



Future Proof the Workplace

Reimagine Workspaces: Cisco's Vision for AI Powered Devices

Speaker Details

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Safe harbor statement

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Cisco Devices

Rules of Engagement and Agenda

Rules of Engagement

Color Coded

Graphical Aids

Something to take home

Technical, not too technical

Some forward-looking content included

Not going to specify dates. Some features still in beta

Agenda

Important Notification

(Quick) Devices Review

Peripheral Update

AI/ML features

Room Design

3rd Party Meeting Integration

MISC

End of Life Notification

Important dates and lifecycle

Devices will lose access to cloud services when they reach the **End of Vulnerability/Security Support** dates as stated in their respective End of Life announcements.

Notification in Control Hub

Products (**SX Series, MX Series and DX**) that have already passed or will pass the End of support date by **June 1, 2025**, will not be able to consume cloud services after this date.

This affects **both Cloud and Webex Edge for Devices** registered devices

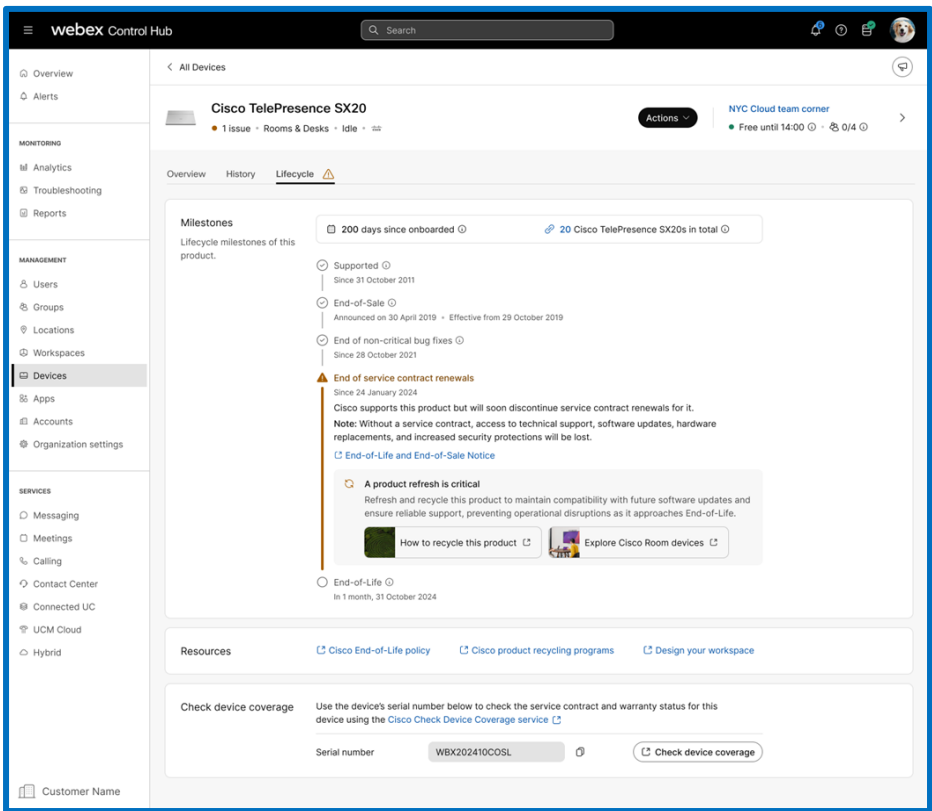
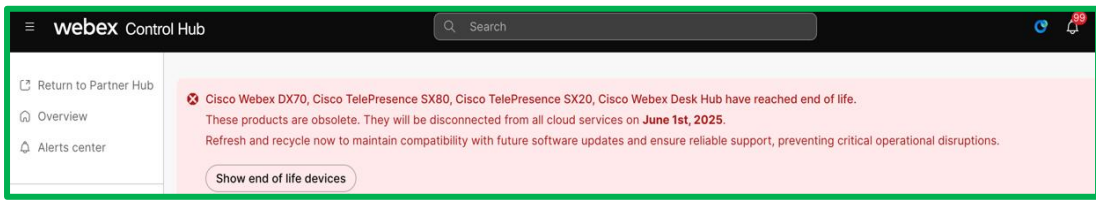
Moving forward (now in beta)

Control Hub will now show relevant points of the lifecycle for RoomOS devices. Admins will be notified about all steps shown in UI in the Lifecycle from End-of-Sale Notice to Out-of-Support.

Lifecycle Management will provide suggested actions and resources for relevant steps in the product lifecycle.

Devices supported at beta:
SX10, SX20, SX80, SX80

Additional devices will be added continuously.



Devices Review

Current Video Device Portfolio

Shared and Personal Devices



Cisco Room Bar



Cisco Room Bar Pro



Cisco Board Pro G2



Cisco Room Kit EQ



Cisco Room Kit EQX



Desk Pro



Desk



Desk Mini

Webex Room Bar

Webex Room Bar

Integrated, codec-powered video bar with flexible mounting options (flappable), optimized for small room

Dual-screen support, single 3rd party touch screen

Wide FoV (120°), UHD 12MP camera, 1080p30fps video, 4K content sharing

Dual stereo speakers for spatial sound

4-element, noise-cancelling microphone array (& 4 dedicated microphone Speaker tracking with intelligent views)

Optional External microphone

1 Analog or 1 Cisco AoIP stream (1 Cisco Mic Pro and Ceiling Mic Pro)

USB-C and HDMI content sharing

USB passthrough, BYOD

No Navigator needed anymore (register as normal, remove nav, configure for BYOD)

xCommand UserInterface Beta ByodLimited Allow

Environmental Sensors (People Presence/Count, Ambient Noise, Temperature)



Cisco Room Bar Pro

Integrated, powerful video all-in-one collaboration bar featuring a NVIDIA chipset with embedded AI. Medium to large spaces.

Internal power supply

96MP dual camera with 112° FoV with motorized tilt (17 °) with 5x zoom. AI Virtual Lens extending range to 26 ft

Supports three screens for video and content. 1080p60fps video, 4k15fps content

One 3rd party touch screen (with 2nd screen added if desired)

Internal beamforming, noise cancelling microphone array.

AES67 Speaker and 64 channel (8 stream) Capable external Ethernet microphones.

3-channel loudspeakers for clear stereo sound

Dual wired content sources

USB passthrough for instant BYOD meetings

Environmental Sensors (People Presence/Count, Ambient Noise, Temperature, Air Quality)



Cisco Board Pro G2

Fully integrated **room system** and whiteboard with AI processing (NVIDIA chipset).
55in and 75in models available.

Board Pro G1 and Bar Pro has baby = Board Pro G2

2 additional screens and 1 camera control port

Wide FoV (120°), UHD 2 x 48MP camera adjustable motorized tilt camera (by 17°).

5x zoom. AI Virtual Lens additional digital zoom

1080p60fps video, 4K content sharing

3.1 directional audio subsystem

14-element, AI noise-cancelling microphone array

AES67 Speaker and 64 channel (8 stream) Capable external Ethernet microphones.

4K content sharing, dual content sources

Environmental Sensors (People Presence/Count, Ambient Noise, Temperature, Air Quality)

4 Mounting options (Wall Mount, Wall Secured (not shown), Floor Stand, Wheel Stand)



Wall mount and wall secured stand options for fixed, unobtrusive room layout



Floor stand for fixed, elegant setup in spaces without wall mount option



Wheel-stand upgrade for flexible configurations, divisible rooms, agile and ideation spaces

Cisco Codec EQ

Packaged 3 ways

Codec EQ Stand-Alone

Refers to the Main Codec chassis. The Codec EQ is included in the Room Kit EQ and Room Kit EQX bundles



Room Kit EQ

The Integrator level Codec EQ Bundle (Quad Cam or PTZ or both)



Room Kit EQX

The All-in-One Codec EQ Bundle. The Room Kit EQX comes with a frame, an integrated Quadcamera, additional speakers and amplifier and a frame that houses the cables and components of the Codec EQ

The bundle does **NOT** come with Displays or Microphones



Cisco Codec EQ

Hardware Details



Most powerful Cisco codec ever - NVIDIA chipset with embedded AI.
Large to training room sized spaces

Kit options with Quad cam or PTZ. Codec natively control up to 3 cameras

3 Screen support, 3 HDMI in, 4 PoE ports (**90w** total PoE Budget)

4K wireless and dual wired content sources

Spacial audio pickup. AES67 Speaker and 64 channel (8 stream)
Capable external Ethernet microphones.

3-channel loudspeakers for clear stereo sound

USB-C passthru

Supports Cinematic Experiences (upcoming slides)

Wall or Rack Mount



Cisco Room Kit EQX

Hardware and Mounting

Integrated Quad Cam

Powered by the Cisco Codec EQ

Dual Integrated Vesa Mounts

Supports 65in to 85in Displays

- 85in displays must be certain thickness

Robust Audio Integration

- 6 additional speakers
- Amplifier
- Subwoofer

3 mounting options:

- Wall Mounted
- Floor Stand
- Wall Stand

Wall/Floor must support at least 120kg (265lbs) plus the weight of displays and other equipment



Cisco Room Navigator

Overview



Table-stand (inside the room) and wall-mount / outside the room versions

Can both operate as **paired** or **standalone** mode (no Cisco video system)

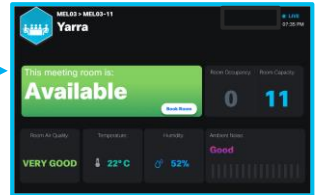
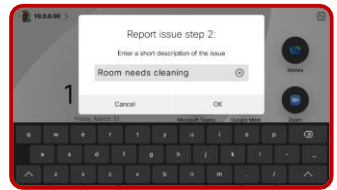
3 "modes" : RoomOS, Microsoft Teams Panel, or 3rd party booking apps (PWA)

Room reservation (Next Slide)

Fully programmable with Macros or web apps

Can be used in Persistent Web App mode

Signage or any web app



Cisco Room Navigator

Booking

Typical booking usage utilizes built-in, license-free Control Hub calendar integration

Shows calendar status, room progress of the room using Calendar integration and AI capabilities

Combined with people count, rooms will show occupied with number of people in the room

Now supports book ahead for ad hoc bookings to start at any available time throughout the current day

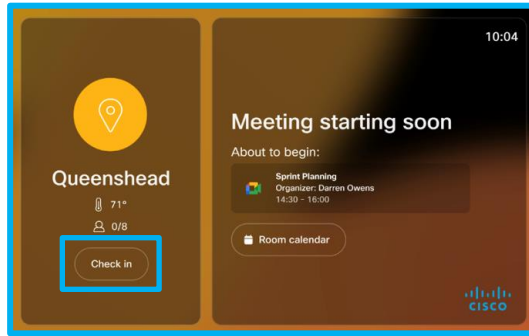
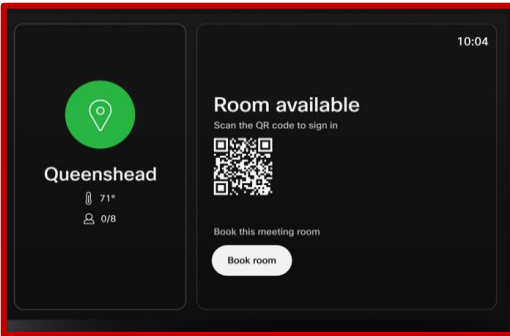
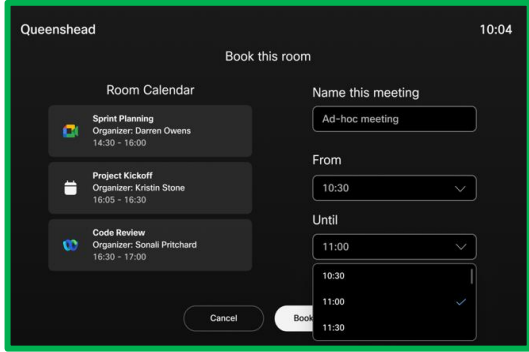
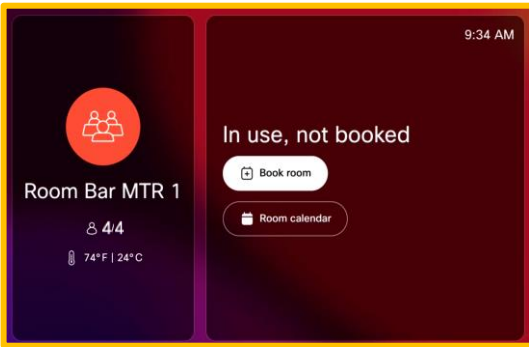
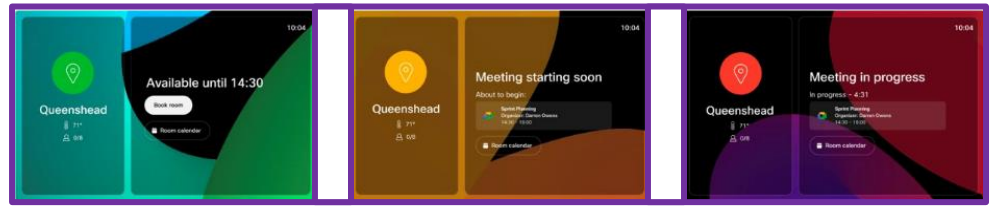
- For convenience free time slots are highlighted
- time slots are configurable with a default of 30min

New, locally stored ad hoc booking (without requiring a calendar integration).

- Nice for non-bookable rooms where ad hoc still makes sense
- Can be stand alone nav, but if in a workspace/hot desking scenario, the nav will reflect status of the person signed in

Eliminate ghost meetings by using intelligent check in feature

- check-in and check out optimizes real estate by freeing the room when attendants do not show up or are done with their meeting
- A check in can be done manually by a press of a button or automatically using people count, sharing a presentation, or simply joining a call
`<xConfiguration Bookings CheckIn Enabled: <True/False>`
- Configurable check in Window (5 up to 60 minutes):
`<xConfiguration Bookings CheckIn CheckInWindowDuration: <5, 10, 15, 20, 30, 60>`
- A check-out action allows user to free up a room for any remaining time at the end of the meeting with a push of a button



Content Sharing

Second to None

Miracast

Microsoft Teams Casting

- MTR only

Apple Airplay

- Now also supported in MTR (new!)

Native Webex app

Cisco proximity

HDMI

USB-C

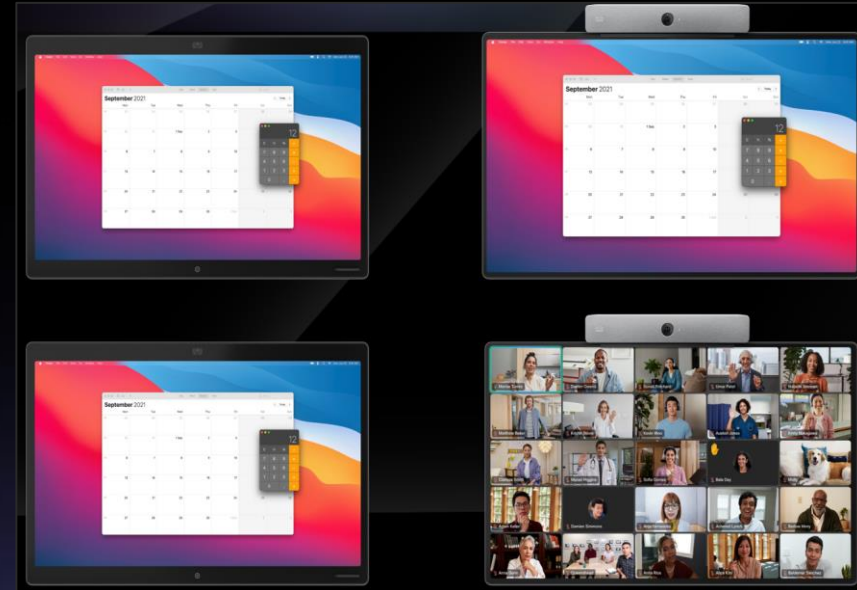
Browser

All of the above, enabled at the same time

Out of Call
Content to both screens

In a Call
Content to companion (no PiP of content on main screen)

Companion Mode



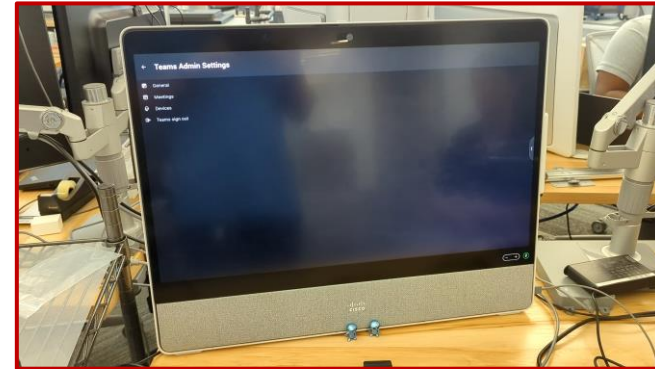
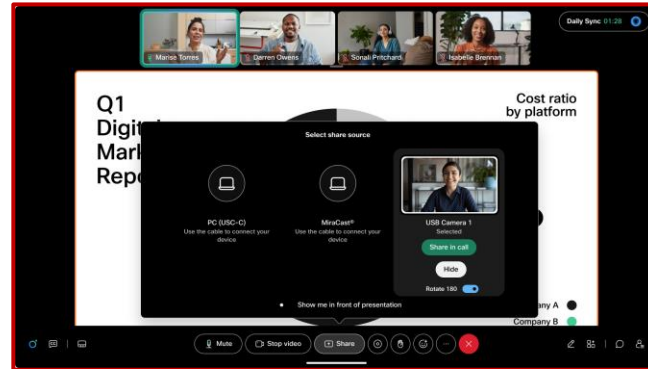
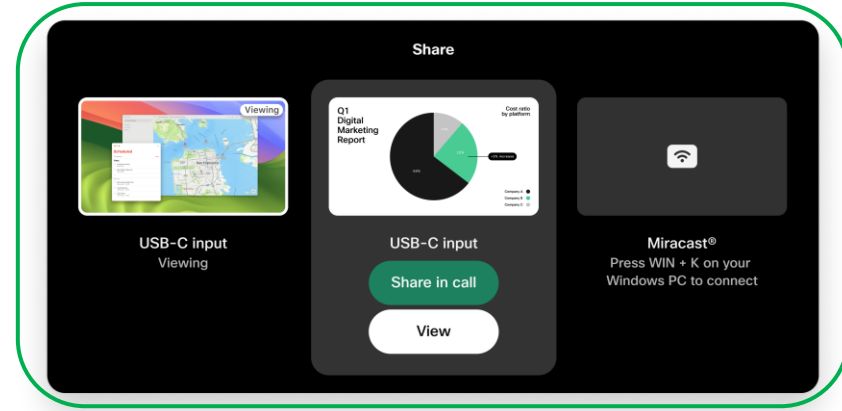
Content Sharing Cont...

New USB Capabilities

USB-C Content Preview

RoomOS devices now support content cameras that could be plugged into USB port.

- Any USB2.0 camera that supports mjpeg format should work
- Supported on both MTR on RoomOS
- Supported in or out of a meeting
- USB cameras are only supported for Content and not for video.
- Supports current portfolio of devices Room series(Bar, Bar Pro, Kit EQ/EQX, Kit Pro), Board series (Pro and Pro G2) and Desk Pro



About AES67 Support

AES67 is an open interoperability standard for Audio over IP (no control plane)

Dante is proprietary and requires certain chip from Audinate (but more robust)

- Dante equipment less than 5 years old most often supports AES67, may need to enable

Cisco Codecs support AES67 (Room Bar Pro, Board Pro G2, EQ(X), Room Kit Pro)

Popular 3rd party AES67 Shure MXA9XX series, Sennheiser TeamConnect series

- Pay attention to mute sync API support
- Understand Cisco licensing requirements

Cisco AES67 Licensing Requirements

- No longer required for any number of Cisco microphones. Only required for 3rd party mics connecting to Cisco codec via AES67

The Cisco Mic and Ceiling Mic Pro are proprietary and only work with Cisco codecs

The Bar Pro, Board Pro G2, EQ(X), and Room Kit Pro support up to 8 streams.

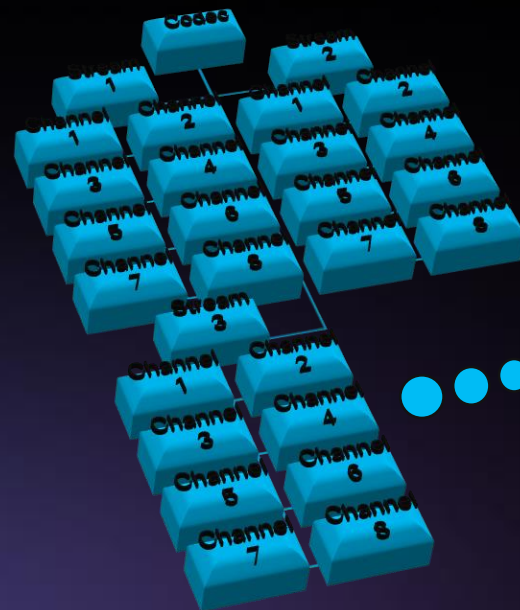
The Room Bar supports 1 Cisco Mic or Ceiling Mic Pro

- Each Stream can support up to 8 channels.

The Internal echo canceller in our codecs can support 8 channels total.

- When we use external echo cancellation we can technically differentiate between 64 different microphones or zones

AES67

The Dante logo features a stylized 'D' icon on the left, composed of a white semi-circle and a red horizontal bar. To the right of the icon, the word 'Dante' is written in a bold, sans-serif font, with a registered trademark symbol (®) to its upper right.

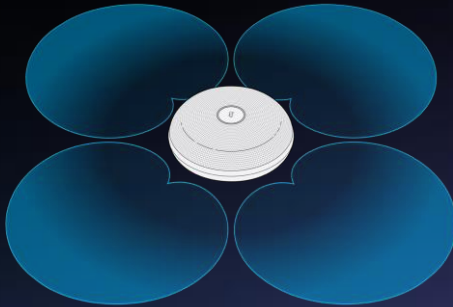
Cisco Table Microphone Pro



4 Directional microphones (1 stream, Independent, tunable Channels)

Up to 8 Mics on all endpoints (except Room Bar which can do 1)

Integrator License no longer required with Cisco Microphones



Capacitive touch button & status LED

Perforated steel shield

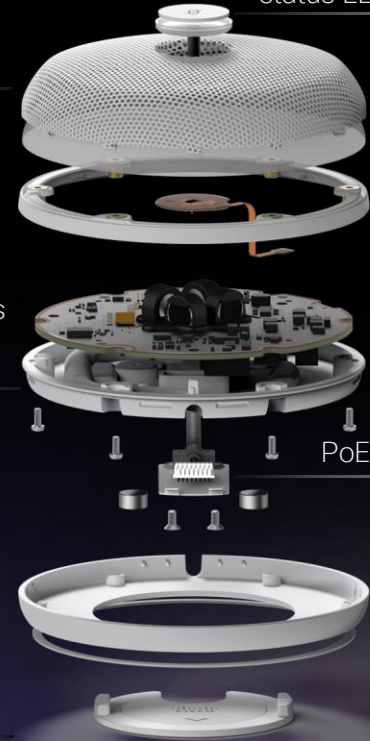
4 ECM microphones

4 MEMS microphones

8M nano processor

PoE connectivity

Magnetic docking





Ceiling Mic Pro

Basic Hardware

2 color options

- Arctic white
- Carbon black

Dimensions (shown)

3 mounting options

- Dropped Ceiling Mount
- Hard / On-Ceiling Mount
- Wire Suspended Mount

Plug and Play

- Link Local Network with codec
- Automatic Pairing to codec
- Automatic Tuning to multiple Ceiling Mics

PoE (8 watts)

- Be mindful of PoE density on codecs
- Recommend Cisco CBS350, Cisco CBS250, Cisco C1200

Audio over IP (Encrypted)

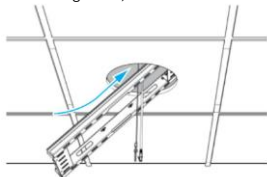
Integrator License no longer required with Cisco Microphones

Data Sheet / Installation Guide



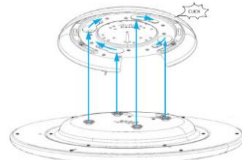
Dropped ceiling mount

Microphone fastened to the T-bars of a drop ceiling using a frame, mounting bowl, and interface disks.



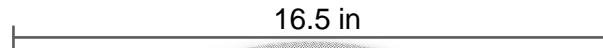
On-ceiling mount

Microphone fastened directly to the ceiling using a mounting bowl and interface disks.



Suspended wire mount kit

Microphone suspended from the ceiling on three adjustable wires



16.5 in



2 in

Weight: 5.6 lbs

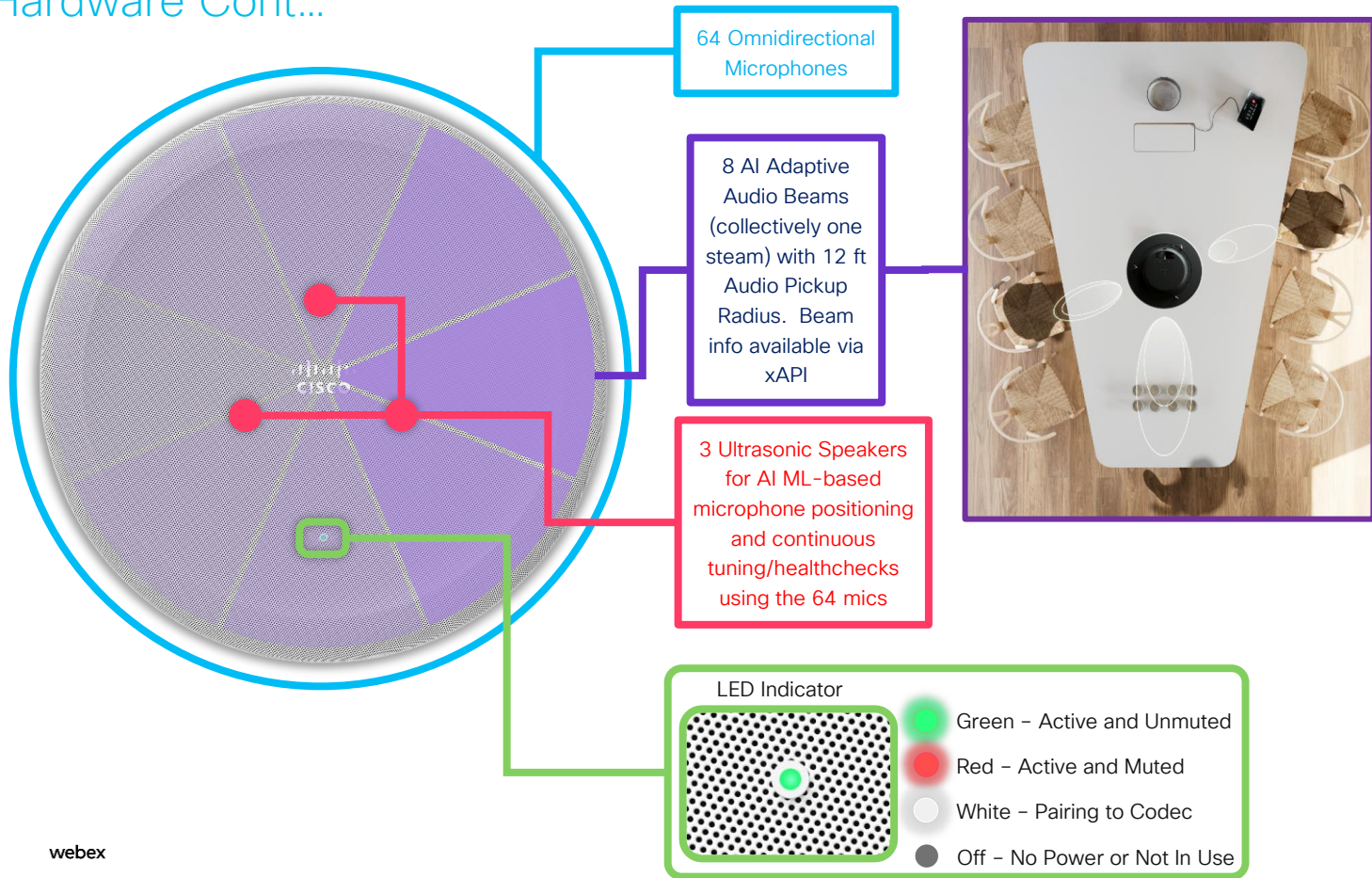
1 in

<https://www.cisco.com/c/en/us/products/collateral/collaboration-endpoints/telepresence-microphones/datasheet-c78-736073.html>

https://www.cisco.com/c/dam/en/us/td/docs/telepresence/endpoint/microphone/installation_guide/ceiling-microphone-installation-guide.pdf

Ceiling Mic Pro

Hardware Cont...



The Ceiling Mic Pro's AI **Adaptive beams** will mitigate excess noise by homing in on the speaking participant.

They'll continuously adapt and follow that speaking participant, capture new participants as they join the conversation and re-enforces our Camera **AI Director's Speakertracking capabilities**.

AI capabilities avoid noise using a built in DSP which **pre-processes noise and echo before reaching the codec**.

AI Camera Director in RoomOS and the Ceiling Mic Pro assist each other, enabling it to steer the Ceiling Mic Pro beams to a participant we can see speaking in a space.

Ceiling Mic Pro

Placement Guidelines

Distances

Optimal Coverage 12ft in every direction (Radius 12ft) from the microphone

- However, the size, layout and acoustics of the room determines the number of microphones needed for optimal coverage.

Mount 7-12 ft from floor

Space additional Microphones 10-16 ft apart

Single microphones are recommended to mount towards the front of the table. Introduce additional microphones for long tables ft)

The Ceiling Microphone Pro can extend the pickup range and improve speech pickup for participants in the back of the room when it's paired with video systems with internal microphones

Placement relevant to participants

Mixing with other Microphones

- Can mix with Cisco Table Mic Pros (but placement is key)
- Avoid Mixing with Analog / USB or other digital/IP Mics

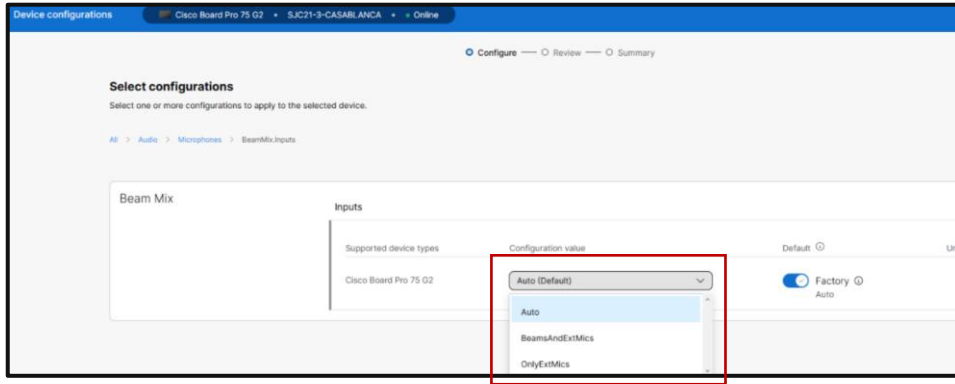
Number of Ceiling Microphone Pro's supported:

- Proprietary AoIP to Cisco (Cisco Codecs only)
- Max supported is 8 (codec must support)
- 8 supported on Roomkit EQ(X), Room Bar Pro, Room Board Pro G1/G2, Codec Pro / Room Panorama
- 1 supported on Room Bar

Audio Mixer

For Room Bar Pro and Board Pro G2

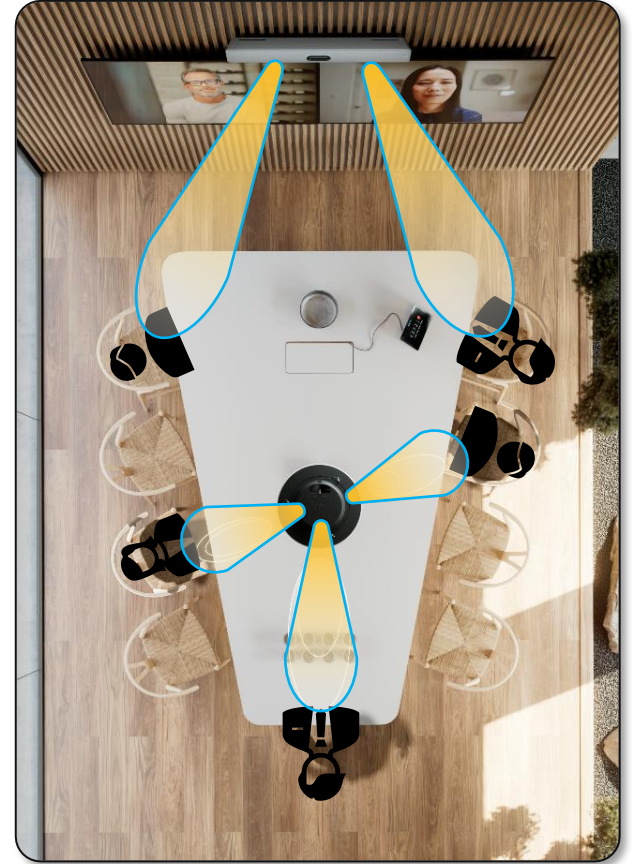
- Can I use the Bar/Board Pro's built in audio array with the Ceiling Mic Pro? **YES**
- Ceiling Mic Pro and the **Extended Microphone Voice Tracking** feature activated (next slide)
- **The AI ML Audio Mixer chooses the microphone based on camera intelligence on Optimizes fidelity**
- Audio Beam Mixer Settings:



Auto: Requires Ceiling Microphone Pro connected and the External Microphone VoiceTracking wizard has been run, both internal beams and the Ceiling Mic Pro will both be used. For other external microphones, the internal beams are disabled.

BeamsAndExtMics: The audio mixer uses internal beams and external microphones for voice pickup. Select this when you want to cover the area close to the video system with the internal beams and extend the microphone range using external microphones.

OnlyExtMics (New): Uses only external microphones for voice pickup and falls back to internal beams if no external microphones are connected



External Microphone Voice Tracking

Enhancing Camera Features

* Images subject to change

Room Bar, Room Bar Pro / Board Pro G2, and Quad Camera have microphones used specifically and only for camera features (speaker tracking)

This feature uses Cisco IP-based mics to enhance intelligent ML-based camera features

- Codec will use Cisco Microphone Pro and Ceiling Microphone pro to more accurately track speakers

Off by default. To enable, on the navigator...

1. Go to Settings, Microphone
2. Select "External microphone voice tracking"
3. Select Setup
4. Continue with the setup
5. Start Calibration and be silent
6. Look for the speech bubble, then talk. Move to different parts of the room and continue
7. Click Done when finished

1

2

3

4

5

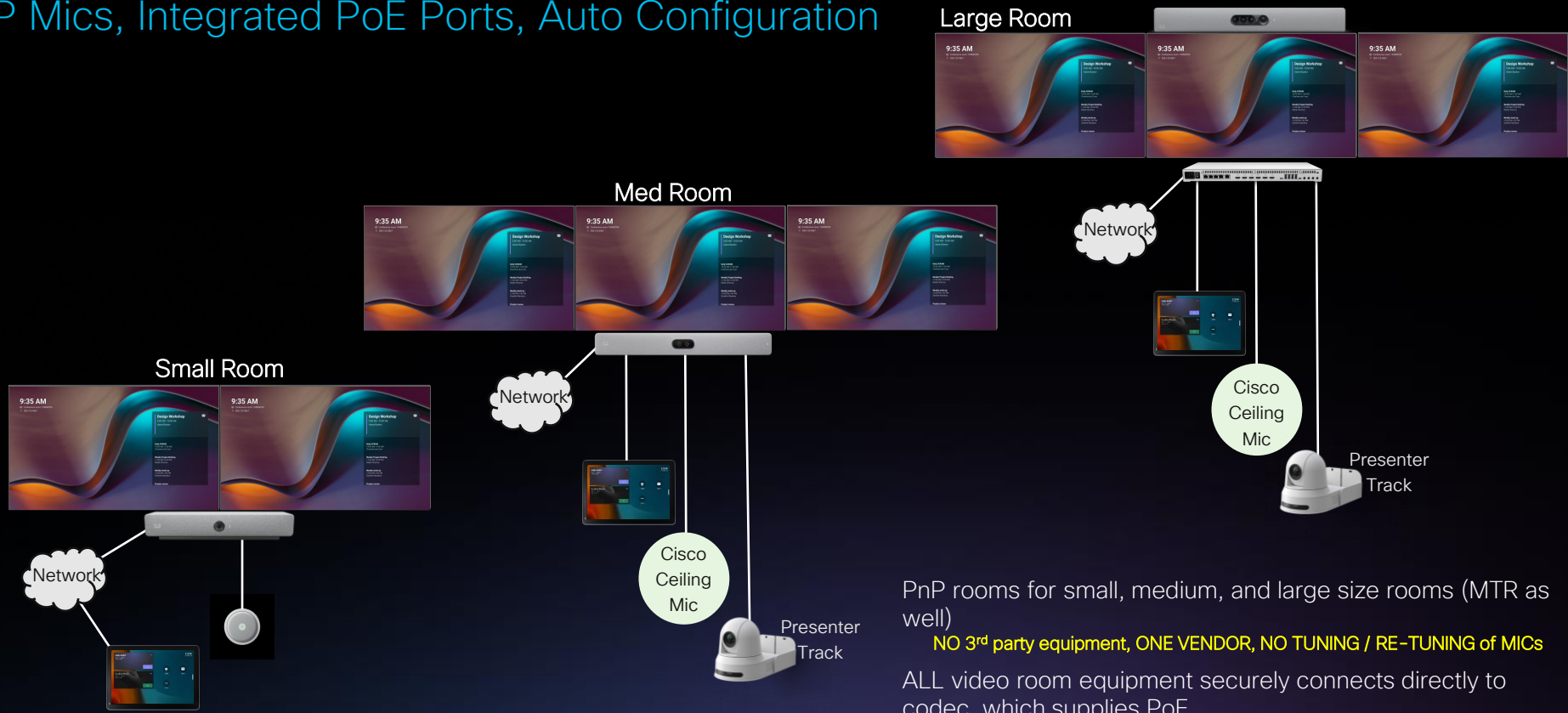
6...

7

Look for the Speech Bubble

Plug & Play Rooms

IP Mics, Integrated PoE Ports, Auto Configuration



PnP rooms for small, medium, and large size rooms (MTR as well)

NO 3rd party equipment, ONE VENDOR, NO TUNING / RE-TUNING of MICs

ALL video room equipment securely connects directly to codec, which supplies PoE

Only 1 connection to the network (cost, 802.1x, etc.) in most cases

AI/ML Based Features

Cinematic Meetings

“Cinematic Meetings”

Video Intelligence

Audio Intelligence

Speaker Track

Virtual Lens

Presenter Track

Frames

Cross View

Presenter & Audience

Meeting Zones

Noise Removal

Music Mode

Optimize for "X"

Table Mic Pro



Automatically follow speakers



Pick the best camera angle



Seamlessly switch scenes

Cinematic Meetings

Crossview

Multicamera configurations, directed by AI-powered RoomOS, to give the best view of any meeting at any moment

EQ(X) or Room Kit Pro required

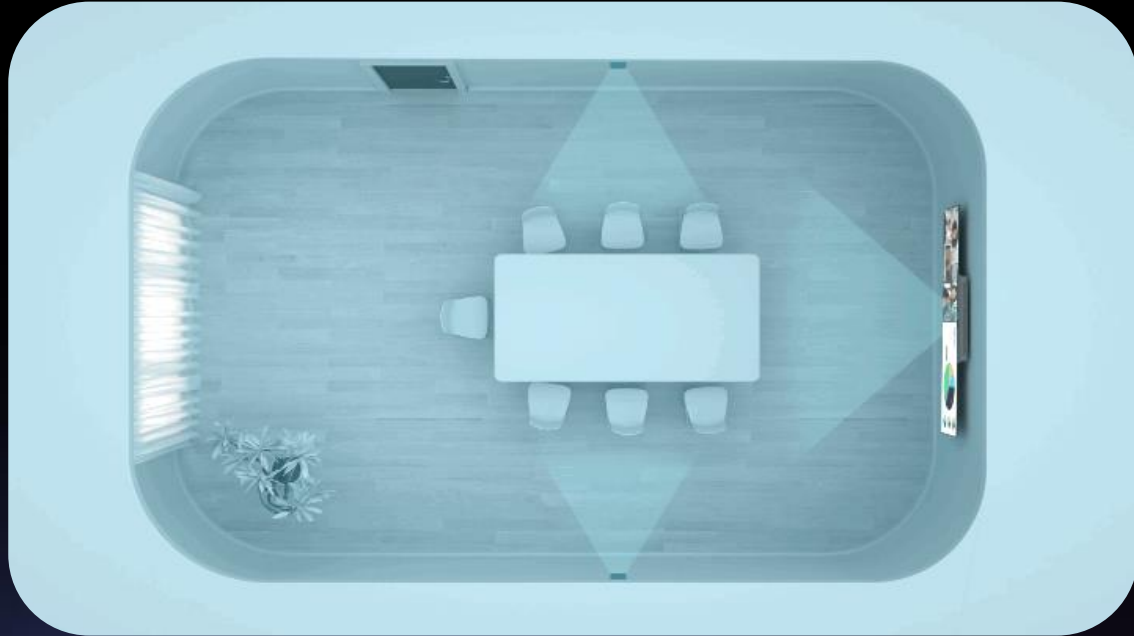
Add 2 PTZ4K cameras and 3+ Cisco Table Mic Pros or Ceiling Mic Pro(s)

Alternatively can use 2 quad cams (RoomOS only)

Wizard on Navigator for setup

Speaker Track from front and sides of the room

Supported on all RoomOS and MTR devices



Cinematic Meetings

Crossview (with Frames & Name Labels) Demo



LYS01-2-BoardRoom

Cinematic Meetings

Speaker and Group



Webex Meetings Multistream (Composite with MTR)

Sends adjusted Group view along with Active Speaker

Ensure remote participants get the best overview of the room, and the active speaker!

Room Bar Pro
Board Pro G2
Codec Pro w/Quad Cam
Room 70D G2
Codec EQ
EQX



Group
The camera will adjust to show everyone.



Frames
The camera will zoom and show people individually or in smaller groups.



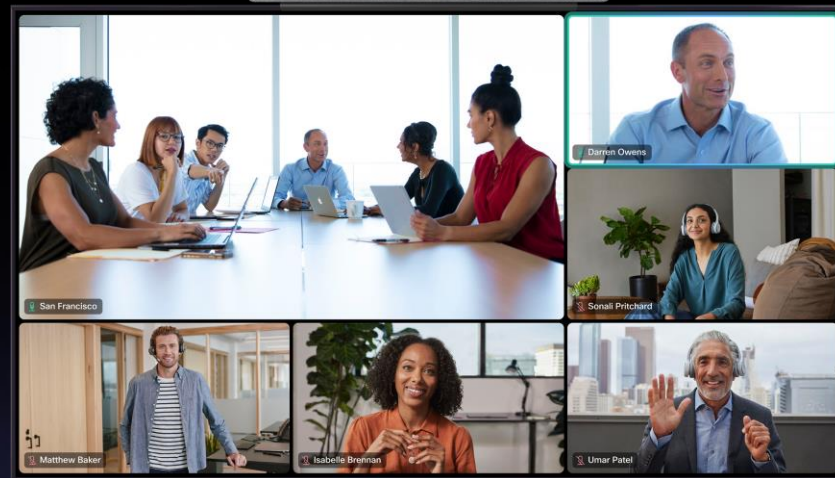
Speaker
The camera will follow the person speaking.



Speaker & Group
The camera will show the view of the room and the most active person in the room at the same time.



Manual
Manually adjust and save the camera views you need.



Cinematic Meetings

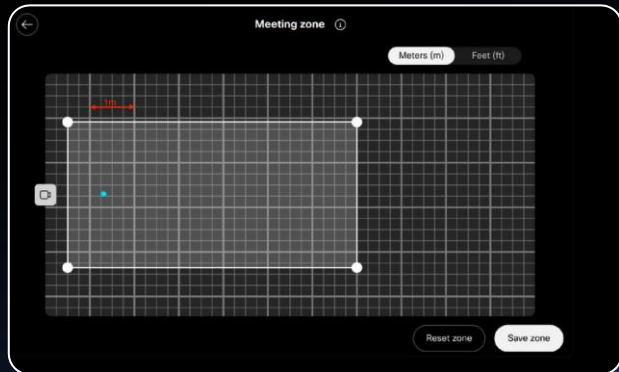
Meeting Zones

Define codec's sensory range/area using Navigator wizard

Create Distraction-free meeting spaces
SpeakerTracking only in the defined meeting zone

...open huddle spaces, glass walled rooms

Supported on all RoomOS and MTR devices



Cinematic Meetings

Meeting Zones (with Frames and Name Labels) Demo



Cinematic Meetings

Extended Speaker Track

Enables High-quality close-ups and people framing in large rooms

Overcomes current limitations of Quad Camera in large rooms

Simply add PTZ4K next to Quad Camera on an EQ-based endpoint (Quad Camera not supported on Room Kit Pro)

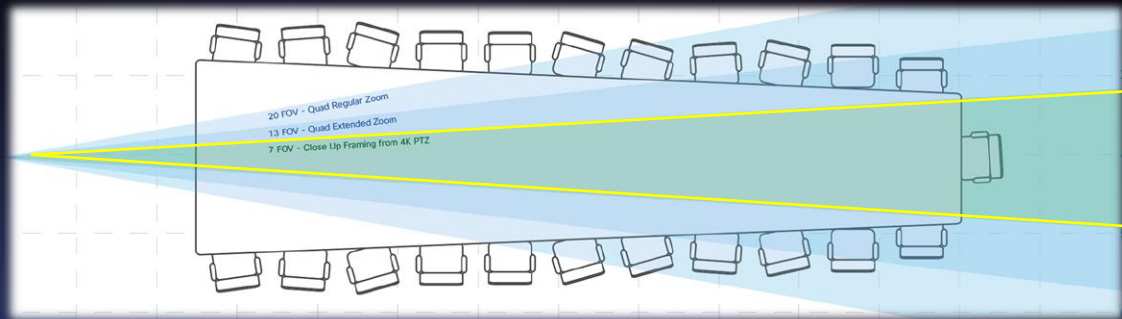
Requires 3+ Cisco Table Mic Pros or Ceiling Mic Pro(Wizard Setup)

4K PTZ will use up to 11x optical zoom (7°) to achieve expected reach of 60ft.

Define codec's extended range area using Navigator wizard

Can be combined with CrossView with Room Kit Pro

Supported on all RoomOS and MTR devices



Cinematic Meetings

Crossview (with Frames & Name Labels) Demo



Cinematic Meetings

Campfire

Enables High-quality multi-way SpeakerTrack room system.

Daisy-chaining multiple codecs together (one master codec, rest slaves). 4 shown in picture

Intended for, but not limited to, a campfire style room. Technically can be done with less or more codecs

Is a Blueprint! Macro-based



Far-end view

Cinematic Meetings

Presenter and Audience

The Presenter and Audience room mode is next generation Briefing room and Classroom mode

RoomOS EQ-based system with PTZ camera

Remote and an in-room speaker can seamlessly take the stage together for true-to-life hybrid presentation

Options for SpeakerTracking between presenter and audience, as well as screen layout options available to presenter on the Navigator

Optionally can send composite of presenter and audience into meeting

Microsoft Teams Rooms will support the old Classroom Mode in future



Revolutionizing video with Super Resolution

Generative AI video will rebuild packets in poor bandwidth conditions



Low resolution video captured at 270p



Super Resolution rescales 270p back into 1080p

Catch Me Up

On Cisco Devices using AI Assistant

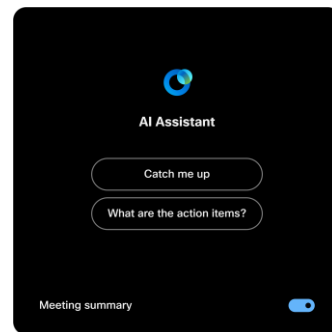
Ever join a meeting late? Get distracted for a minute?
Multi-tasking?

Use the AI Assistant in Webex meetings on your device to quickly “Catch me up” or ask, “What are the action items?”

Once the AI Assistant meeting summary is on, anyone in the meeting can send prompts.

Post meeting, a full AI generated meeting summary with action items will be available in Webex or via email.

See this help article for more info on turning on the AI Assistant meeting summary: <https://help.webex.com/en-us/article/e4roeg/Cisco-AI-Assistant-in-Board,-Desk,-and-Room-Series-on-devices>).



Virtual Lens

Cisco Room Bar Pro and Board Pro G2

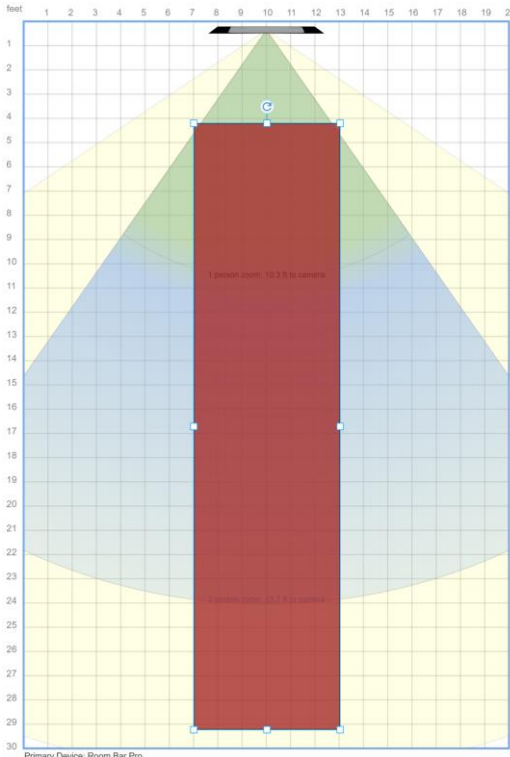


- Extend the camera reach with an AI virtual lens
- Improve active speaker zoom at far end for speaker tracking
 - Increases 1 person zoom from 10.3 ft to 21.3 ft
 - Increases 2 person zoom from 23.7 ft to 26.2 ft

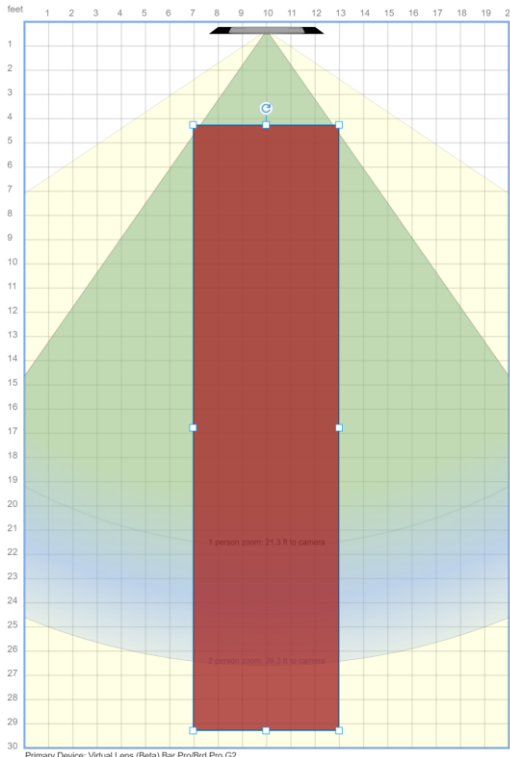
Great for long tables

AI Camera Director will automatically use the virtual lens in Speaker mode *if* that enables a higher quality capture

Available on Room Bar Pro and Board Pro G2



Room Bar Pro



Room Bar Pro with Virtual Lens

AI based Operations

Smart Diagnostics and Workspace Ranking

Smart Diagnostics collects data from the org on issue timelines, issue-reoccurrence and past device events in an org.

For customers that are enabling our Webex LLM services, we provide a more capable mechanism to analyze and summarize large set of data, ending in a suggestion on how to improve your deployment of devices.

Smart Diagnostics:

- Provides value both with and without LLM AI involved
- Pulls info information from devices in the org, and offer **both an algorithmic and LLM based analysis** of the problem
- Suggest solutions based on public documentation and known solutions
- **Deploy action for fix**
- Smart Diagnostics does **not require an additional license**.
- Smart Diagnostics LLM is toggled on per org. Default is off.

Workspace Ranking automatically triage workspaces to focus on the first, most pressing issue

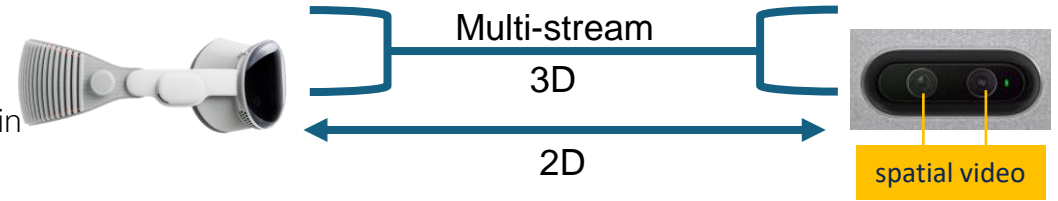
The screenshot shows the Webex Control Hub interface. A modal window titled 'Issue analysis' is open, displaying details for a 'Cisco Room Kit EQX'. The issue is identified as a 'Call protocol issue' where the device is unable to join meetings because 'WebEngine Mode' is disabled. The analysis provides a 'Possible reasons and suggested actions' section with a button to 'Enable WebEngine mode for this device' and a 'Bulk Operations for Multiple Devices' section with a button to 'Enable WebEngine mode for all affected devices'.

The screenshot shows the 'Workspaces' section in the Webex Control Hub. The 'Issues' tab is selected, showing a summary of 32 workspaces with issues. A table lists several workspaces with their respective issues and status.

Workspace	Issues	Status
OSL Cloud Board Room	Touch panel offline, Display offline	Free
NYC Meeting Room	Macro error, Ultrasound issue	No booking info
SJC Auditorium	System issue, Network issue	No booking info
NYC Quiet Room	Call protocol issues, Type not set	Free
ALT Quiet Room 48	Companion mode issue, Software issue	No booking info

3D Spatial Video Conferencing

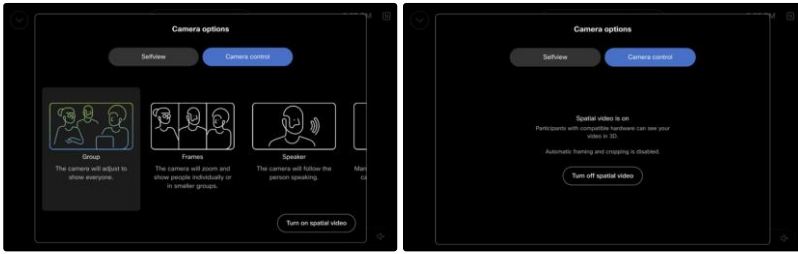
Cisco Room Bar Pro



Sending stereoscopic video using the Bar Pro's two camera lenses, which allows users to see participants in 3D video in the Webex App on Apple Vision Pro

Enabled by multi-stream capabilities in Webex. (Based on building blocks developed for hologram)

Requires a one-time calibration of the cameras on sending device



Non-headset participants receive 2D video of the same view



Room Design

Workspace Designer

The Workspace Designer tool takes you through the journey of designing & enabling meeting rooms for video, guiding you as you make choices, and giving you an understanding of the experiences provided

The tool is built to guide the user through base constraints (Small, Medium, Large, XL) and then adapt to match their specifications

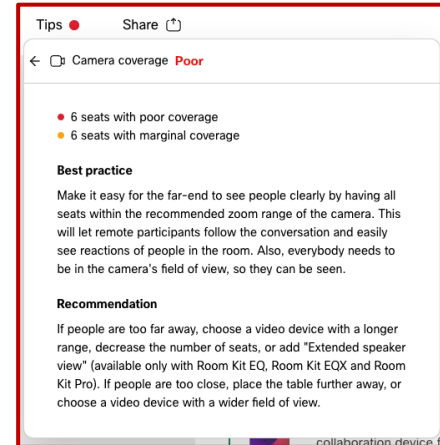
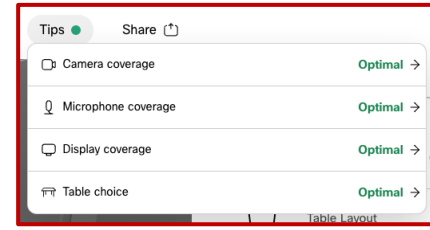
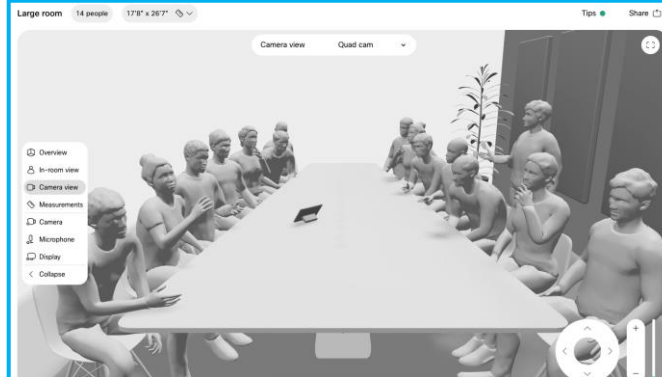
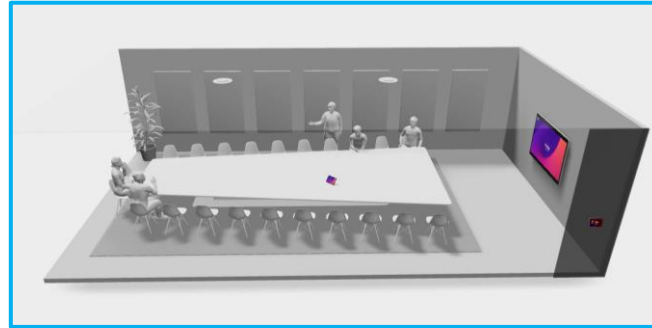
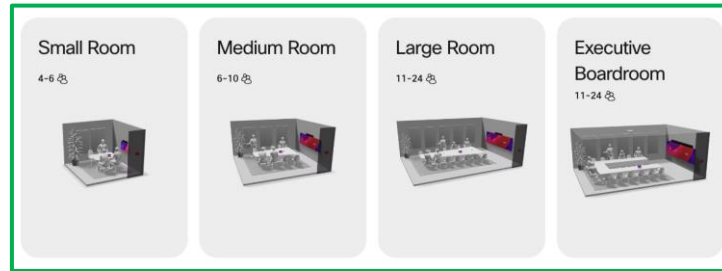
Once those specifications are added you can use the 3D Render to **explore** the solution. This includes things such as camera coverage FoVs, remote side perspectives and microphone coverage.

Designer tips are provided

Blueprints

Workspace Designer has already been updated with the Ceiling Microphone Pro

<https://www.webex.com/us/en/workspaces/workspace-designer.html>



Video Room Calculator

The Video Room Calculator is a more detailed design tool when compared to the Workspace Designer

<https://collabexperience.com/>

https://github.com/vtjoeh/video_room_calc

Input exact measurements (more for a design engineer)

Saveable and Shareable

Basic templates available

Room Kit EQX

Larger Boardroom (Extended Speaker View)

Classroom (Requires a Macro)

Cross-view (Multi Camera Setup)

Campfire (Campfire Blueprint)

Not a Cisco Systems tool (not supported)

MS Teams and Zoom Integation

Microsoft Integration

Freedom of Choice

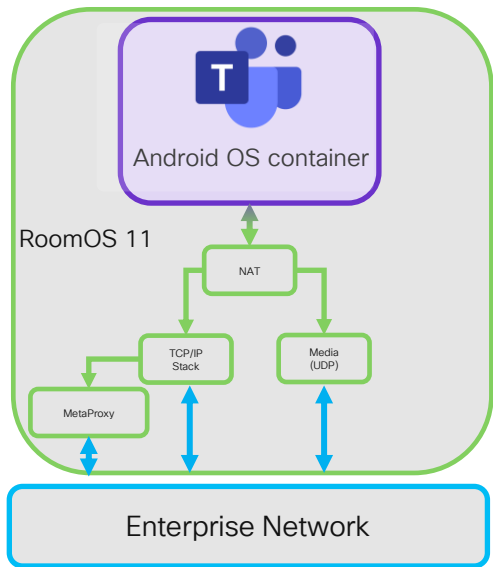


MS Integration with native RoomOS

- CVI / VIMT
- Retain full endpoint programmability and control over HW
- **Full Featured Video Centric Experience**

Microsoft Teams Room (MTR) Mode

- MTR-A
- Containerized
- Allows for some unique flexibility unique to Cisco (see future slides)
- **Full Featured MS Teams Experience**



Microsoft Integration

CVI / VIMT Update

Cross Tenant Join

Previously, could **not** join meetings from outside tenants unless they have a CVI service (and meeting contained a Video ID). Limited experience of WebRTC Direct Guest Join had to be used

Can now join MS Teams meeting from outside tenants using your own CVI/VIMT ports. This is called **Cross Tenant Join**

Supports both **OBTP** or **ad-hoc join**

- OBTP utilized by forwarding the invite to your conference room resource
- This is the easiest method...

To invoke an ad hoc Cross Tenant Join, you will use the Meeting ID

- Note, that you can join your own CVI/VIMT meetings using meeting ID (and not your video ID). If you do, there will be no lobby bypass

Ad hoc join GUI update

- Default to Video ID (instead of meeting ID). Reduces confusion

ThousandEyes support for VIMT Calls

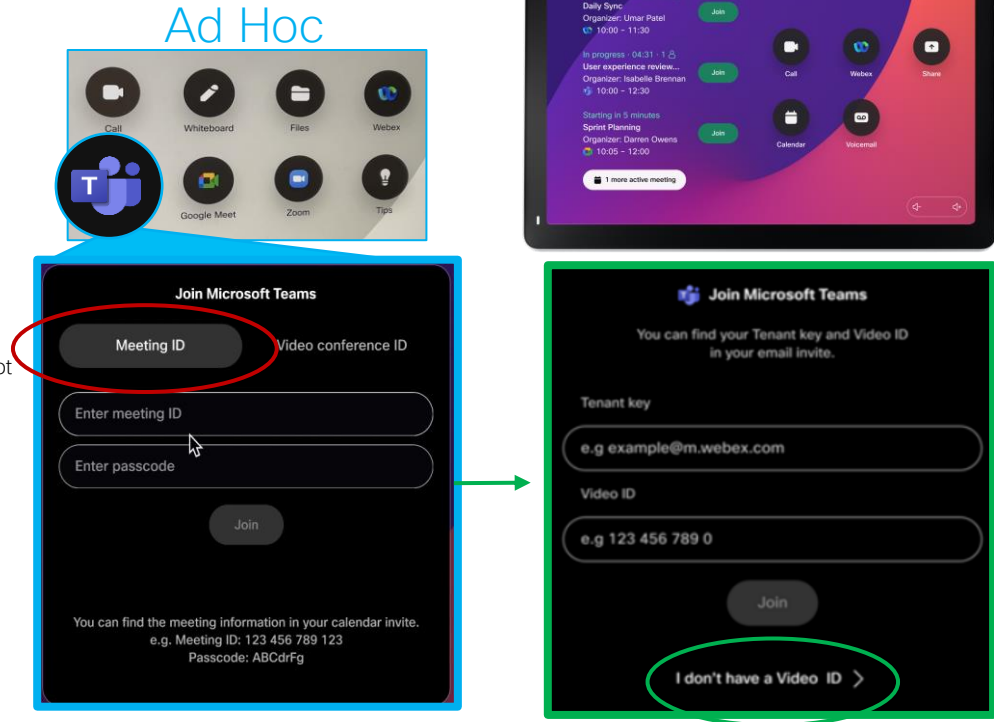
MS Teams IntelliFrame receive support

Endpoints joined via Cisco VIMT can receive the IntelliFrame experience coming from MTR-W endpoints (with a Pro license) in the MS Teams meeting

Participants in a call will see other video participants close-up

See the following link for more information on IntelliFrame:

<https://learn.microsoft.com/en-us/microsoftteams/devices/cloud-intelliframe>



Why Cisco MS Teams Rooms

Best in Industry, Unique in Industry

Native Webex Join

Ad Hoc Webex

Ad Hoc Zoom join (native video)

Advanced Noise Removal

Cinematic Experiences

Cameral Intelligence (Frames, People Focus, speaker/group (composite), virtual lens)

Audio Intelligence (Speaker Trace with external mic voice tracking, Audio Mixer (Bar Pro), auto tuning ceiling mics)

Control Hub admin, support, and analytics (templates, remote monitoring, alerts, analytics)

ThousandEyes support

Plug and Play for your common small, medium, large rooms

Personal Microsoft Teams Room device with Desk Pro

AES67 integrations

3rd party integration

Macro, UI extensions

APIs - Endpoint and Cloud (Via Control Hub)

Most comprehensive sharing options (wired and wireless) including **Apple Air Play**

Digital Signage

21:9 aspect ratio support (only in industry for MTR-A)

Personal MTR Device

Cisco Desk Pro

In June Microsoft announced the END of the MS Teams Display

Utilizing our Containerized MTR endpoint on top of RoomOS coupled with O365 **License Stacking** (E1-5 on top of MTR Std or Pro) to enable personal MTR device

https://www.youtube.com/watch?v=MgMULWb_XsE

Add personal security (pin lock, etc)

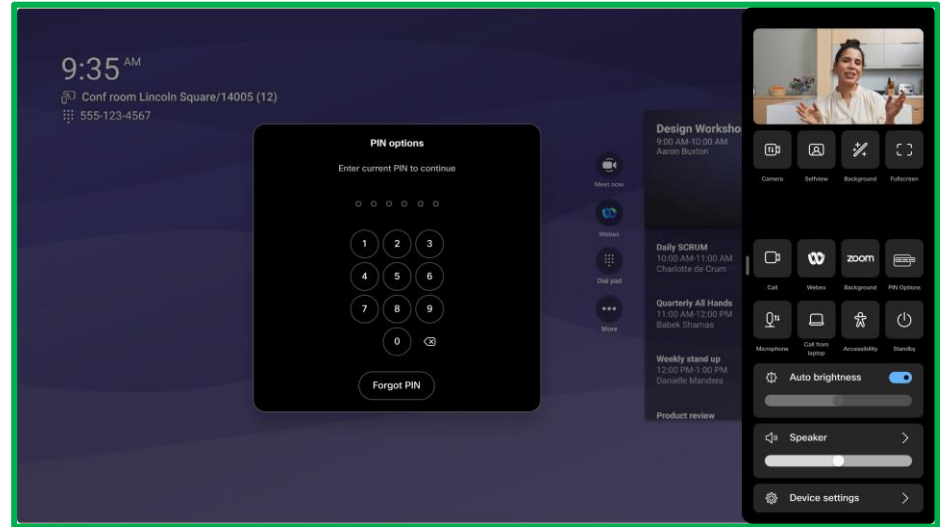
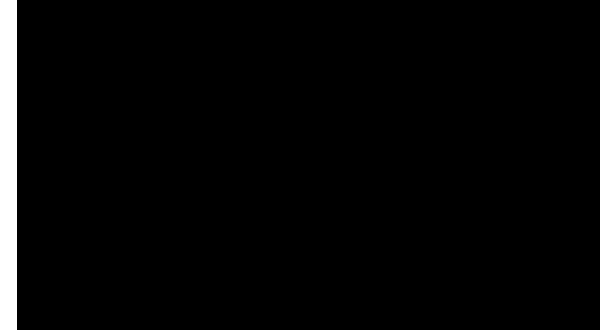
This enhancement supports PIN lock in MTR mode when the device is used as a personal device.

Utilizes underlying RoomOS

This feature requires the MTR device to be managed in Control Hub.

This feature works the same way as the PIN lock for RoomOS desk or board device used in personal mode. PIN could be managed by a user through user hub or by an admin through control hub (admin managed).

For details: <https://help.webex.com/en-us/article/g7wj5w/Secure-your-Desk-Device-with-a-PIN-Lock>



Outside Booking with MTR

MS Teams Panel OR RoomOS

Cisco Navigator now supports Microsoft teams panel for room booking (can be stand-alone)

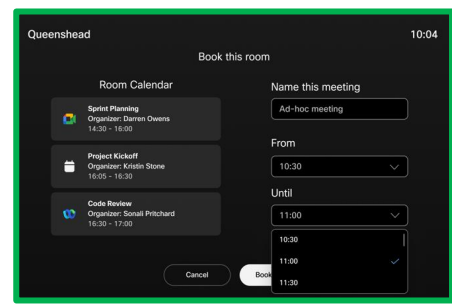
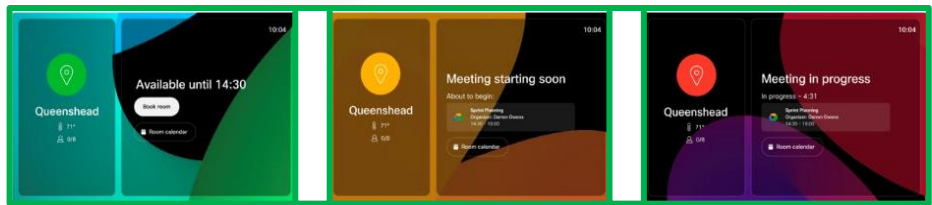
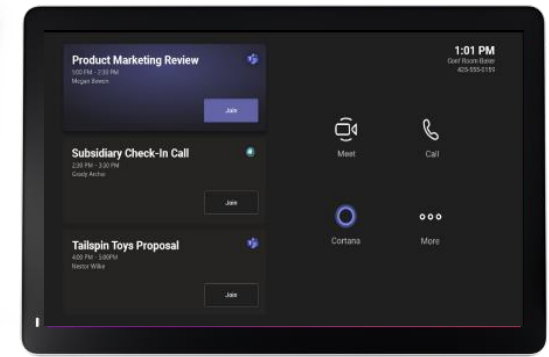
Simple onboarding through first time wizard flow

Device is manageable in control hub as well as Teams admin center.

In the control hub, device is managed as a standalone navigator configured in the same workspace as the MTR device or in its own workspace for rooms without any devices.

APIs and functionality provided in the Standalone mode works identically when used with Teams panel in standalone mode.

Can continue to run outside of room booking Navigator in RoomOS mode



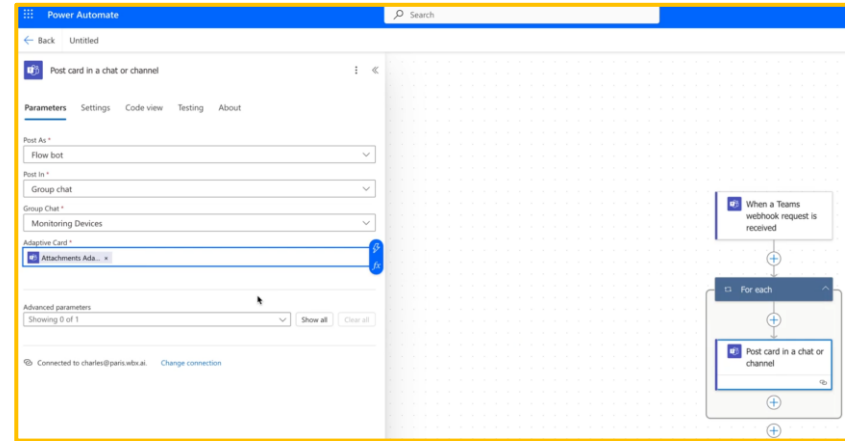
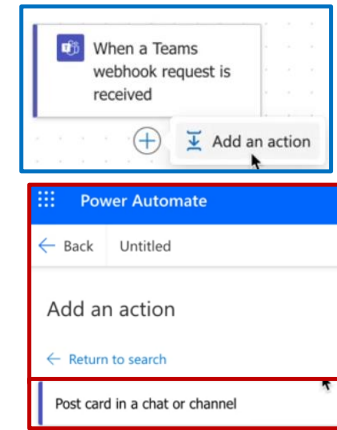
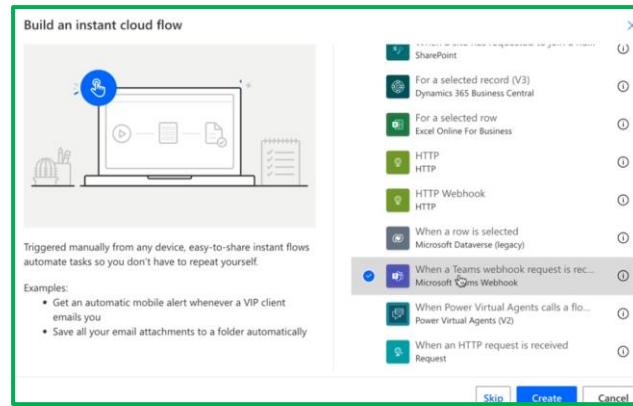
Microsoft Integration

Send MS Teams Message Example

Using MS Power automate and Cisco RoomOS macros to send notifications from endpoint to MS Teams group chat (ex. If issue on endpoint, support button, etc.)

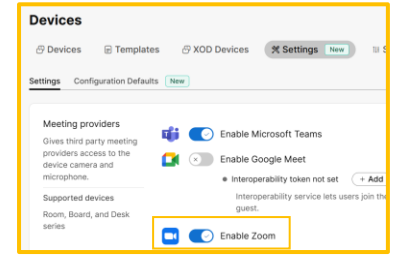
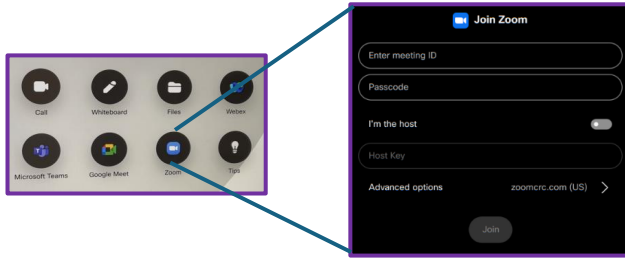
How? (<https://app.vidcast.io/share/9bbab792-513f-4214-aba5-a9b35fae0433>)

- Create Svc. Account user with E1 and **Microsoft Power Automate Free** license
- Create **instant cloud flow** on **Power Automate** triggerable **When a Teams Webhook is Received** (make.powerautomate.com logging in with the previously created user)
- Make sure **Anyone** can trigger the flow
- Add action on your trigger node to **Post card in a chat or channel**
- And In this node, **Post in a Group Chat** and choose the group chat you want to **post** the message (groups for that user will show up)
- For adaptive card, click on the **lightening** button and **choose Attachments Adaptive Card**. This variable is the card your endpoint macro will send to the webhook.
- **Save and copy the webhook URL**
- Download and deploy the following macro to your video endpoint (https://github.com/QuentinRasidy/cisco_macros/blob/main/send_to_ams_adaptive_card.js)
- Design a simple adaptive card (<https://adaptivecards.io/designer/>) and copy the JSON body of the card
- Paste both the webhook URL and the JSON body of your card into the macro and put whatever info you want in the body.



Zoom Integration

Overview and Update



Join Zoom meetings via SIP with host controls

Enabled Via Control Hub (puts Zoom join button on Navigator)

Source Org can either have CRC licenses (paid) or Video Interop for Meetings (free) enabled

Comparison:

https://support.zoom.com/hc/en/article?id=zm_kb&sy_sparm_article=KB0058000

Can join other non-CRC enabled org meetings with your own CRC licenses

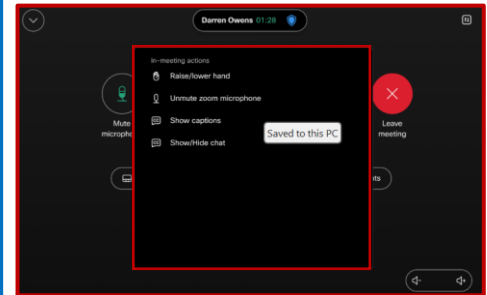
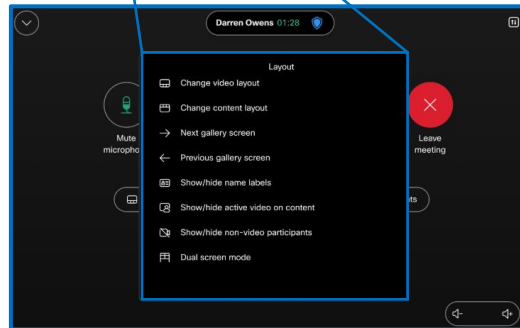
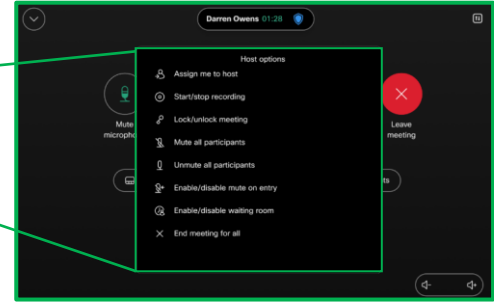
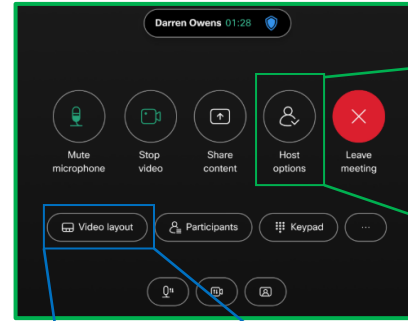
Cisco Integration Highlights:

Full set of host controls...

Full set of layout options...

In meeting actions...

...and (new!), lobby management (not shown)



Misc

Cisco Smart Workspaces

Cisco Spaces Control Hub Integration

- Cisco Spaces control hub integration provides rich map workspace locate and reservation app to your employees.
- Find the right room with the right telemetry and book it!
- Accessible from browser engines (PC, touch screens) or mobile app
- Works with Cisco CH registered devices (9800 phones coming soon)
- Wayfinding using mobile devices and BLE capable Meraki or Catalyst APs
- CH Integration
 - Upload CAD to Cisco Spaces
 - Add Cisco Spaces instance to CH Org
 - Synchronize Cisco Devices/Workspaces with Cisco Spaces



Cisco Spaces

Detailed Usage Analytics (new!)

How exactly is our space utilized?

- Over, Under
- As intended
- How do we identify areas where need to adjust

Cisco Spaces is taking occupancy information at the building, floor, and room level

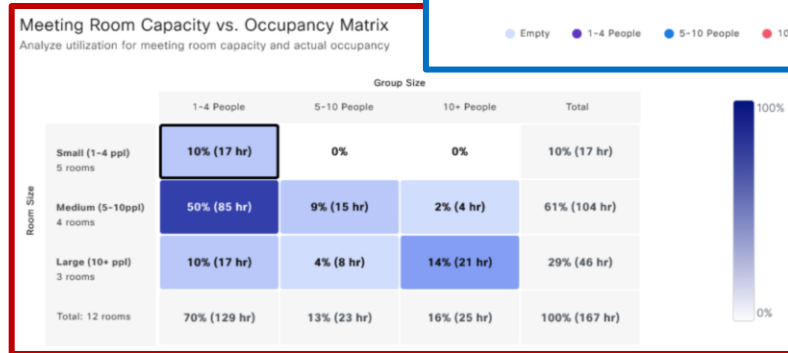
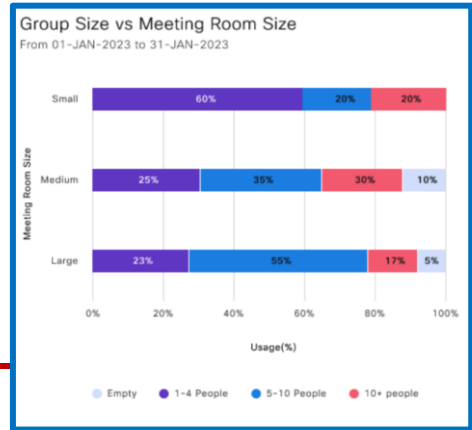
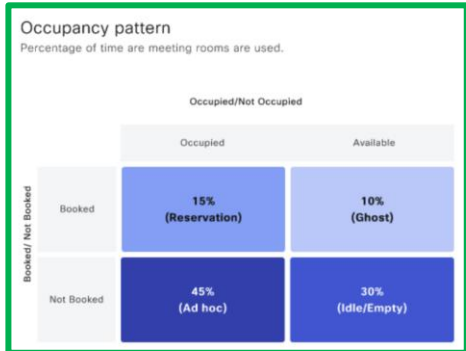
- Ad-hoc, scheduled, Reserved, Ghosted

The Occupancy data based off of WiFi connectivity in conjunction with room system facial detection and ultrasonic sensors.

- Tracking real time occupancy and compare to booking data from CH/Outlook

Example

- Do we have a lot of Ghosted rooms? **Occupancy Patterns**
- Are too many people packing into small rooms, why? **Group vs Room Size**
- Are large rooms being used with 1-4 people? **Room Capacity vs Actual Occupancy**
- Do traffic patterns on the floor have anything to do with this? **Heat Map**
 Environmental issues (too hot, too cold)
 WiFi connectivity not great
 Access to facilities



Remote Access

Feature Overview

Visually access devices remotely

Can View attached navigators and screens

Access via Control Hub

Access directly thru the device web page

Only works when **not** in a call (for security reasons)

Supports RoomOS or MTR modes

Not supported yet on personal mode devices

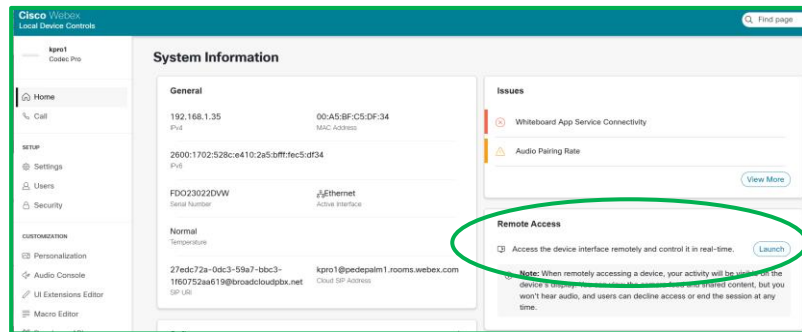
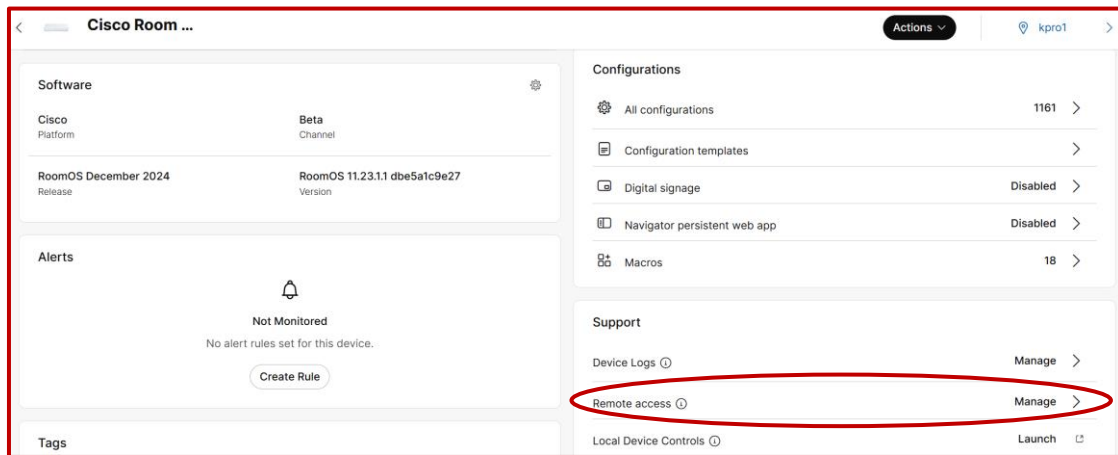
Some use cases

- Supporting users
- Simplifying MTR onboarding process: getting the code from the last step in an MTR deployment
- Drawing up meeting zones and configuring the mic
- Testing macros

What about the old Remote Monitoring Key

- Works in a call, but limited
- Comparison

	License Req?	Method	Out of Call?	In Call?	Control?	Network?
Remote Access	No	Live Views	Yes	No	Yes	Local & Remote
Remote Monitoring	Yes, per device.	Screenshots	Yes	Yes	No	Local Only



Remote Access

Viewing and Controlling

Enable under Devices section globally (can be limited individually)

Access thru control hub, go into the device, go to Support, then click on Manage under remote access. Can also access via home page of devices web interface

- Premise and Webex Edge for Devices must use local device web interface

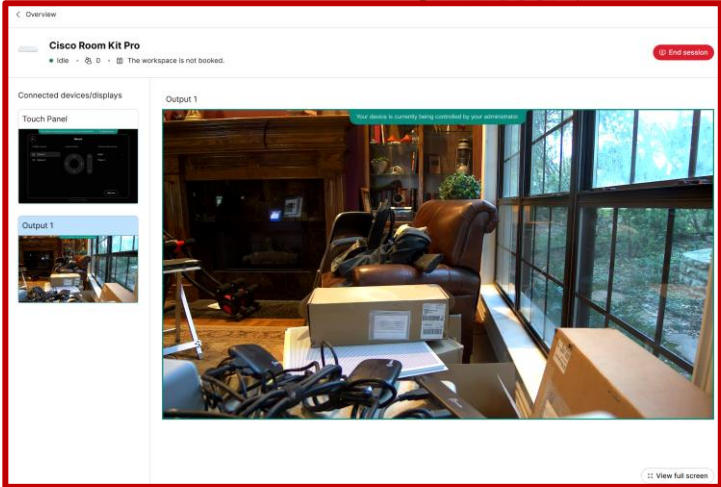
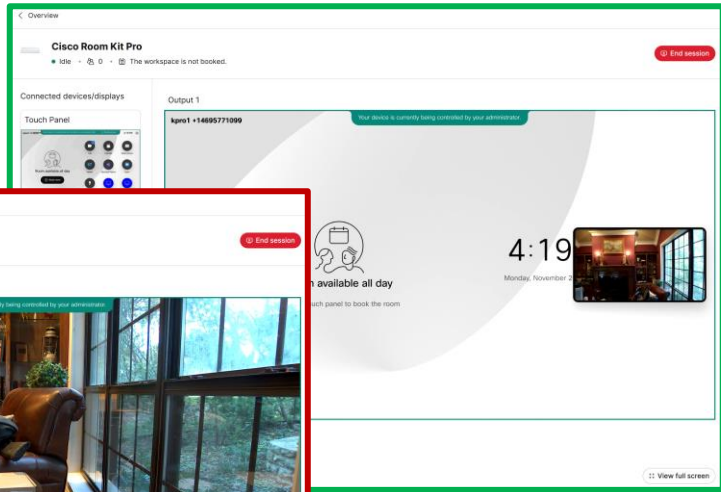
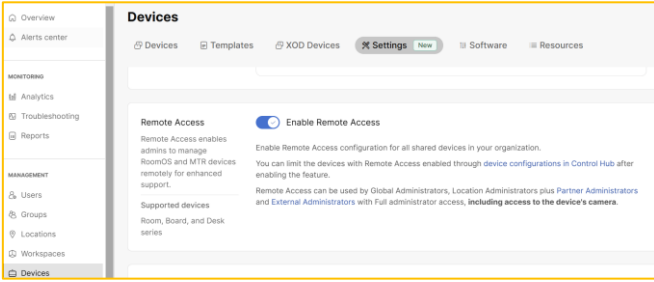
When an admin starts a remote access session:

- Visual notification on screen and navigator, and a 20 second timer is started
- Room user can decline support or accept it
- if 20 second timer expires, remote access is granted

When remote access session is started, click on the component (screen, inside nav, outside nav) you want to view/control.

- Mouse clicks to control
- Can access all 3 screens

To view the camera view(s), control the nav, select camera (if applicable) and use self view (full screen mode if needed)

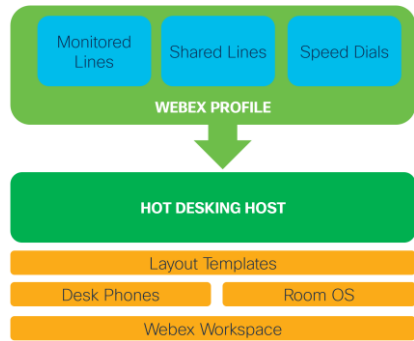


Hot Desking

Overview and Update

“Extension Mobility on Steroids”

Your full profile follows you
 Meetings, PSTN number, Contacts, History, Voicemail, etc.
 Improved experience over Hoteling future, getting even better



Comprehensive portfolio support
 MPP and OS11 support
 Desk, Board, Room, 88xx
 Lower end phone models in Beta currently

Dynamic login to **shared** Workspace devices
 QR Code (8800's / Desks), or USB-C (Cisco Desks)
 Reservation up to 24 hours
 New! VM Pin login coming soon

1.



USB-C to Desk Series

2.

X-Launches Either **Mobile Browser** or **Webex App** which starts the sign-in process to device via the cloud



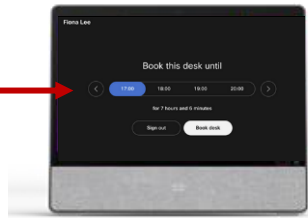
8800



Cisco Desk Mini

3.

Confirm timing of your booking



Cisco Desk

4.

Phone restarts as user's device



Cisco Desk Pro

ThousandEyes

Monitoring Meetings and Calling

Monitor traffic details

- Network Path, or possible paths
- Delay, Jitter, loss monitoring
- Alerts
- API integrations
- Session Templates provided



Comprehensive monitoring architecture

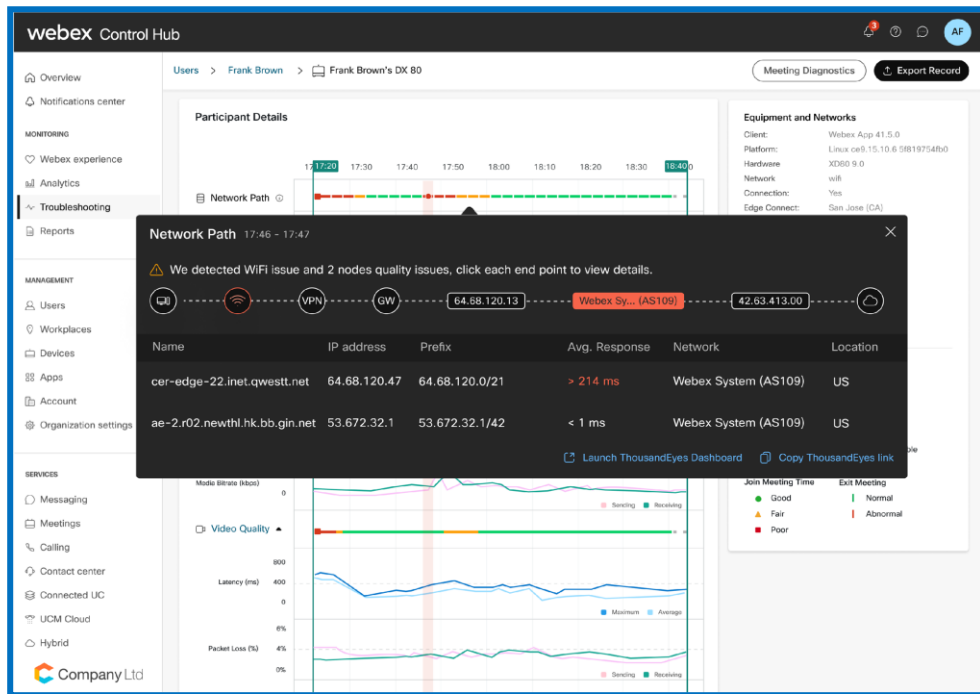
- Agent Options
 - Enterprise Agent (flexible deployment, scalable, UDP, page load tests)
 - Endpoint Agent (Windows, Mac, Browsers)
 - Cloud Agent for general use (<https://www.thousandeyes.com/product/cloud-agents>)
- Scheduled tests – test for initial connectivity to service (Webex Meeting Zone)
- Dynamic tests – detects media servers to run tests on
- Customizable Alerts (tied to email, webhooks, pre-built integrations)

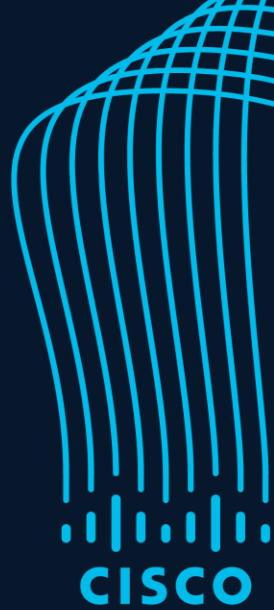
Direct Control Hub integration

- Network Path placed in CH troubleshooting section
 - Webex Meetings (Endpoint Agents). Live data
 - Devices – embedded Endpoint Agent on RoomOS. Live data
 - Calling – embedded Endpoint Agent 9961/9971 phones. Inserted after call

Monitoring other meeting platforms

- MS Teams and Zoom Support
 - Enterprise Agents, Endpoints Agents, Internet Insights
 - Templates – scheduled and synthetic tests





Thank You!!!