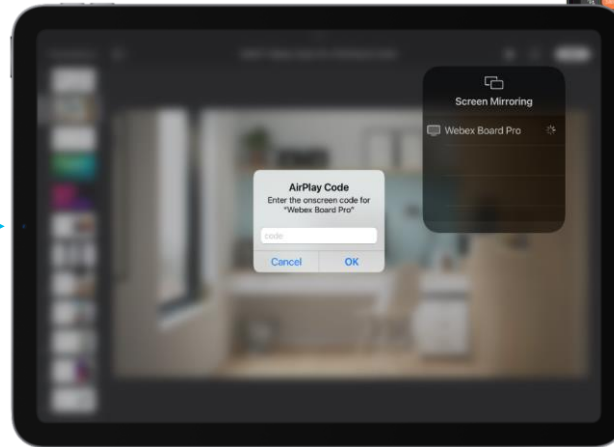
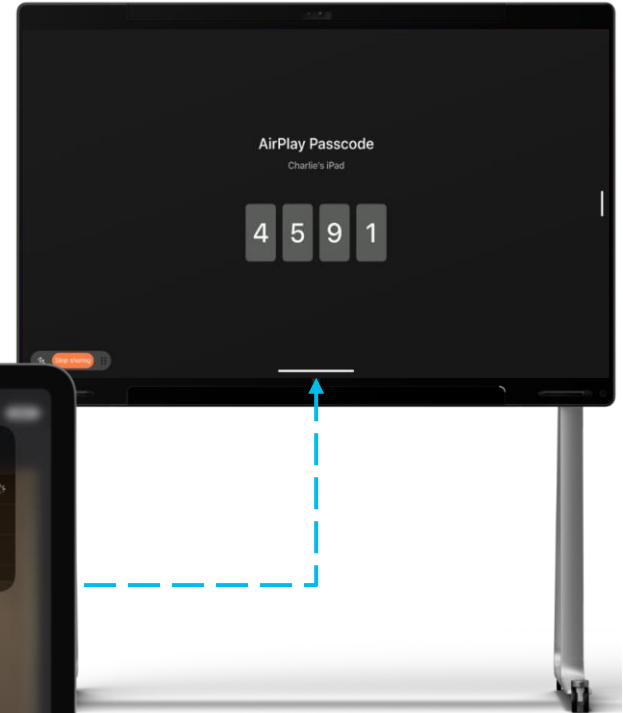
CISCO *Live!*

RoomOS11
feature!



Maintain privacy and security

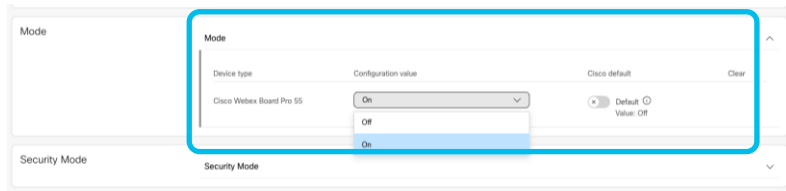
Simply choose your Cisco device from the AirPlay picker in Control Center



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.



• Personal Mode systems

- 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 support

AirPlay will be supported on the following devices

- Cisco Desk Series
Desk Mini, Desk, Desk Pro
- Cisco Board Series
Board 55S, 70S and 85S
Board Pro (55 and 75)
- Cisco Room Series
Room 55 Series
Room 70 Series
Room Kit Series
Room Bar

AirPlay will NOT be supported on the following devices

- Cisco Desk Hub
- Webex Room Phone
- Webex Share
- Cisco Board
Board 55 and Board 70
- DX Series
DX70 and DX80
- MX Series
MX200G2, MX300G2, MX700 and MX800
- SX Series
SX10/10N, SX20 and SX80

Miracast[®] – Wireless Display Content Sharing



RoomOS 11
feature!

- Wirelessly share without the need for an App installed!
- Gives very low latency and high media quality, including audio.
- Miracast can use either the local infrastructure or Wi-Fi Direct to establish a connection to transfer a video stream to the Cisco video device.
- Allows for sharing “extended” desktop, so you can see “presenter view” while presenting.
- Available on Room, Desk and Board series. Requires the Cisco Device to be on cabled network.

Cisco Room devices – Miracast® support

Miracast® will be supported on the following devices

Supported on Cisco video devices running RoomOS 11

Minimum of RoomOS 10.16.1 with RoomOS 11 UI enabled.

- Cisco Desk Series
 - Desk Mini, Desk, Desk Pro
- Cisco Board Series
 - Board 55/55S, 70/70S and 85S
 - Board Pro (55 and 75)
- Cisco Room Series (requires minimum of RoomOS 10.17.1.1 with RoomOS 11 UI enabled.)
 - Room 55 Series
 - Room 70 Series
 - Room Kit Series
 - Room Bar

Miracast® will NOT be supported on the following devices

- Cisco Desk Hub
- Webex Room Phone
- Webex Share
- Cisco Room Panorama systems not currently supported
- DX Series
 - DX70 and DX80
- MX Series
 - MX200G2, MX300G2, MX700 and MX800
- SX Series
 - SX10/10N, SX20 and SX80

Cisco Room devices

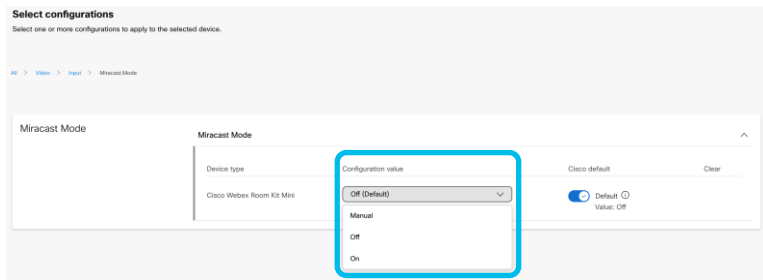
Miracast® support – The network details

- Cisco video device requires wired (Ethernet) connection to the network.
 - Connecting the Cisco video device to the network via Wi-Fi will disable Miracast capability
- Wireless connection is used to establish Wi-Fi Direct connection between Miracast sender and Cisco video device over 2.4GHz band.
 - Miracast requires port 7236 to be open on the sender's device so that the real-time streaming protocol (RTSP) server can listen for requests.
 - Ensure Cisco video devices that have external Wi-Fi antenna shipped (Codec Pro) are connected to the codec.
 - PIN authentication is 4 digit or 8 digits
 - PIN generated by Cisco video device is valid only for 30 seconds
 - Windows Defender Firewall may also block the port – ‘Wireless Display’ needs to be checked in the Allowed Apps.

Miracast® deployment options – Control Hub

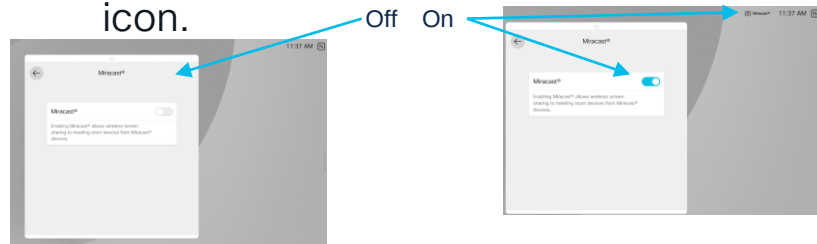
Admin controlled

- 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

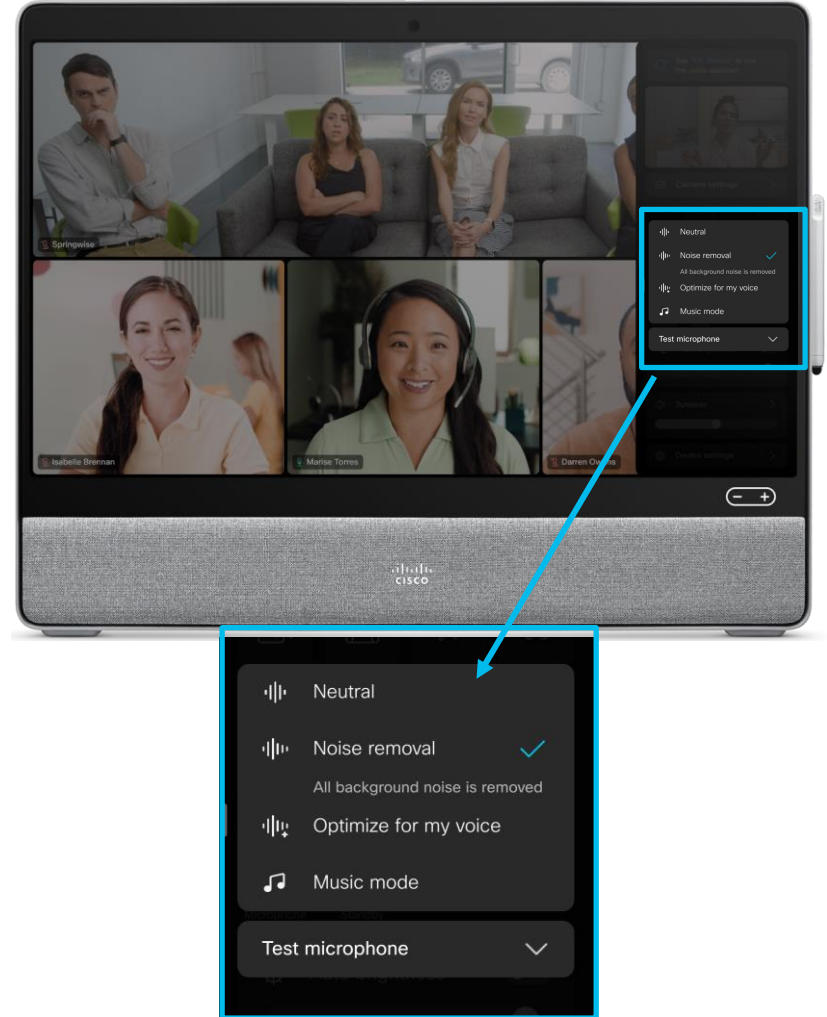
- If the administrator wants the end user to control Miracast availability, set the Miracast Mode to Manual from the device configuration in Control Hub.
- The Default Value is Off.
- With Miracast Mode turned to Manual, the end user will be able to turn it on or off from the UI. With it turned off,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



Intelligent Device Features

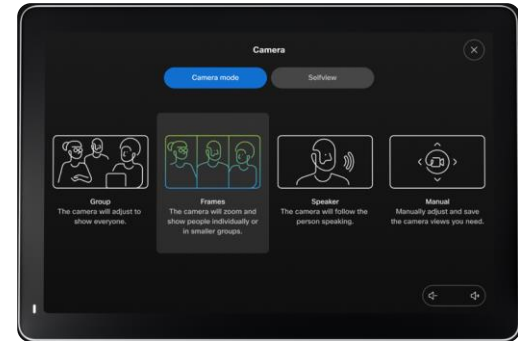
Noise Technology

- Life is noisy! Planes, cars, lawn mowers
- Distraction free meetings
- Works on ALL meetings!
- Platform agnostic



Camera Intelligence

- Intelligent camera capabilities built into every device that works for any meeting
- Camera intelligence showing where everyone is and their full expression and reactions
- Maximum flexibility to adapt to every meeting type and room set-up
- Camera options are controlled on the Room Navigator or side menu on Board devices



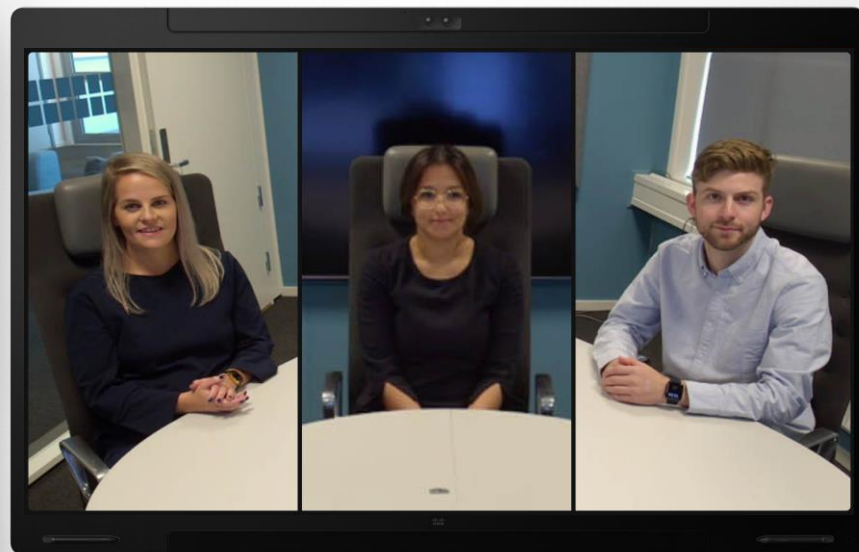
People Focus

Making sure you see the person and not the space

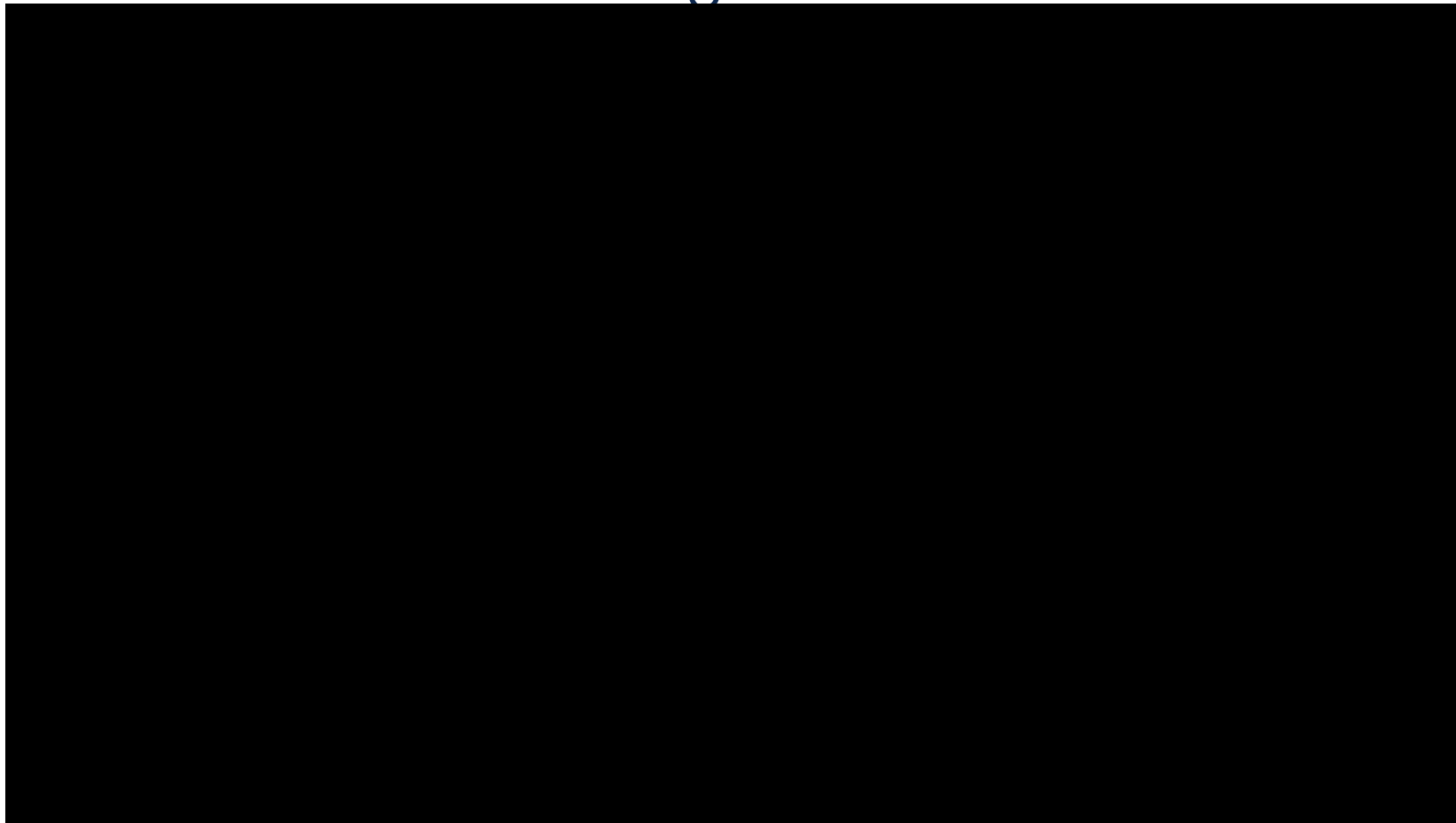


Framing

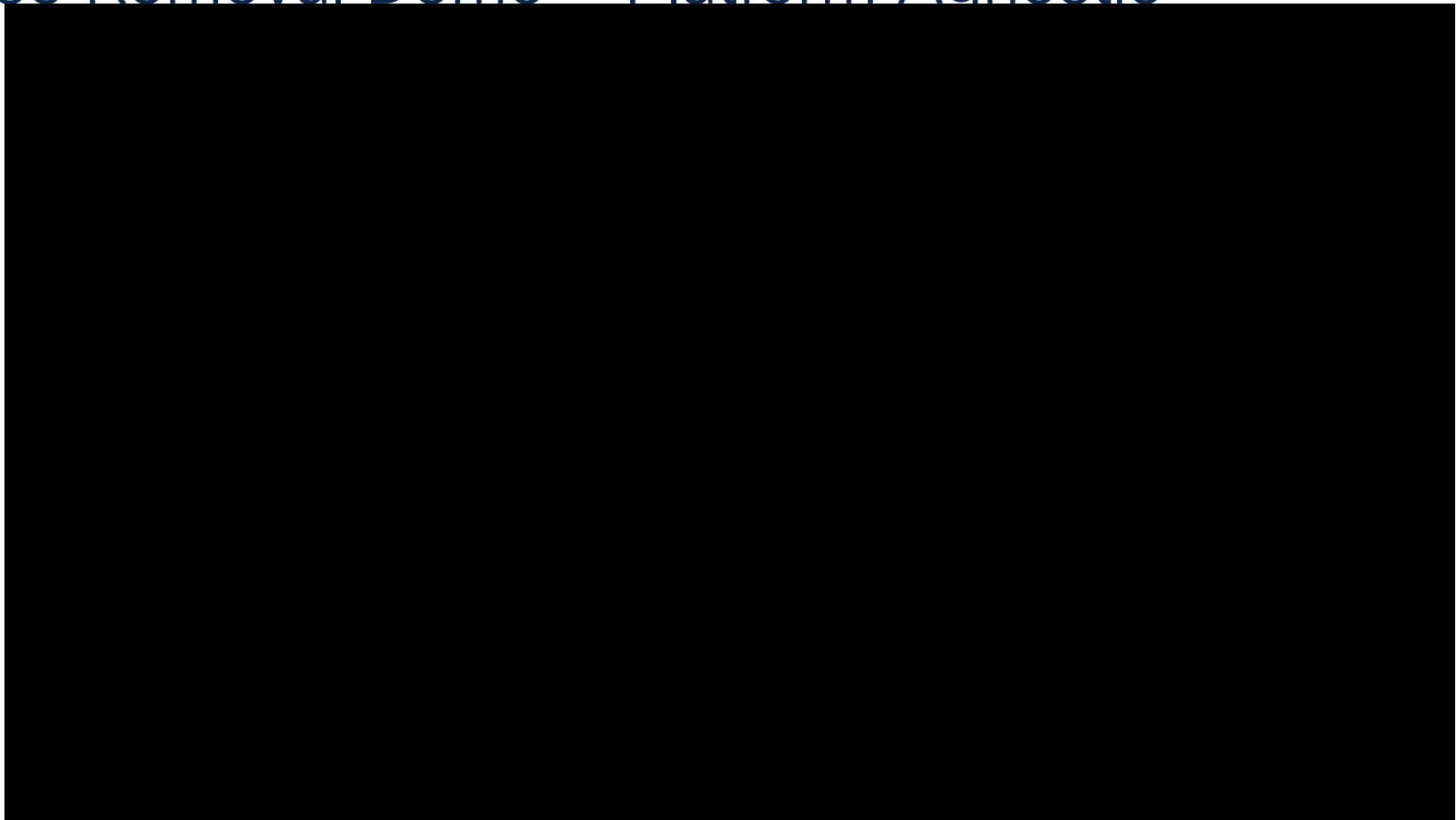
On the device – works on ALL platforms



Frames Demo - Platform Agnostic



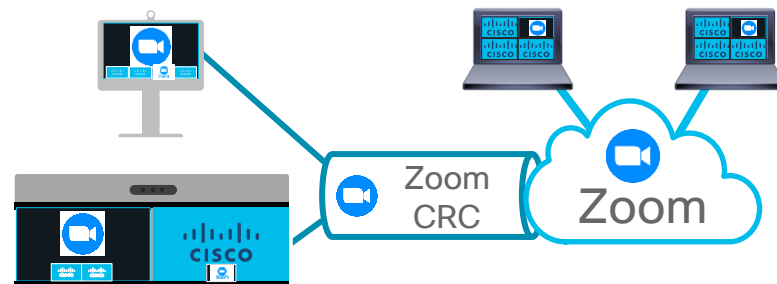
Noise Removal Demo – Platform Agnostic



Join a Zoom Meeting

Cisco & Zoom Video Interop

- Easy to join with One Button to Push or direct dial into meeting using Meeting ID
- Supports DTMF commands in-call such as managing layouts and host controls
- Supports Dual-screen experience
- Zoom Conference Room Connector (CRC) is required for Host control
- New ZoomUI for RoomOS 11



Zoom Interop Features

Available



All the local Cisco devices features

Noise removal

Speaker/Presenter

tracking

Mute/unmute

Best overview

Virtual

Background

Frames



Webex Assistant for devices

Join/end meeting

Raise/lower volume

Show/expand/hide my

view



Content sharing

Bi-directional content

sharing

Miracast

AirPlay



Joining methods

OBTP

Dial in (URI SIP +
passcode)



One-way
whiteboarding

Only from Cisco Board
and Desk devices: Initiate
a non-interactive
whiteboarding session

Considerations



Zoom Room Connector

Zoom Conference Room

Connector (CRC) is

required to for Host control



In-meeting controls

In-meeting controls

(layouts, unmute, etc) are
via new RoomOS 11 UI or
Macro



Add/remove

participants

Adding via Zoom App

Participant view available

through new Zoom UI



Lobby Management

Available through DTMF
tones/macros

Or new ZoomUI

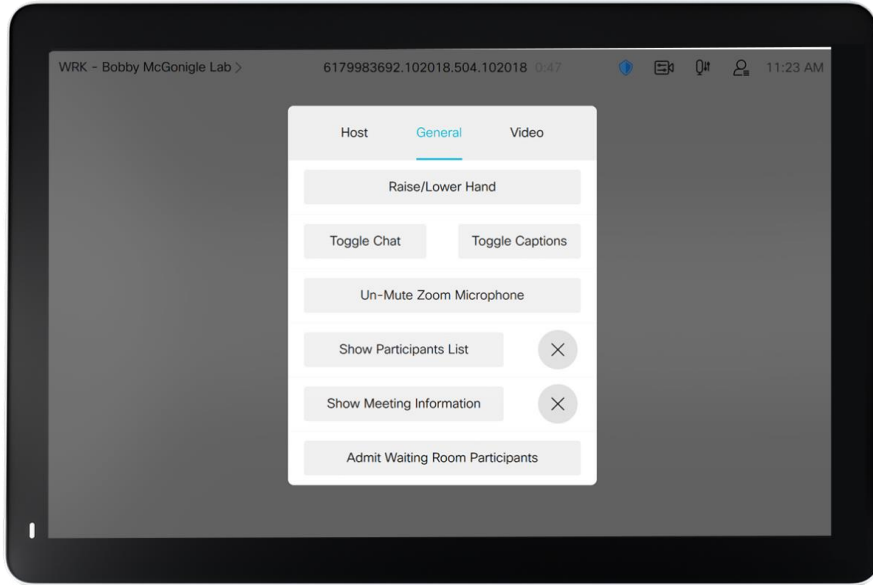


Start/stop recording

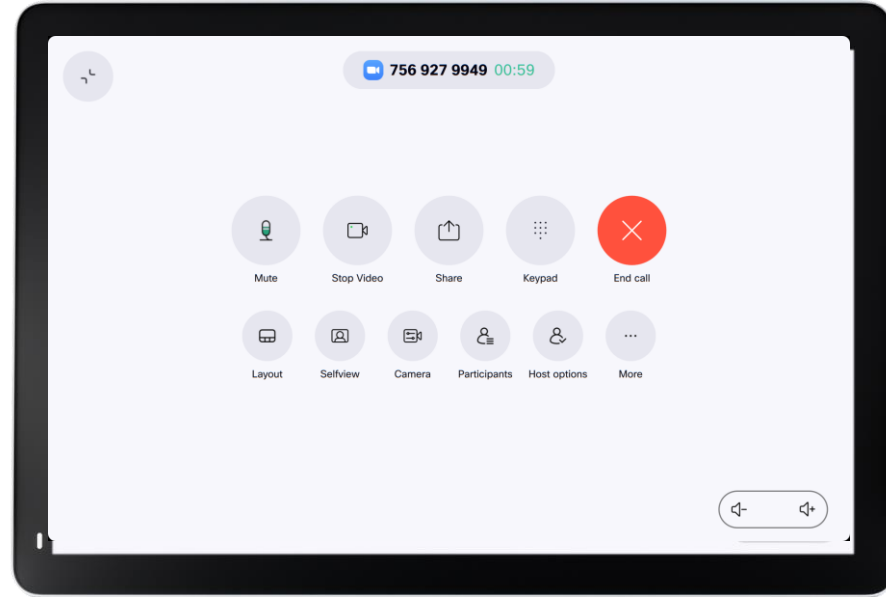
Available through DTMF
tones/macros

Or new ZoomUI

RoomOS 11 - Zoom in meeting controls

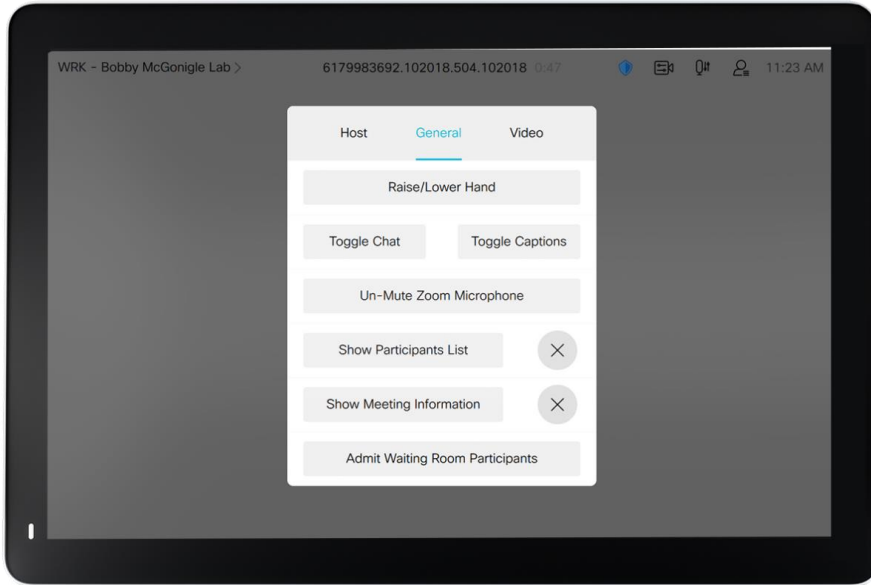
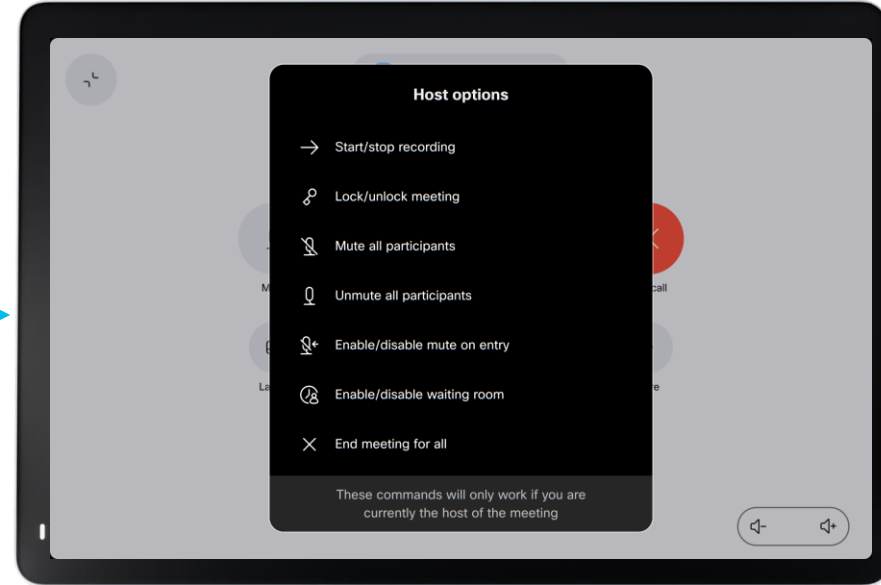


RoomOS 10 Macro UI



Zoom UI (built into RoomOS 11)

RoomOS 11 - Zoom in meeting controls



RoomOS 10 Macro UI

Zoom UI (built into RoomOS 11)

Licensing for Zoom interoperability

Zoom Video Interop for Meetings vs Zoom CRC

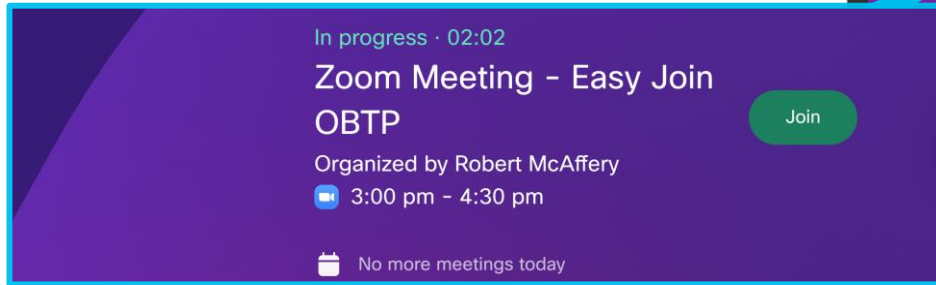
Basic SIP interoperability is now included at no additional cost with Zoom paid subscription.

For enhanced features, Zoom CRC licenses will be required.

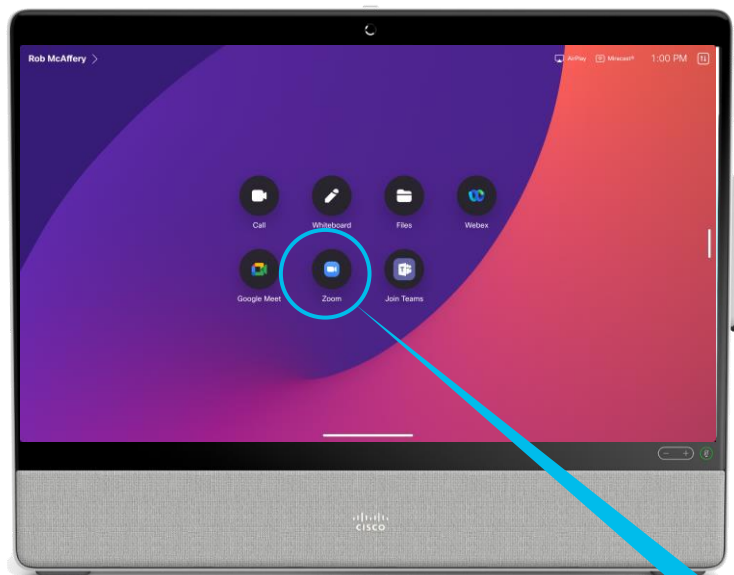
Feature	Video Interop for Meetings	CRC
Protocols supported	SIP	SIP and H.323
Max resolution	720p	1080p
Max displays	1	2
Supported webinar roles	Attendee only	Attendee and Panelist roles

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

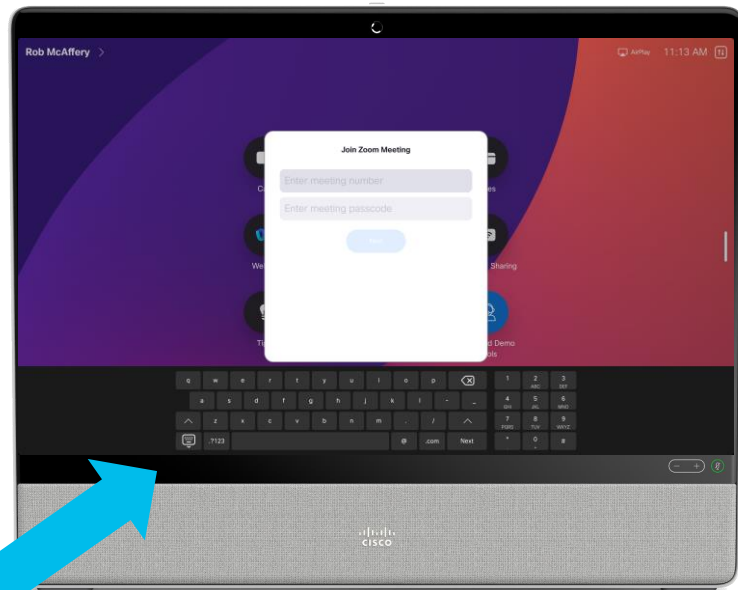
Join Zoom with OBTP



RoomOS 11 – Zoom Button



RoomOS 11 Zoom Button



Easy meeting join:
Button to join by meeting ID +
password

Enabling Zoom Toggle

MONITORING

- Webex Experience
- Analytics
- Troubleshooting
- Reports

MANAGEMENT

- Users
- Workspaces
- Devices**
- Apps

Devices

Devices Templates Settings Software My alerts Resources

Gives third party meeting providers access to the device camera and microphone.

☒ Enable Microsoft Teams

☒ Enable Google Meet

Interoperability token not set [+ Add token](#)

Interoperability service lets users join the meeting without waiting to be admitted as a guest.

Supported devices

Room, Board, and Desk series

☒ Enable Zoom

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.

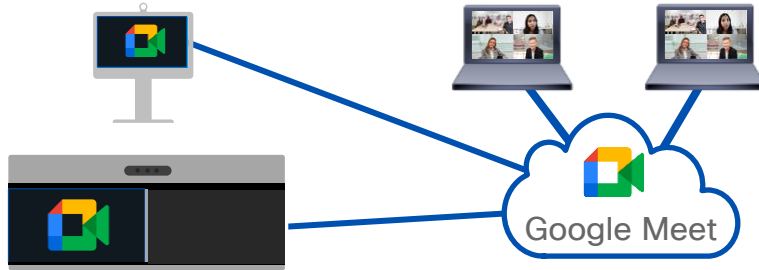
Join Zoom button (easy meeting join) can be enabled on Cisco Control Hub

Demo of Zoom RoomOS 11 UI

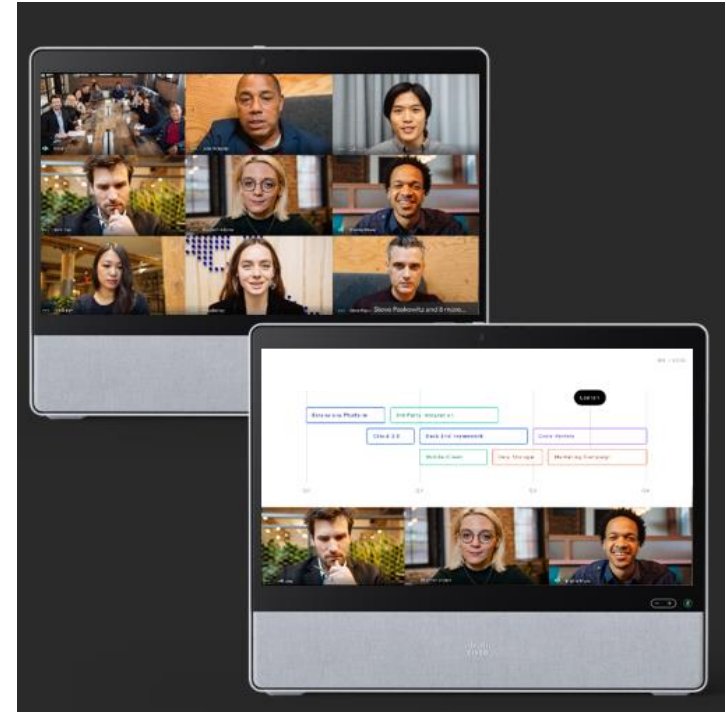


Join a Google Meeting

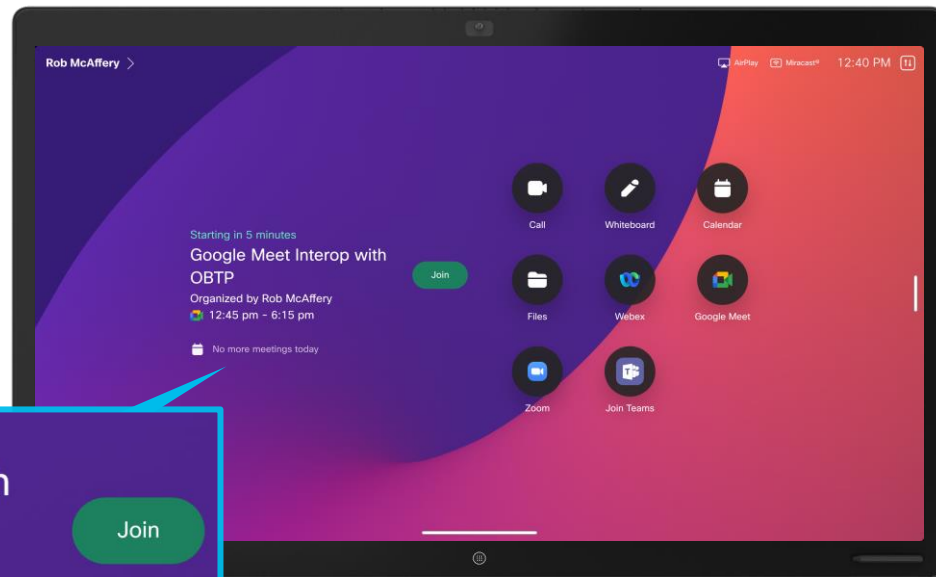
Webex video interop with Google Meet



- Cisco Devices join Google Meet Meetings using **WebRTC**
- **OBTP** and an embedded **Joining button** to join by meeting ID supported
- Device controls are available and actions like volume control, mute and hang-up are part of Cisco's UI and integrated into Google Meet



Join Google Meet with OBTP



Starting in 5 minutes

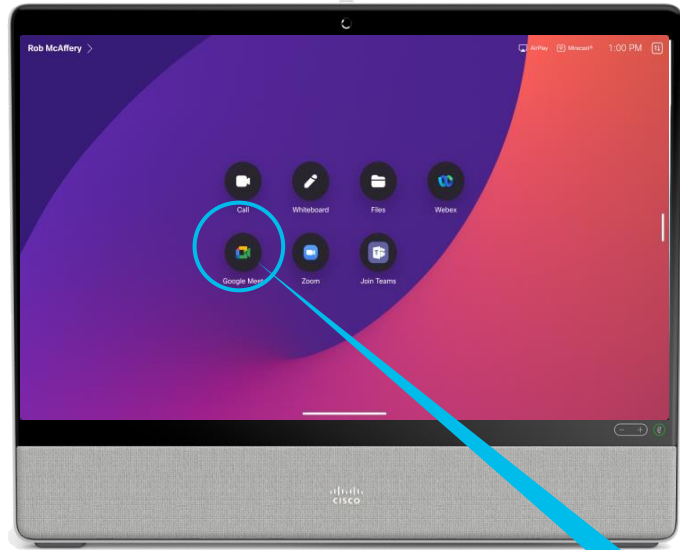
Google Meet Interop with OBTP

Organized by Rob McAffery

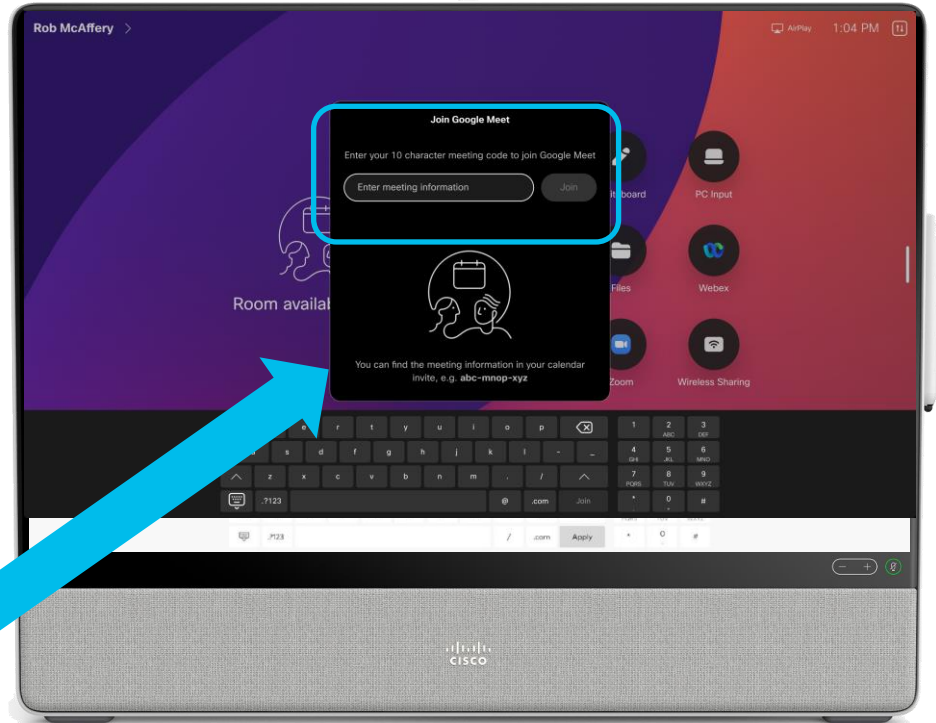
 12:45 pm - 6:15 pm

[Join](#)

Google Meet - Joining by Meeting ID Meetings

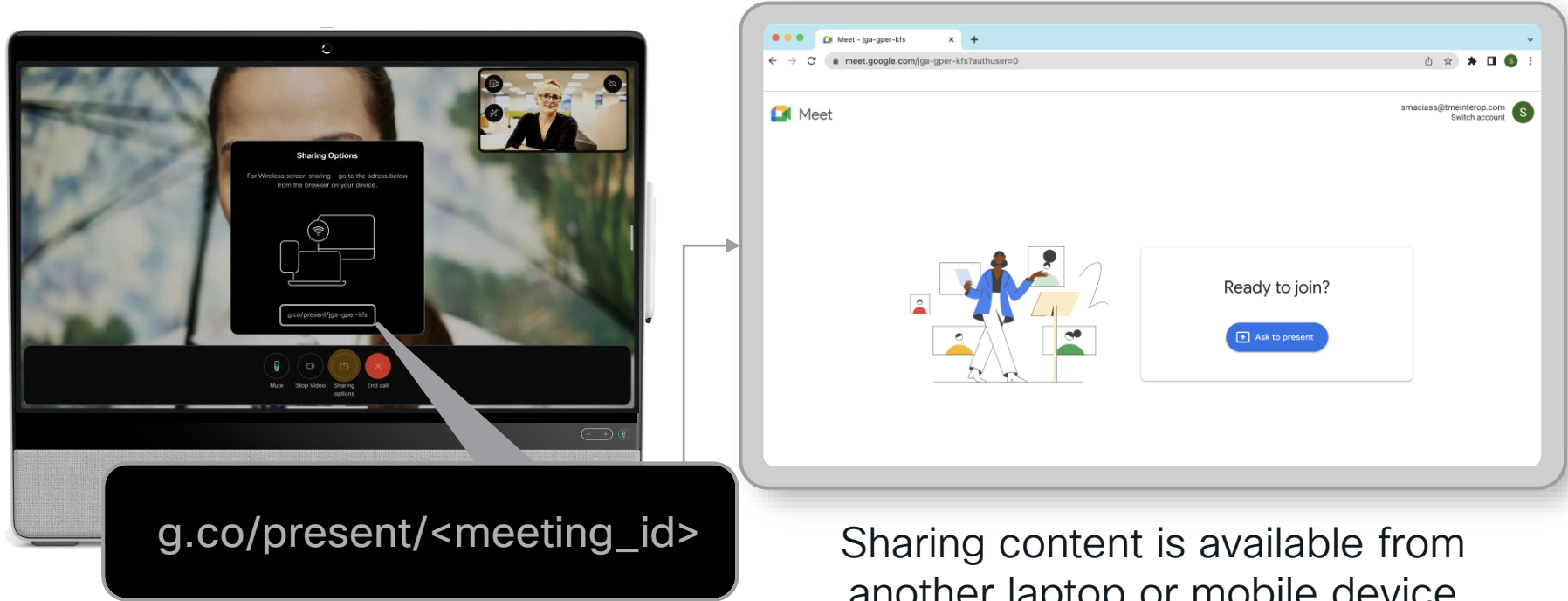


Google Button



Join with 10-digit meeting code

Content sharing – current



Sharing content is available from another laptop or mobile device

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



Admin experience - Control Hub

Devices

Devices Templates **Settings** Software My alerts Resources

Meeting providers
Gives third party meeting providers access to the device camera and microphone.

Enable Microsoft Teams
Enable Google Meet

Interoperability token active Edit token

Interoperability service lets users join the meeting without waiting to be admitted as a guest.

Supported devices
Room, Board, and Desk series

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 seamless integration and easy join through One Button to Push on the devices.

Required device configuration

- Microsoft Teams and Google Meet requires 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.

Meeting providers
Gives third party meeting providers access to the device camera and microphone.

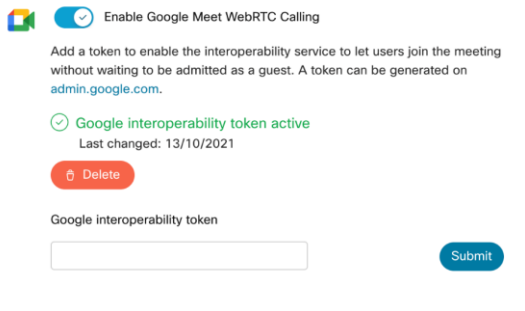
Enable Microsoft Teams
Enable Google Meet

Interoperability token active Edit token

Interoperability service lets users join the meeting without waiting to be admitted as a guest.

WebRTC support can be enabled under the Device Settings section in Control Hub

Lobby Bypass



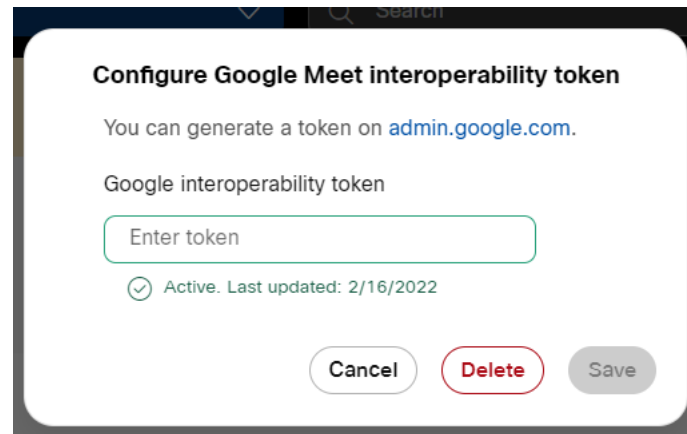
- Must be a paid Google Workspace service
- In the Admin console, go to Menu > Apps > Google Workspace > Google Meet.
- Click Interoperability tokens > Add a token.
- Select Cisco from the dropdown menu.
- Enter a token name for your own reference and click Create a token.
- Copy the token to your clipboard and click Close.
- Go to Cisco Control Hub and add your unique token.



Interoperability token active

Edit token

Interoperability service lets users join the meeting without waiting to be admitted as a g



Google Workspace Token

Google Meet

Status
ON for everyone

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	GuestAdmit	Mar 11, 2022	On
Cisco	NewToken	Mar 20, 2022	On

Add a token

Specify the token type and give it a name. [Learn more](#)

Type
Cisco

WebRTC

☒ **Trusted device**
Lets the device connect to a call without waiting to be admitted by the host. [Learn more](#)

[CANCEL](#) [CREATE A TOKEN](#)

Save this token now

For safety, you will not be shown this token again. It will be encrypted when stored, so you won't be able to retrieve it later. Record the token and its name before closing this dialog.

Interoperability token for "WebRTC"
[Redacted Token]

[Copy to clipboard](#)

[CLOSE](#)

Google Meet WebRTC meetings features

Available



Local device features

- Noise removal
- Speaker/Presenter tracking
- Mute/unmute themselves
- Best overview
- Frames
- Virtual Background



Webex Assistant for devices

Join/end meeting
Raise/lower volume
Show/expand/hide my view



Lobby bypass

Trusted participants are automatically admitted



Joining methods

OBTP
Ad-Hoc Join

Google client needed



Content sharing

Content sharing is only available from the Google Meet Web client or mobile app
No need to join by video



Lobby management

Google Meet Web client needed to admit guests and non-trusted participants



Add/remove participants

Google Meet Web client needed



Mute remote participants

Google Meet Web client needed



Start/stop recording

Google Meet Web client needed

Google Meet Interop - Feature Roadmap

Available now!

Lobby Bypass

- Devices from same org can bypass the lobby on Google Meet meetings

Joining using Google Meet button

- Button on devices to join Google Meet meetings by meeting ID

Planned

Bidirectional Content Sharing

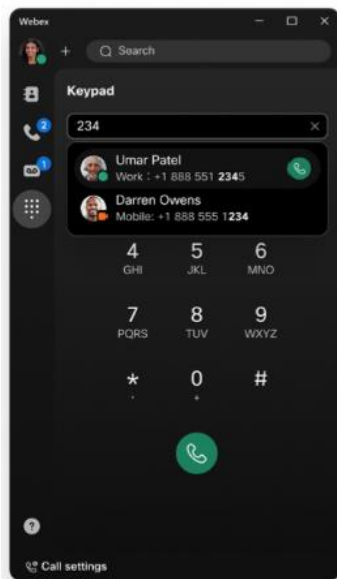
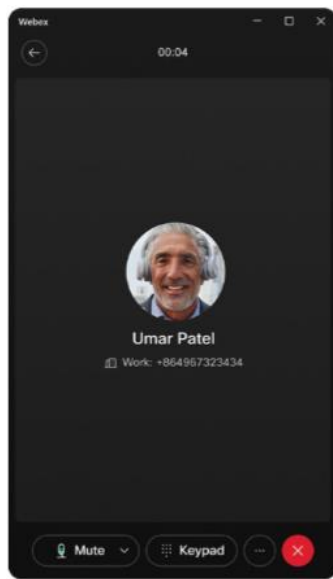
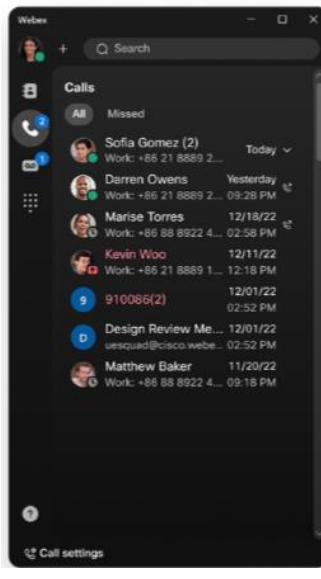
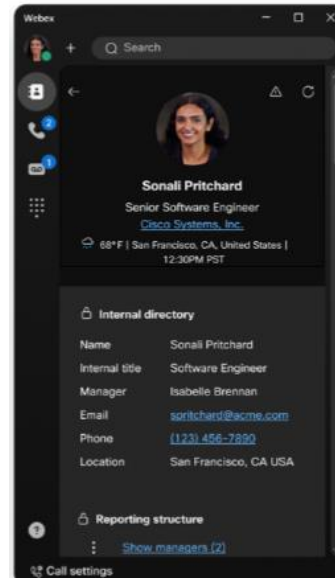
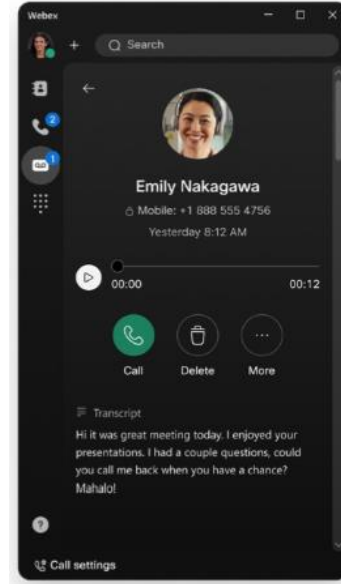
Backlog

Dual Screen experience

- Seeing participants across 2 screen on dual screen devices

Closed Captions

Webex Calling for Google Chrome



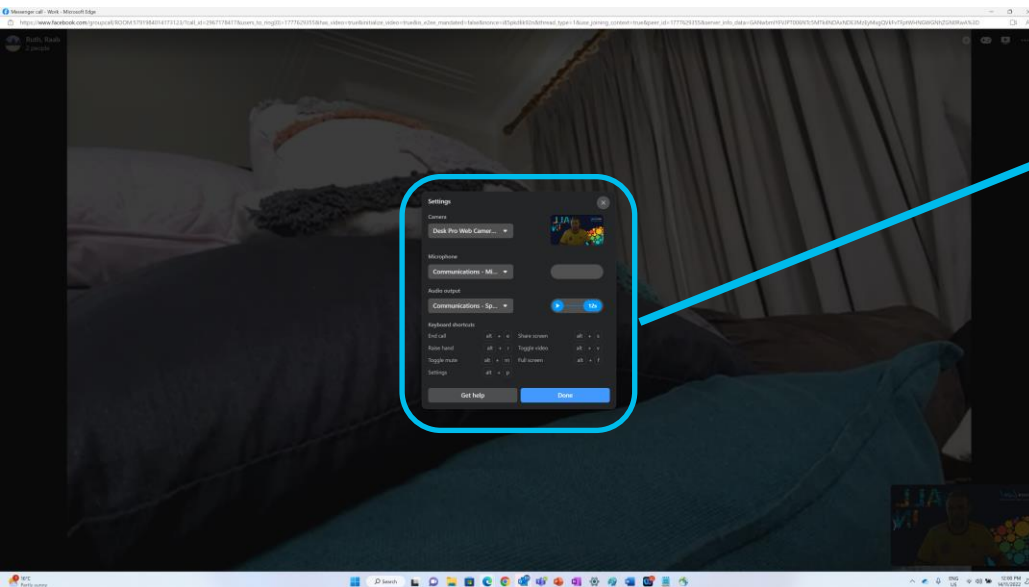
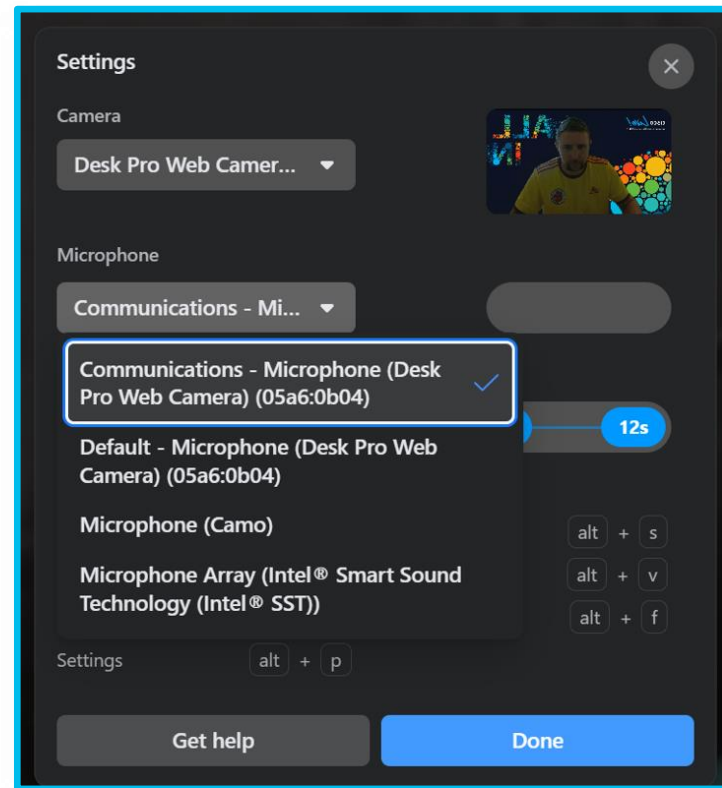
USB Pass-through



USB Passthrough

- Join any meeting from your laptop via USB Cable
- Supports intelligent video with best overview and frames!
- Uses sensors for people count
- Supports audio fencing using built in microphone and delivers premium sound
- Available natively on Cisco Desk Series, Cisco Board Pro, Room Kit Mini, Room Bar and Room EQ
- Other devices support with 3rd party hardware

The best Facebook video call..... ever



Summary

5 key takeaways

- Device for every space
 - Desk, Meeting Room and Auditorium+
- Consistent user experience
 - Same OS, Noise Removal, Intelligent camera
- Amazing ways to share
 - Miracast + AirPlay
- Join any meeting
 - Google + Zoom
- Future proof investment

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insights about your unique questions
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Thursday	9:30am – 4:00pm
Friday	10:30am – 1:30pm

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The bridge to possible

5

Thank you

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The Cisco Live! logo, featuring the word "CISCO" in a dark blue, sans-serif font, followed by "Live!" in a dark blue, cursive script font.

CISCO *Live!*

The text "Let's go" in a dark blue, sans-serif font, positioned to the left of a bright, multi-colored sunburst graphic that radiates from the right side of the image.

Let's go

#CiscoLiveAPJC