

CISCO *Live!*

ALL IN

#CiscoLiveAPJC



The bridge to possible

Cisco Devices and 3rd Party Meeting Integrations

Join any meeting from a Cisco video endpoint

Robert McAffery Technical Solution Architect
BRKCOL-2094



#CiscoLiveAPJC

Cisco Webex App

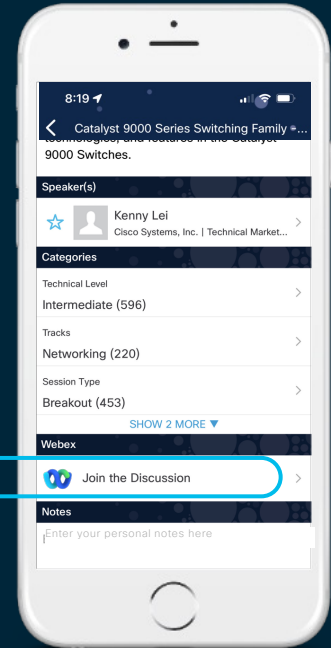
Questions?

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 Thursday 22 December, 2022.



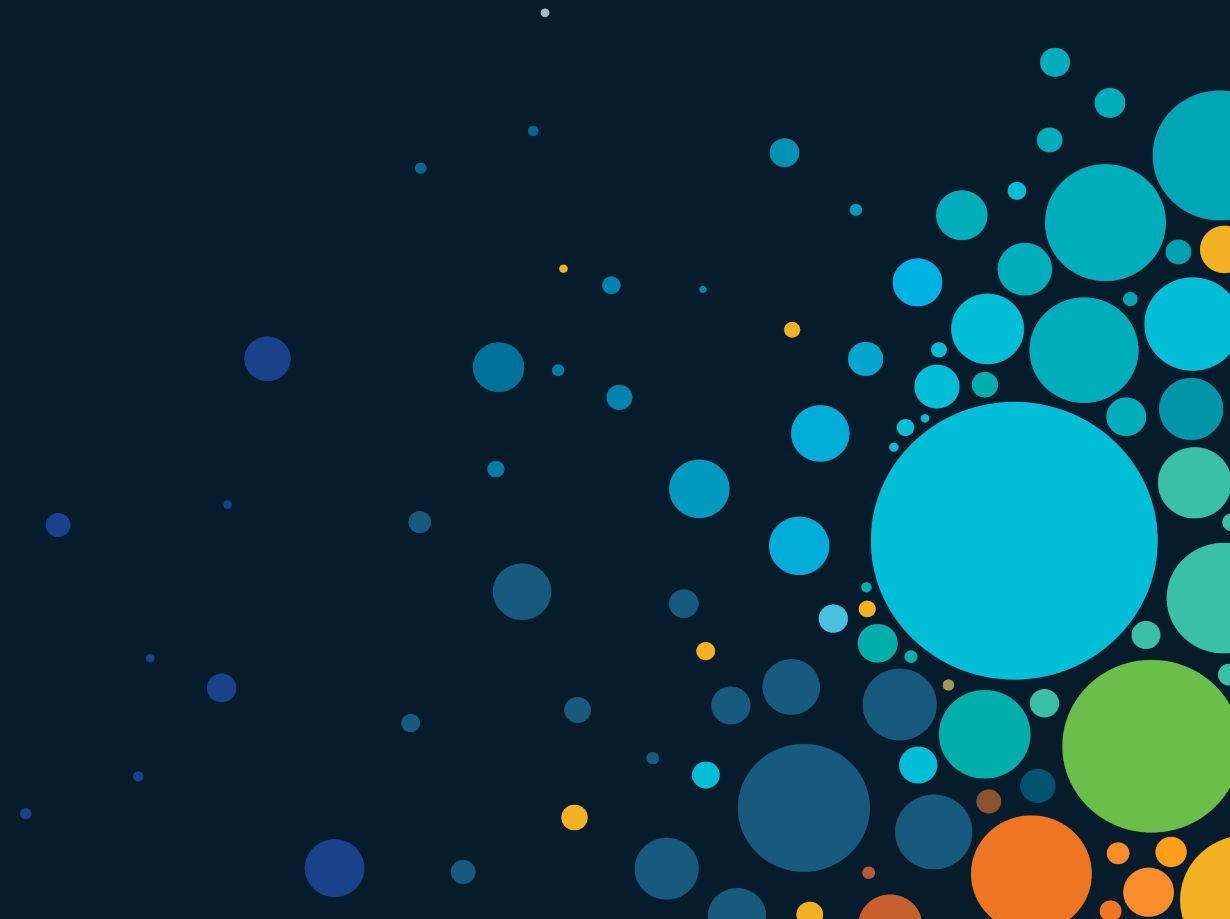
<https://cicolive.ciscoevents.com/cicolivebot/#BRKCOL-2094>



Agenda

- Introduction
- Overview of Cisco video devices & features
- How to Join a Zoom Meeting
- How to join a Google Meeting
- What else can we join?
- Summary

Introduction

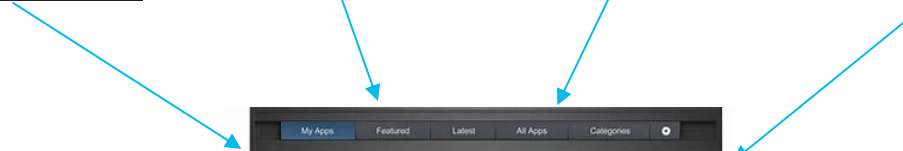


Who is Robert?

- Has been working in UC and collaboration for 16 years
- Worked in support, engineering and pre-sales – for customers & partners
- Worked in Cybersecurity for 2 years but came back to Collaboration... my first love
- Had a really (REALLY!) terrible moustache for Movember



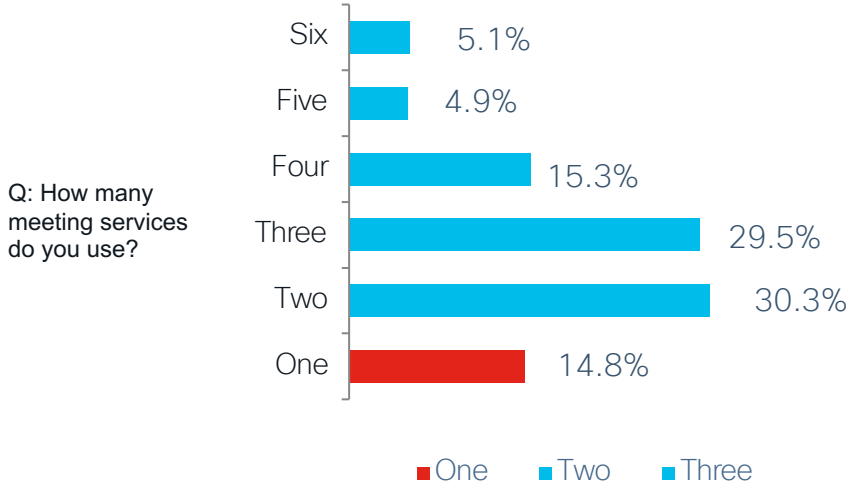
In a world.....



.....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

Optimised for one vendor experience

Optimised for one workload at a time

Optimised for in-room experience

Going forward

Optimised for multi vendor experiences

Optimised for multi workloads at a time

Optimised for in-room and remote experiences

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

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 Kit

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 via Codec – additional camera, screens & AV setup

Dual screen support + extra mic support
Frames, Speaker Tracking, AirPlay and Miracast OBTP & Content sharing, room control using Navigator

Room Series

Devices specifically built for spaces, expansion, customisation and great user experiences – both in room and remote participants.

A device for any space.

Room USB



USB video bar optimised for BYOD in small meeting rooms

Room Bar



Codec-powered, intelligent video bar optimized for small meeting rooms

Room Kit



Codec-powered, intelligent video bar for medium meeting spaces

Room Kit EQ



Ultimate collaboration kit optimized for large workspaces

Room Kit Pro



Specialist collaboration kit optimized for very large spaces and custom AV scenarios

Cisco Room Bar

- Single and dual-screen support
- Wide-field-of-view, UHD camera
- Dual stereo speakers for spatial sound
- 4-element, noise-cancelling microphone array
- Speaker tracking and intelligent views
- External microphone input for extended pickup range
- USB-C and HDMI passthrough and content sharing
- Third-party video interoperability to join Zoom, Microsoft Teams and Google Meet.
- 4K content sharing, dual content sources
- Unified management and analytics



The Room EQ

Codec Plus vs Codec EQ



Up to
4x better CPU for smooth, frictionless functionality

Up to
120 frames per second 4K encode for fluid, high-resolution video & content

5 Ethernet ports to connect more mics, cameras, and other room accessories

16GB memory for 4x better performance when running applications

3 external screen HDMI connection for rich video and content experiences

4 USB-A ports for mics and to power future use cases (touch screen, USB cameras)

Up to
20x faster AI/ML engine to power intelligent future workflows

Wifi6 support for faster connectivity, powered by external antennas

1 USB-C port for seamless passthrough and content sharing (BYOD mode)

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

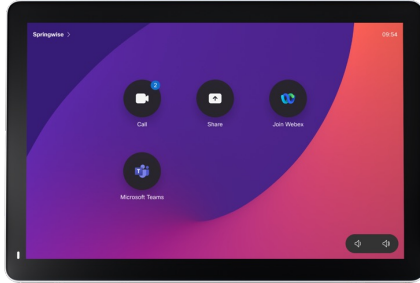
Device + camera for every space

Inclusive presentations and hybrid events

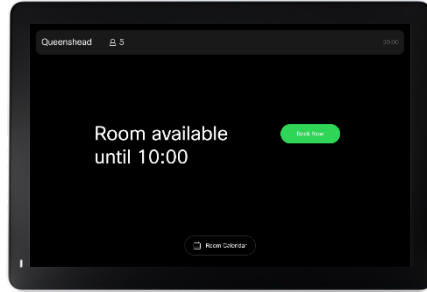
Smart presenter tracking powered by the Quad Camera and the PTZ 4K Camera helps to connect local presenters with remote audiences for more engaging meetings, trainings and events where no one gets left behind.



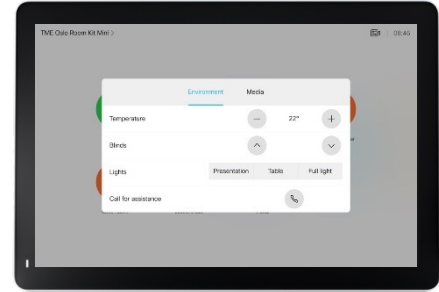
Room Navigator



Conference control



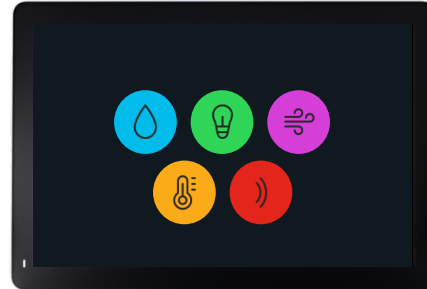
Room booking



Room control



Kiosk/Signage/Web



Sensors

RoomOS 11

With RoomOS 11, use your devices like you want to by running multiple apps at the same time and switching with ease between them; in-call or out.

Designed for easy use and consistent user experience – on all our video devices.



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



Integrated sensors

- People presence detection
 - Detects space occupancy through Ultrasound
- People count
 - AI supported head detection
- Ambient noise and sound levels
 - Ambient noise estimation
- Temperature for Control Hub analytics reporting
- Humidity for 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
 - xAPI commands

Utilization and Environment



Occupied



Occupants



Sound Level (dBA)



Ambient Noise
(dBA)



Temperature
(°C/°F)



Relative Humidity
(%)

Workspace Utilisation in Control Hub

- Utilisation metrics and
- Environment Metrics

4 people | Device idle - Vacant | Edit | Delete

Latest
Off

it API Access | + Add Device

Real-Time Utilization Metrics

- Idle Devices: 0
- Occupied: No
- Occupants: 0

[View Details](#)

Real-Time Environmental Metrics Beta

- Sound Level (dBA): 33
- Ambient Noise (dBA): 26
- Temperature (°C/°F): 21/70
- Relative Humidity (%): 53

[View Details](#)

See history

confroom20@ucdemolab.com

Hybrid Calendar, Call, & Message

Intelligent Workplace Meeting Room Capacity: 6 people

Utilization Metrics Environment Metrics

Insights

Average Occupancy	Max Occupancy	% Capacity	Time in use
2.1 ↑ 62%	8 ↑ 33%	35% ↑ 62%	2.7 hrs
All Meeting Room types: 31	All Meeting Room types: 8	On average	Total

Data Sources

- Occupancy Sensor
- Presence Sensor

Occupancy Metrics

Max Occupancy (Dark Green) Average Occupancy (Light Green)

Bar chart showing occupancy metrics over time (September 19th to 20th).

Intelligent Workplace Meeting Room Capacity: 6 people

Utilization Metrics Environment Metrics

Sound Temperature Relative Humidity

Insights

Average Temperature	Min Temperature	Max Temperature
22.3 °C	21.5 °C	23.9 °C ↑ 2%
All Meeting Room types: 22.8	All Meeting Room types: 21.5	All Meeting Room types: 23.8

Data Sources

- Temperature Sensor

Temperature Metrics

Average temperature (Green line) Min/Max temperature (Blue shaded area)

Line chart showing temperature metrics over time (September 19th to 20th).



Sharing



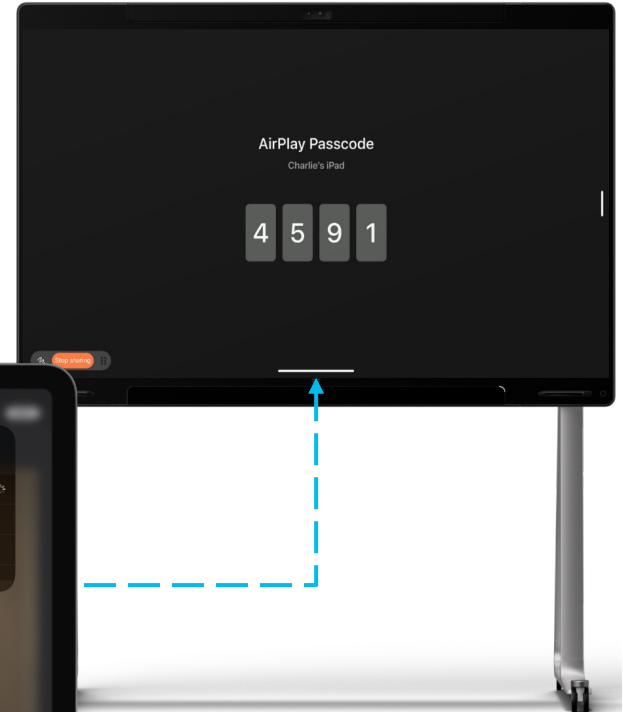
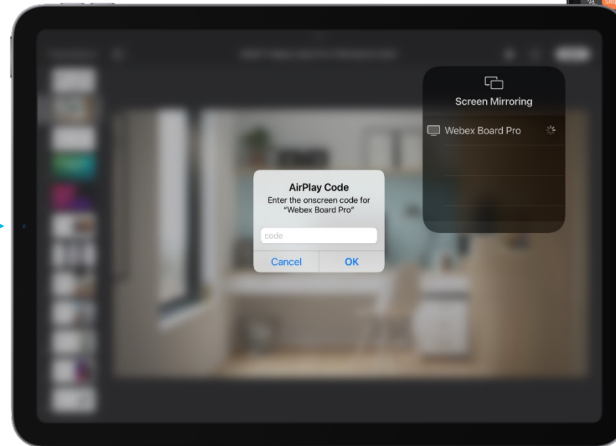
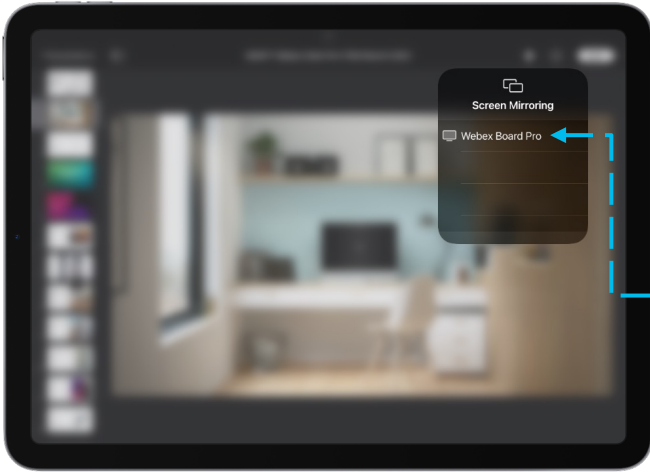
Apple AirPlay is now on Cisco Devices

Sharing content, music and video in and out of calls



Maintain privacy and security

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



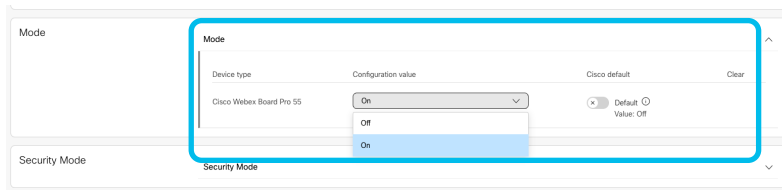
AirPlay deployment options – Control Hub

- 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

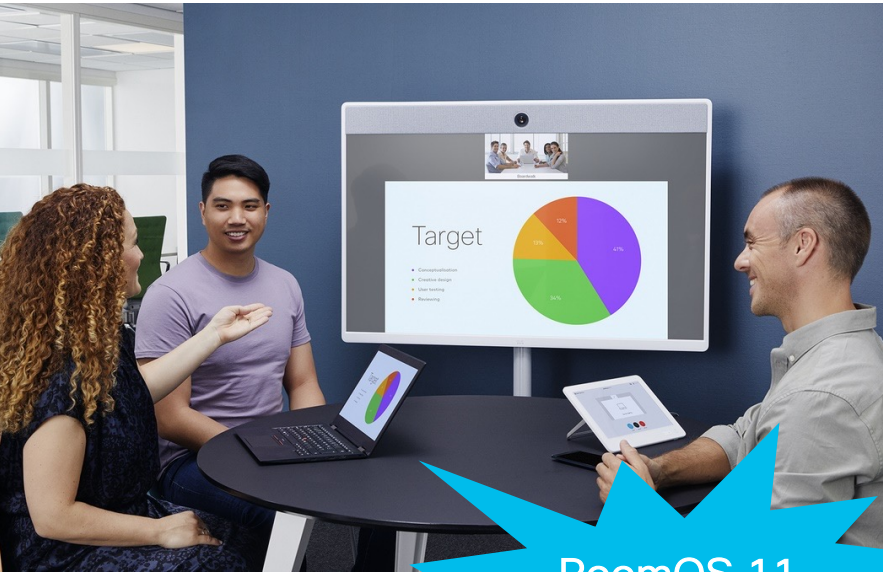
AirPlay will be supported on the following devices

- 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
- Cisco Room Panorama series will be supported later (TBC)

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.
- Using Wi-Fi Direct, a direct network connection is established from laptop to the Cisco Device; no need to connect to guest network or enterprise Wi-Fi.
- 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

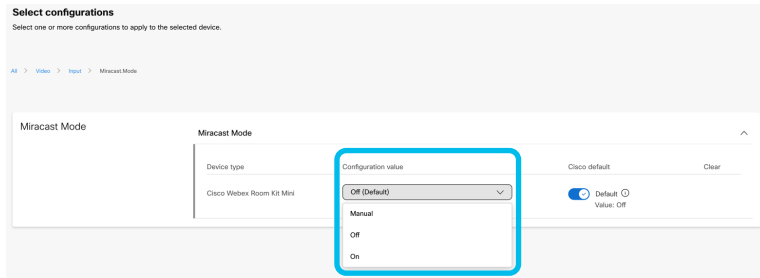
Miracast® support – The network details

- 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

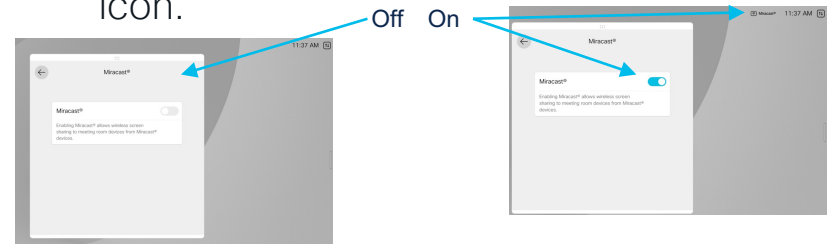
- Admin controlled

- 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

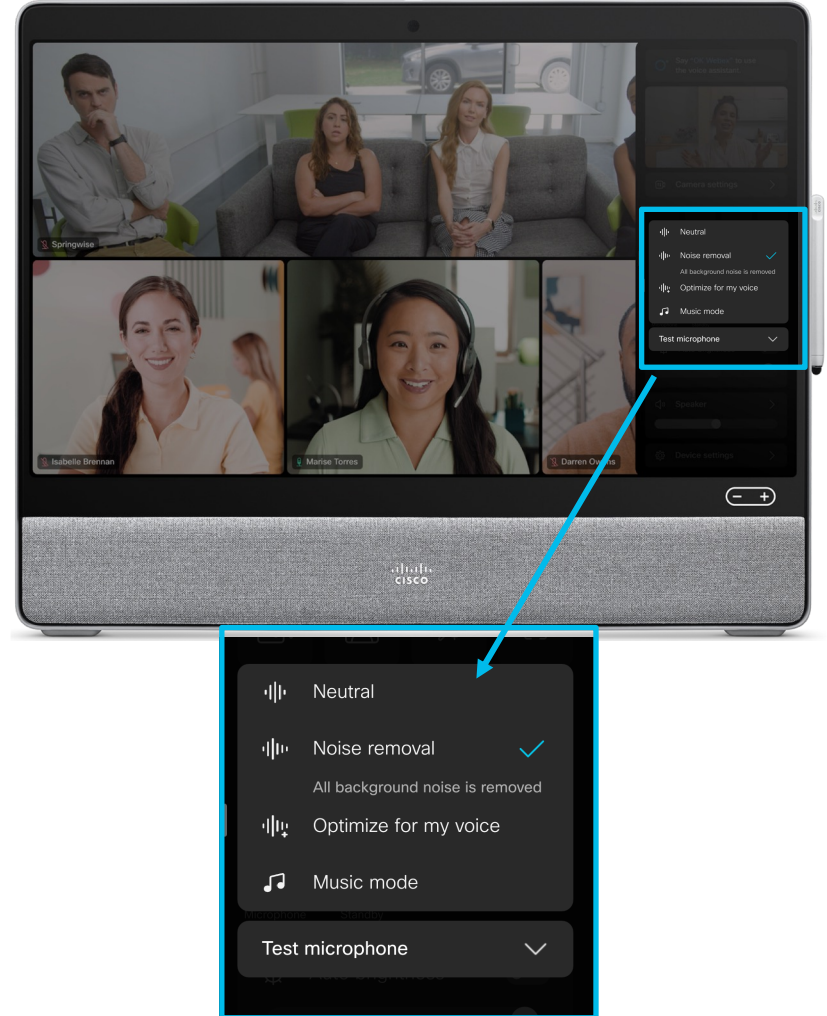
- If the administrator wants the end user to control Miracast availability, set the Miracast Mode to Manual from the device configuration in Control Hub.
- The Default Value is Off.
- With Miracast Mode turned to Manual, the end user will be able to turn it on or off from the UI. With it turned off,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



Intelligent Device Features

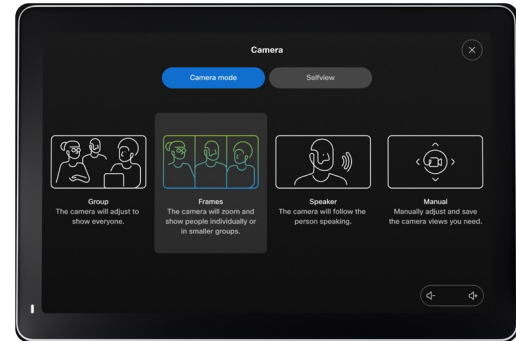
Noise Technology

- 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



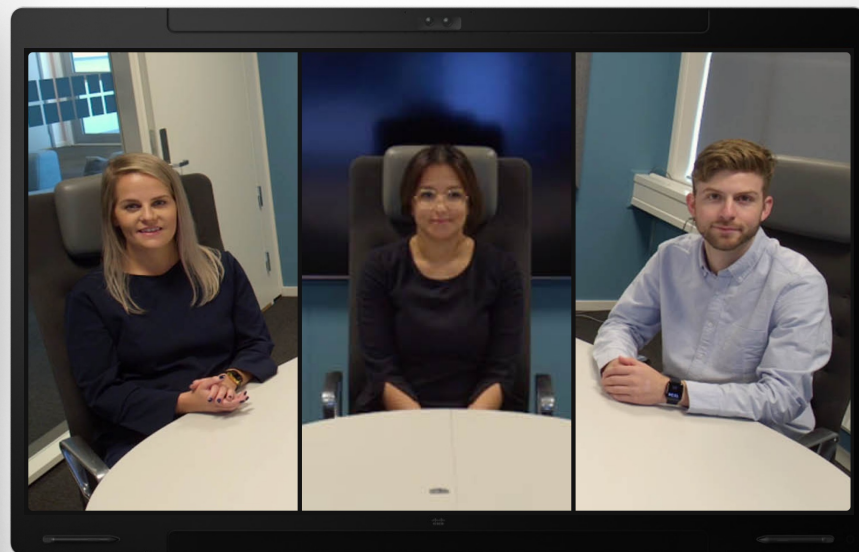
People Focus

Making sure you see the person and not the space



Framing

On the device – works on ALL platforms



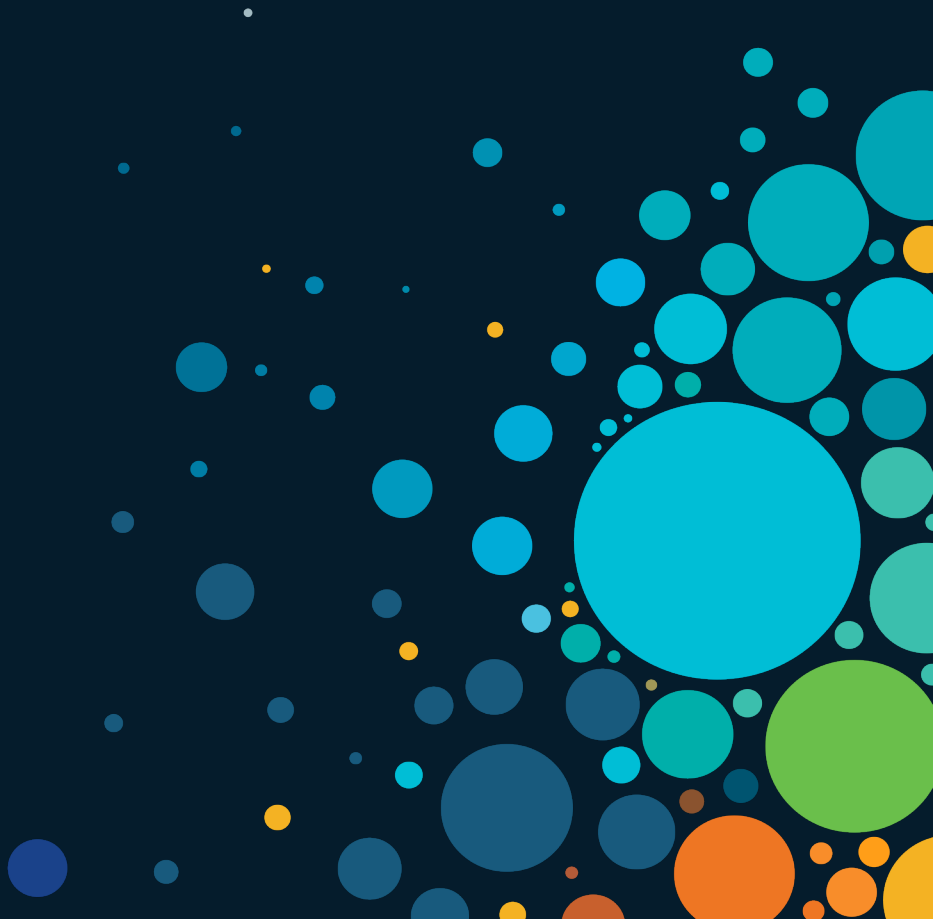
Frames Demo - in a Zoom meeting



Noise Removal - Demo

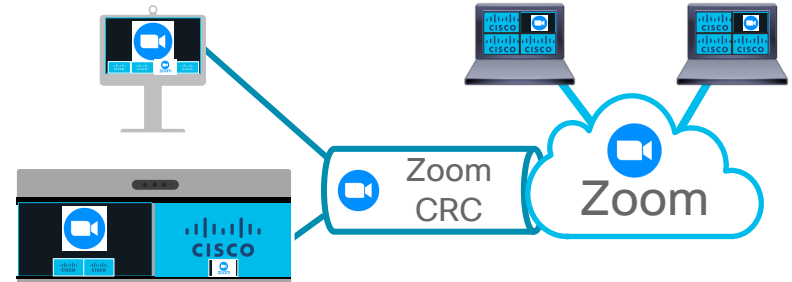


Join a Zoom Meeting



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
- New ZoomUI for RoomOS 11



Zoom Interop Features

Available



All the local Cisco devices features

Noise removal

Best overview

Speaker/Presenter tracking

Virtual

Background

Mute/unmute

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 join Zoom

meetings from SIP video

devices



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



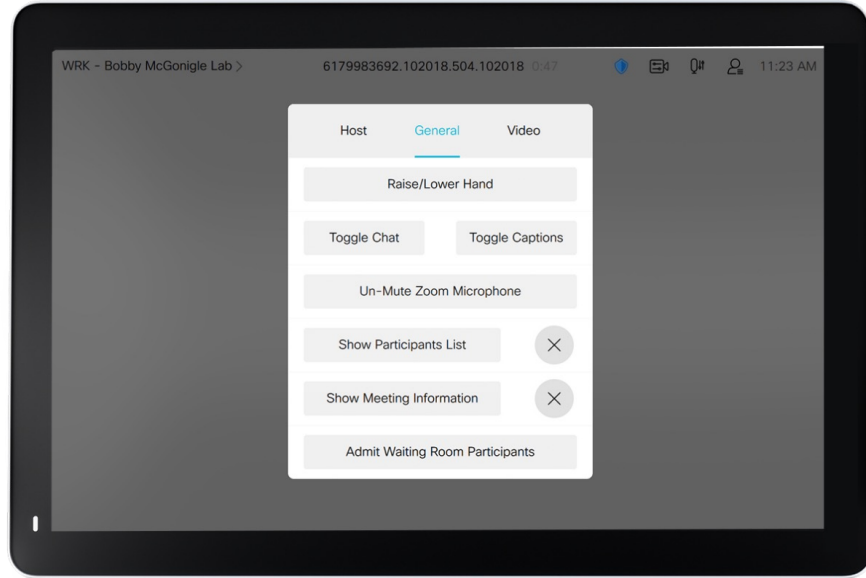
Start/stop recording

Available through DTMF

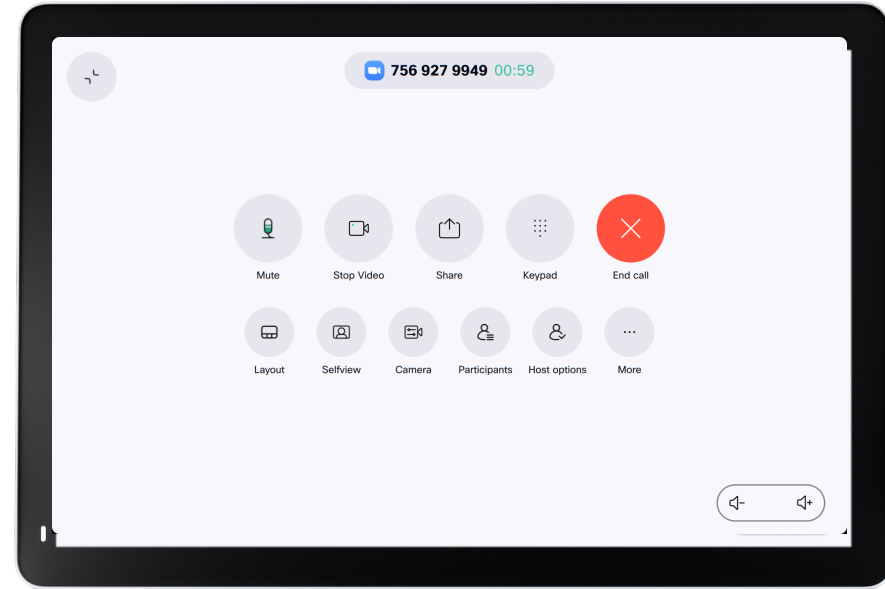
tones/macros

Or new ZoomUI

RoomOS 11 - Zoom in meeting controls

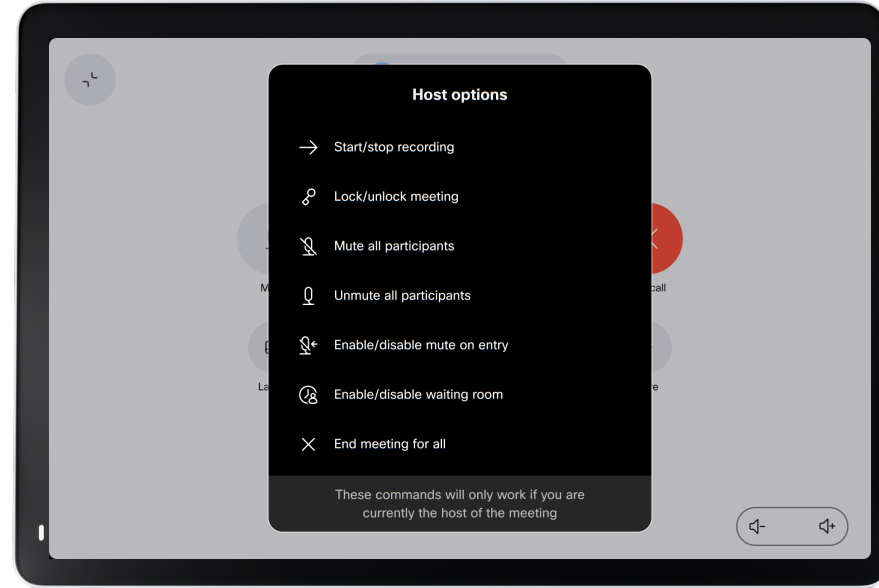
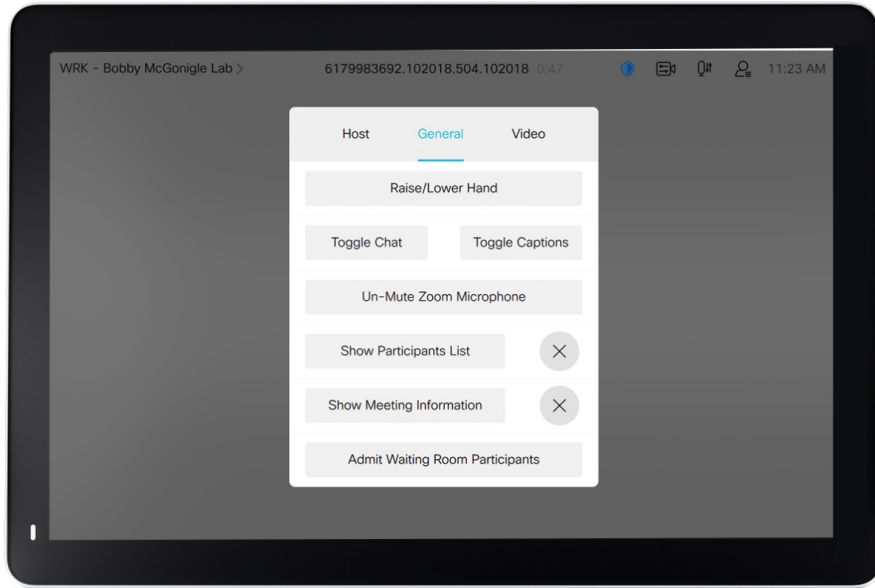


RoomOS 10 Macro UI



Zoom UI (built into RoomOS 11)

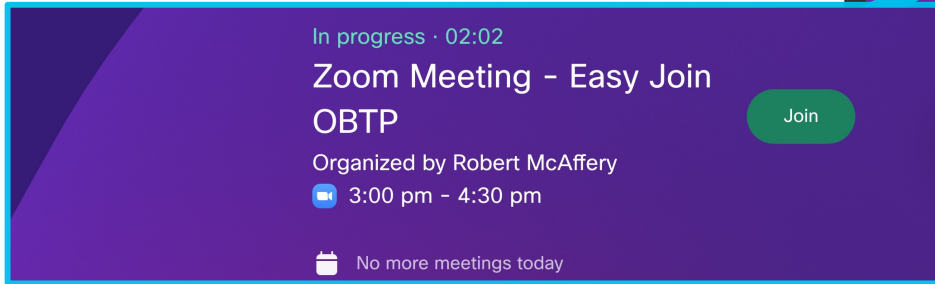
RoomOS 11 - Zoom in meeting controls



RoomOS 10 Macro UI

Zoom UI (built into RoomOS 11)

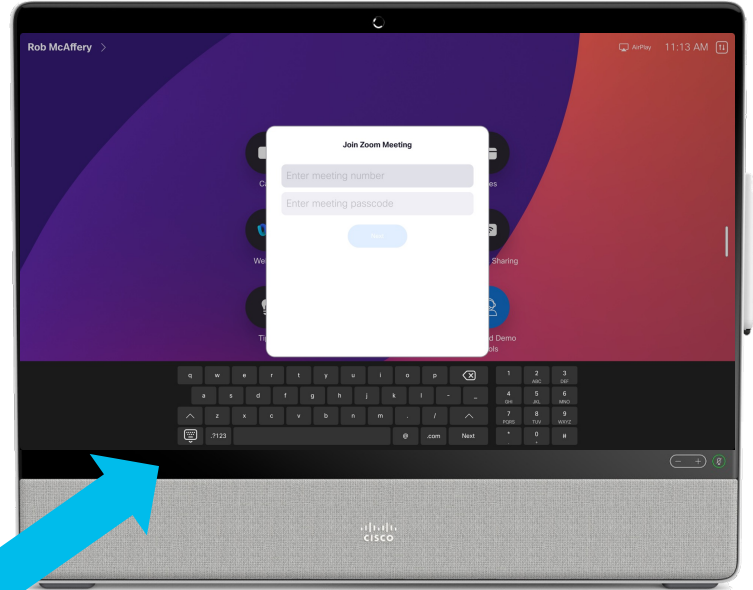
Join Zoom with OBTP



RoomOS 11 – Zoom Button



RoomOS 11 Zoom Button



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

Enabling Zoom Calling Toggle

The screenshot shows the Cisco Webex Control Hub interface. On the left is a navigation sidebar with sections for MONITORING (Webex Experience, Analytics, Troubleshooting, Reports) and MANAGEMENT (Users, Workspaces, **Devices**, Apps). The main content area is titled 'Devices' and has tabs for Devices, Templates, Settings (selected), Software, My alerts, and Resources. Under the Settings tab, there are three sections: 1) 'Gives third party meeting providers access to the device camera and microphone.' with toggles for 'Enable Microsoft Teams' and 'Enable Google Meet' (both enabled), and a note 'Interoperability token not set' with an '+ Add token' button. 2) 'Supported devices' with a toggle for 'Enable Zoom' (enabled), which is highlighted with a blue box. 3) A descriptive paragraph: 'Interoperability service lets users join the meeting without waiting to be admitted as a guest. 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.'

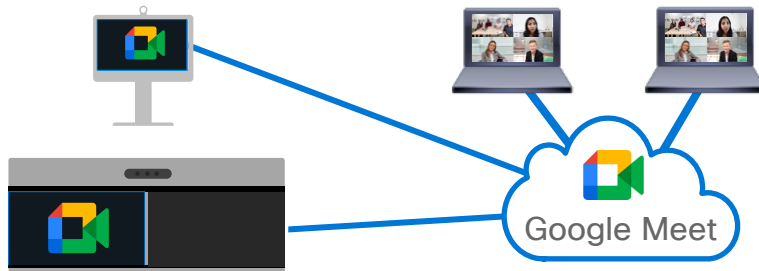
Join Zoom button (easy meeting join) can be enabled on Cisco Control Hub

Demo of Zoom RoomOS 11 UI

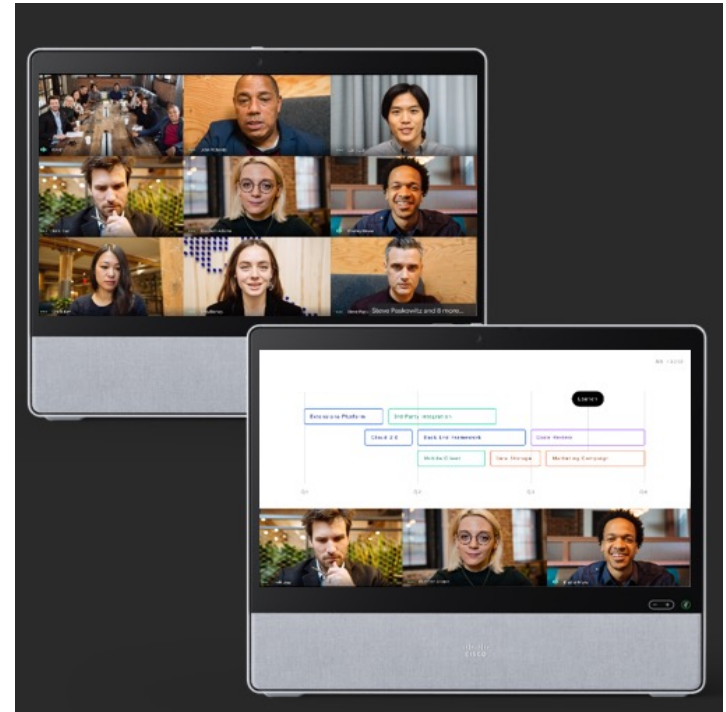


Join a Google Meeting

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



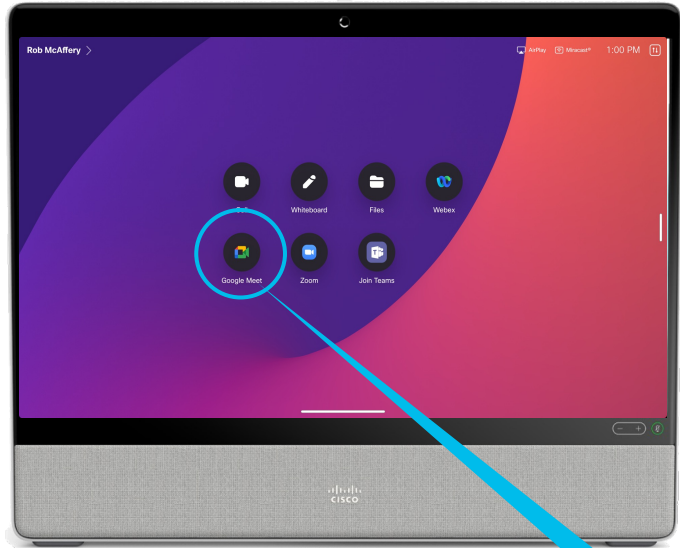
Join Google Meet with OBTP



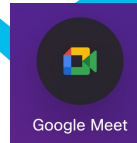
Starting in 5 minutes
Google Meet Interop with OBTP
Organized by Rob McAffery
🕒 12:45 pm - 6:15 pm

Join

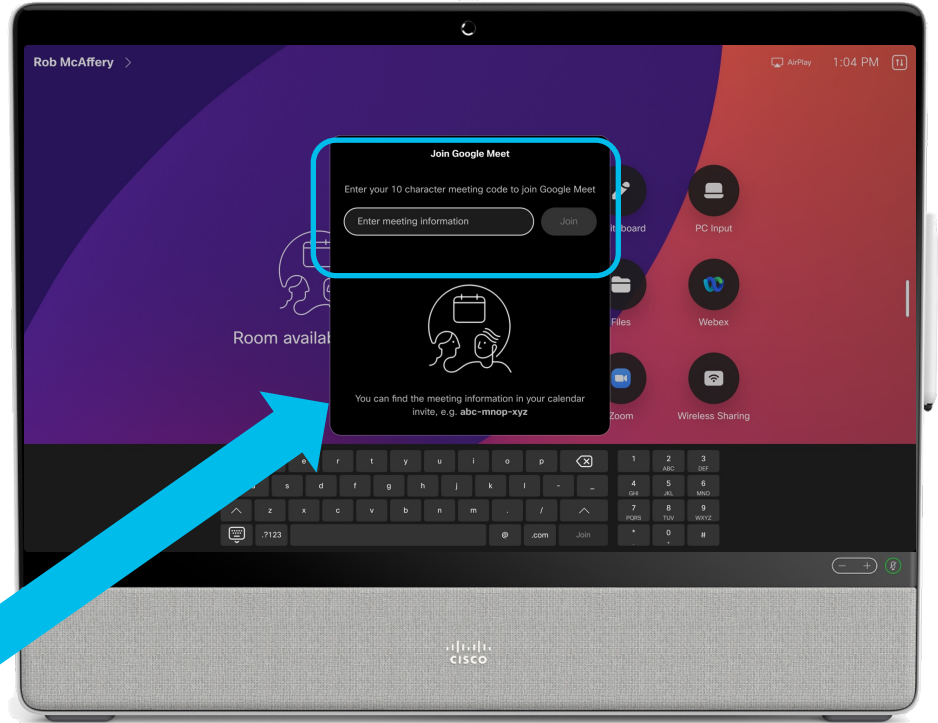
Google Meet - Joining by Meeting ID Meetings



Google Button

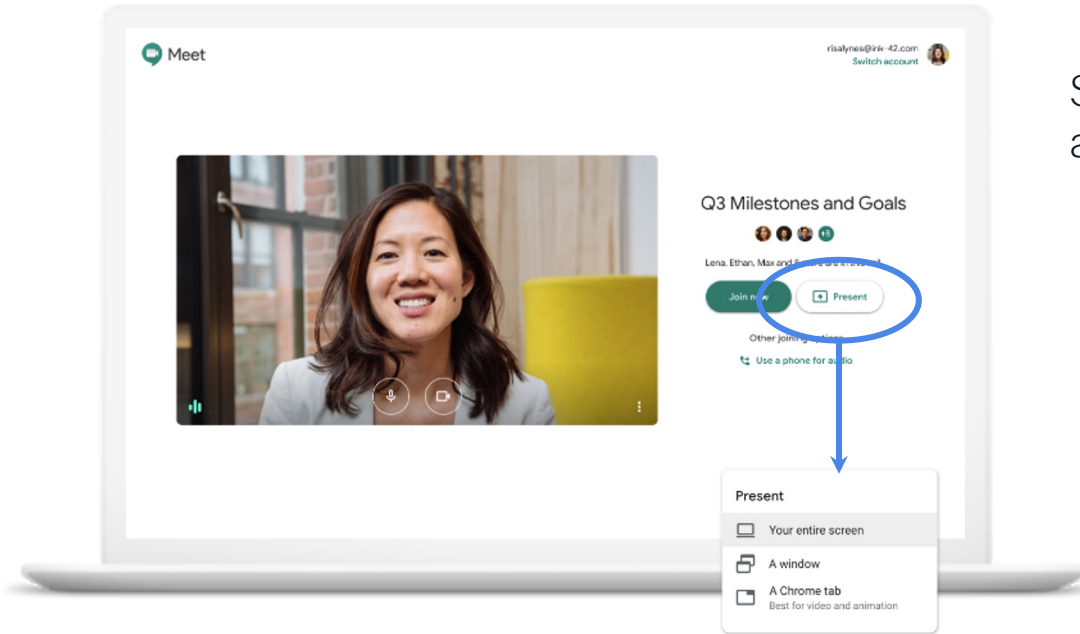


Google Meet



Join with 10-digit meeting code

In Meeting Experience – Content sharing



Sharing content is available from another laptop or mobile device

- 1) Click on the scheduled meeting on your personal device
- 2) Choose **Present** instead of **Join now**

Admin experience - Control Hub

- Overview
- Getting Started Guide
- Alerts center
- MONITORING
 - Analytics
 - Troubleshooting
 - Reports
- MANAGEMENT
 - Users
 - Workspaces
 - Devices**
 - Apps
 - Account
 - Organization Settings
- SERVICES

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 easier 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.

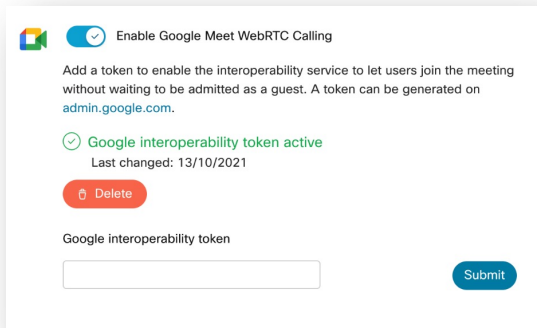
- Enable Microsoft Teams
- Enable Google Meet

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



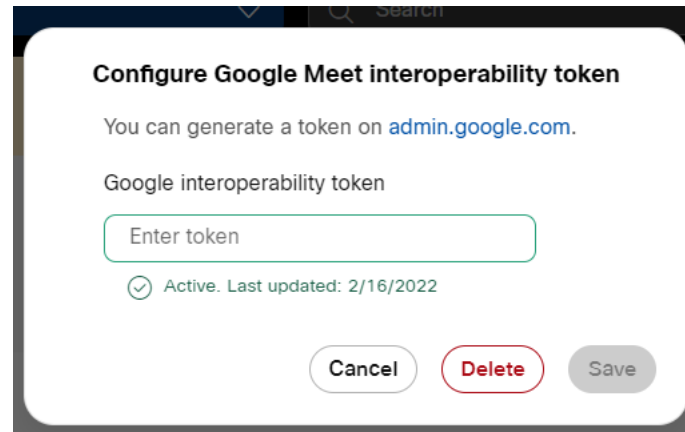
- Must be a paid Google Workspace service
- In the Admin console, go to Menu >Apps>Google Workspace >Google Meet.
- Click Interoperability tokens >Add a token.
- Select Cisco from the dropdown menu.
- Enter a token name for your own reference and click Create a token.
- Copy the token to your clipboard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

Admin

Search for users, groups or settings

Apps > Google Workspace > Settings for Google Meet > Interoperability tokens

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
Pexip	CiscoWebexInterop	Oct 13, 2021	On
Cisco	WebRTC	Nov 29, 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
- Webex App (coming soon)

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

Subject
to change

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

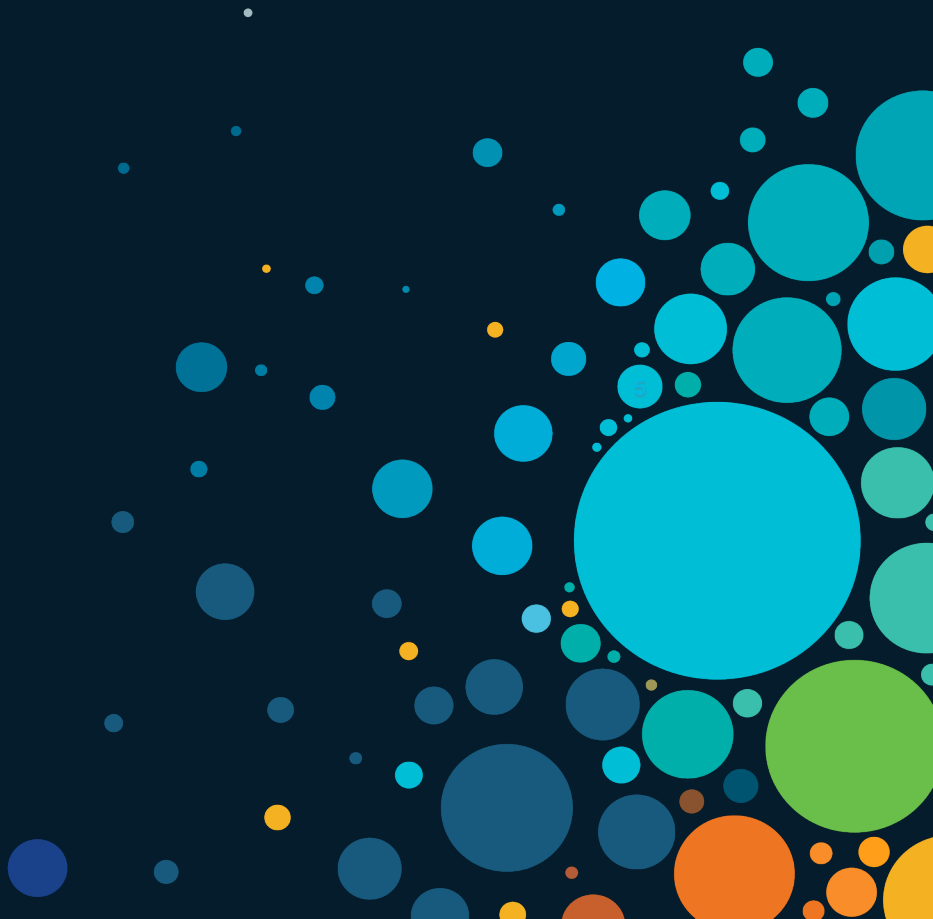
Backlog

Dual Screen experience

- Seeing participants across 2 screen on dual screen devices

Closed Captions

USB Pass-through

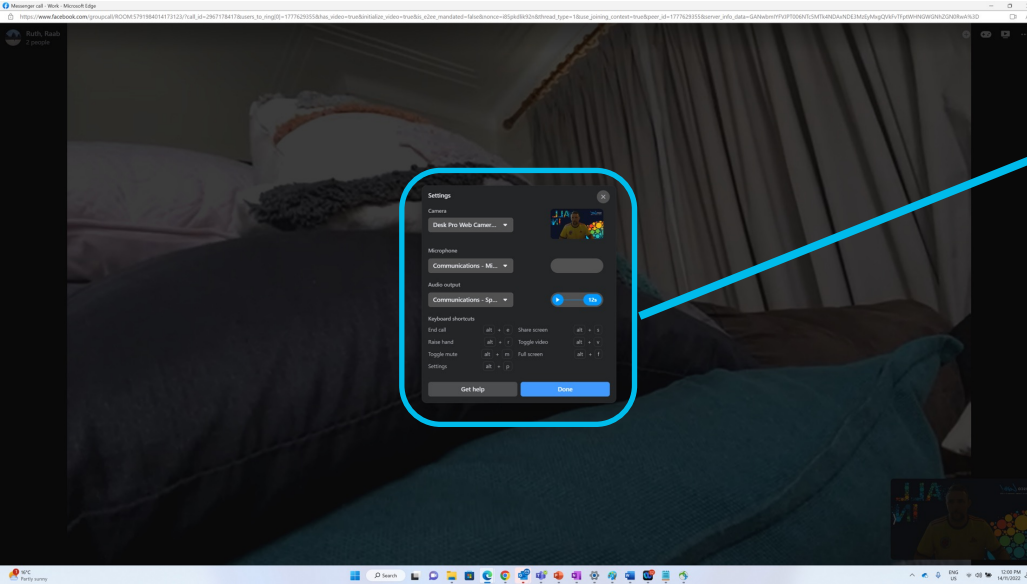




USB Passthrough

- 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



Settings

Camera
Desk Pro Web Camer... ▼

Microphone
Communications - Mi... ▼

Communications - Microphone (Desk Pro Web Camera) (05a6:0b04) ✓

Default - Microphone (Desk Pro Web Camera) (05a6:0b04) 12s

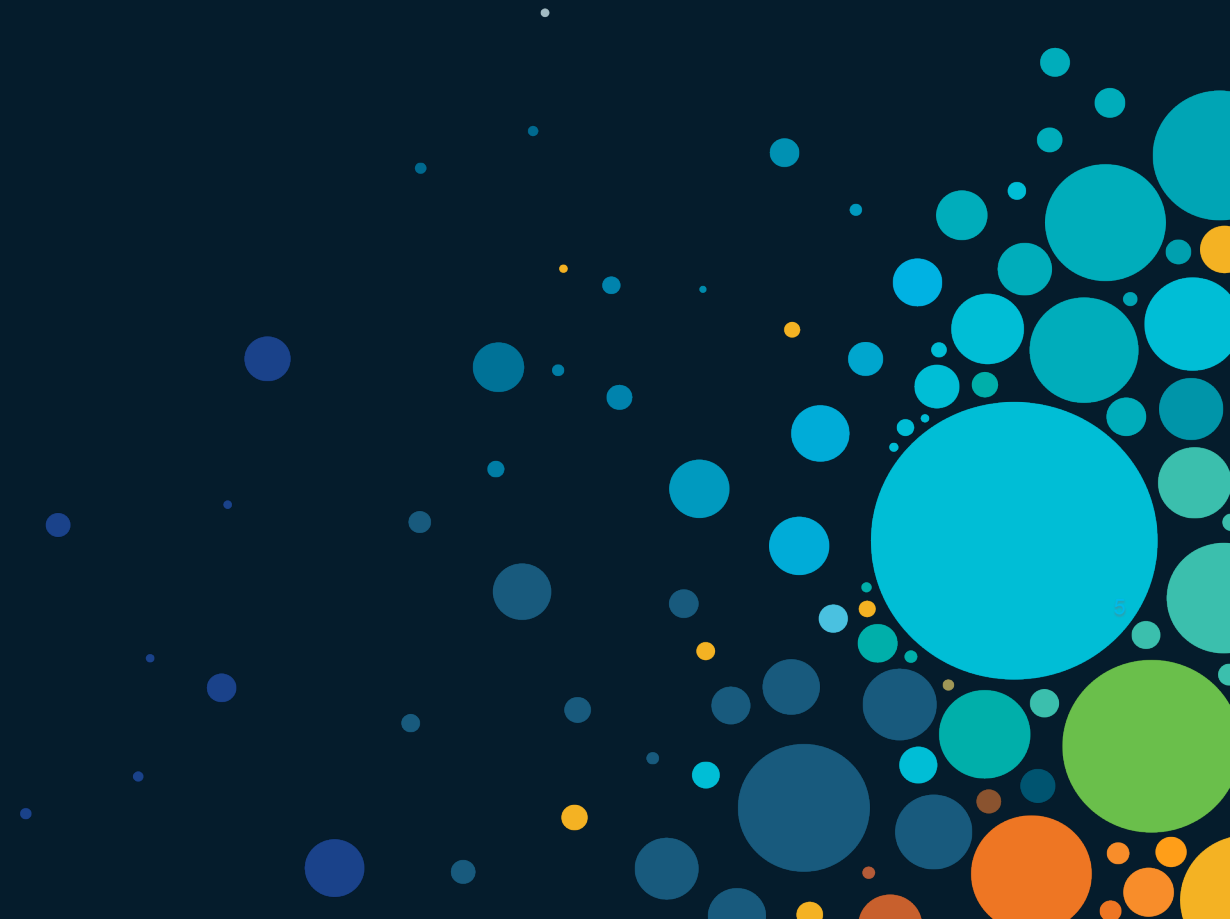
Microphone (Camo) alt + s

Microphone Array (Intel® Smart Sound Technology (Intel® SST)) alt + v alt + f

Settings alt + p

Get help Done

Summary 5



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

Session Surveys

We would love to know your feedback on this session!

- Complete the session surveys in the Cisco Events mobile app. You'll earn some points in the Cisco Live Game and potentially win a prize.
- Complete a minimum of four session and the overall event surveys to claim a Cisco Live cable bag.

Continue your education



Visit the Cisco Showcase for related demos



Book your one-on-one Meet the Expert meeting



Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs



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(CLCs) are prepaid training vouchers redeemed directly with Cisco.

Learn

Cisco U.

IT learning hub that guides teams and learners toward their goals

Cisco Digital Learning

Subscription-based product, technology, and certification training

Cisco Modeling Labs

Network simulation platform for design, testing, and troubleshooting

Cisco Learning Network

Resource community portal for certifications and learning

Train

Cisco Training Bootcamps

Intensive team & individual automation and technology training programs

Cisco Learning Partner Program

Authorized training partners supporting Cisco technology and career certifications

Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product, technology, and certification courses

Certify

Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

Cisco Guided Study Groups

180-day certification prep program with learning and support

Cisco Continuing Education Program

Recertification training options for Cisco certified individuals



The bridge to possible

Thank you

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ALL IN

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