

The background features a vibrant, abstract design with a color gradient from dark blue on the left to bright yellow and white on the right. The design consists of overlapping, wavy horizontal bands and a radial pattern of lines emanating from a bright white point on the right side, creating a sense of motion and energy.

CISCO *Live!*

Let's go



The bridge to possible

Webex Video Interoperability with Microsoft Teams

Davide Preti, Technical Marketing Engineering Technical Leader

Safe harbor statement

This presentation contains “forward-looking” statements that involve risks, uncertainties and assumptions. If the risks or uncertainties ever materialize or the assumptions prove incorrect, our results may differ materially from those expressed or implied by such forward-looking statements. All statements other than statements of historical fact could be deemed forward-looking, including, but not limited to, any projections of financial information; any statements about historical results that may suggest trends for our business; any statements of the plans, strategies, and objectives of management for future operations; any statements of expectation or belief regarding future events, technology developments, or enforceability of our intellectual property rights; and any statements of assumptions underlying any of the foregoing.

These statements are based on estimates and information available to us at the time of this presentation and are not guarantees of future performance. Actual results could differ materially from our current expectations as a results of many factors, including but not limited to: the unpredictable nature of our rapidly evolving market and quarterly fluctuations in our business; the effects of competition; and any adverse changes in our indirect channel relationships. These and other risks and uncertainties associated with our business are described in the company’s annual report on Form 10-K. The forward-looking statements in this presentation are made as of the date of the initial publication of this presentation, and we disclaim any obligation to update these statements at any time in the future.

Abstract

This intermediate-level session provides attendees with a detailed understanding of how the Cisco Collaboration solution can interoperate with Microsoft Teams, with a focus on devices and meetings.

We will cover high-level architectures, supported capabilities and an overview of the End User Experience for: Cisco video devices and Cisco RoomOS experience:

- Interoperability using VIMT (CVI) Gateway
- Interoperability using WebRTC (Direct Guest Join)

Cisco video devices and the Microsoft Teams experience:

- Microsoft Teams Rooms/Displays/Panels

For those interested in deploying Cisco Video Devices for Microsoft Teams, with a Live demo, check out BRKCOL-2185

For those interested in Calling interop with Microsoft Teams, check out BRKCOL-2067

Agenda

- ❑ Introduction
- ❑ Cisco video devices and Cisco RoomOS experience:
 - Interoperability using VIMT (CVI) Gateway
 - Interoperability using WebRTC (Direct Guest Join)
- ❑ Cisco video devices and the Microsoft Teams experience:
 - Microsoft Teams Rooms
 - Microsoft Teams Displays
 - Microsoft Teams Panels

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❑ Cisco video devices and Cisco RoomOS experience:

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❑ Cisco video devices and the Microsoft Teams experience:

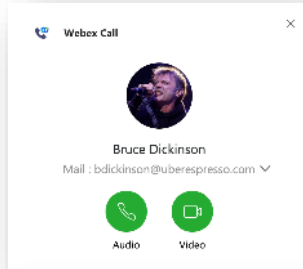
- Microsoft Teams Rooms
- Microsoft Teams Displays
- Microsoft Teams Panels

Introduction

Webex integrations with Microsoft Teams

Webex Calling

Launch enterprise-grade calls powered by Webex directly from Microsoft Teams



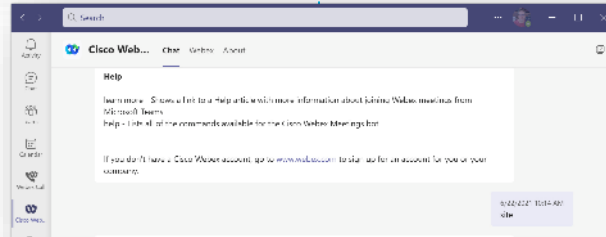
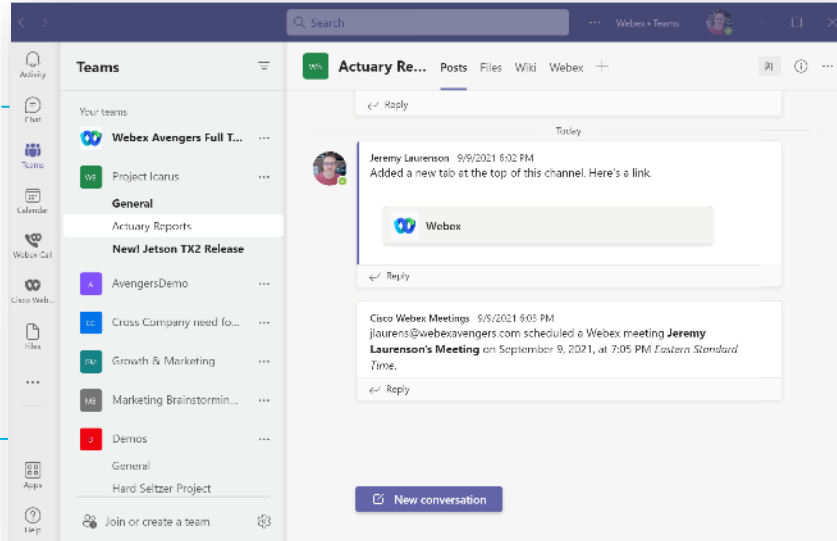
Webex Meetings

Enable high-security meetings with Webex end-to-end encryption



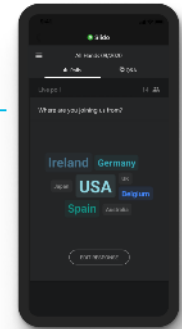
Webex Messaging

High-security messaging powered by Webex interoperates with Microsoft Teams through a simple third-party integration



Cisco Devices

Take advantage of award winning Cisco Devices for immersive and inclusive collaboration experiences



Webex Slido

Integrate Cisco's industry-leading audience engagement platform with Microsoft Teams

RoomOS: Choose your experience



RoomOS experience



Open Platform strategy



Microsoft Teams experience



Cisco Devices for Microsoft Teams

OR

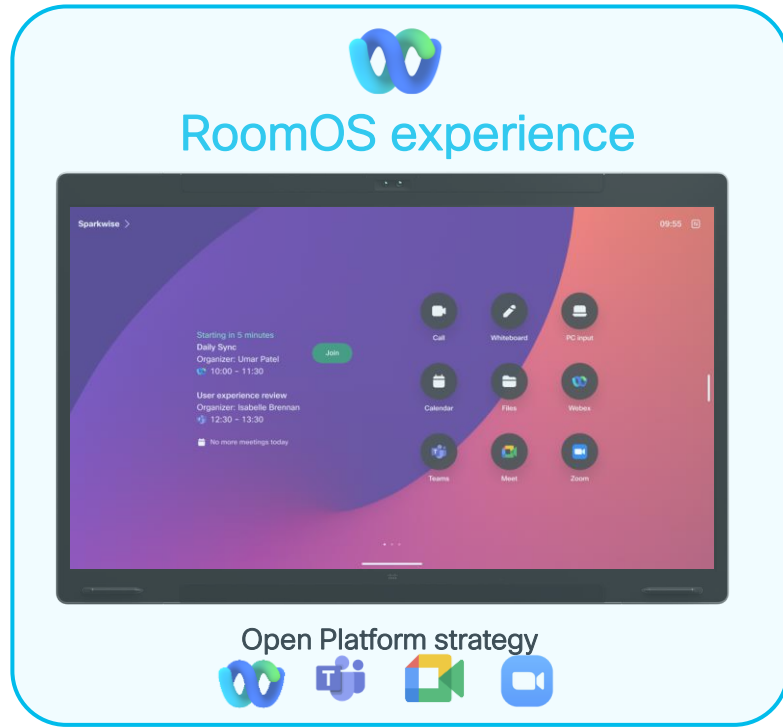
Same device, powered by Cisco RoomOS

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 - Microsoft Teams Rooms
 - Microsoft Teams Displays
 - Microsoft Teams Panels

Cisco video devices and the RoomOS experience

RoomOS: Choose your experience



OR

Microsoft Teams experience



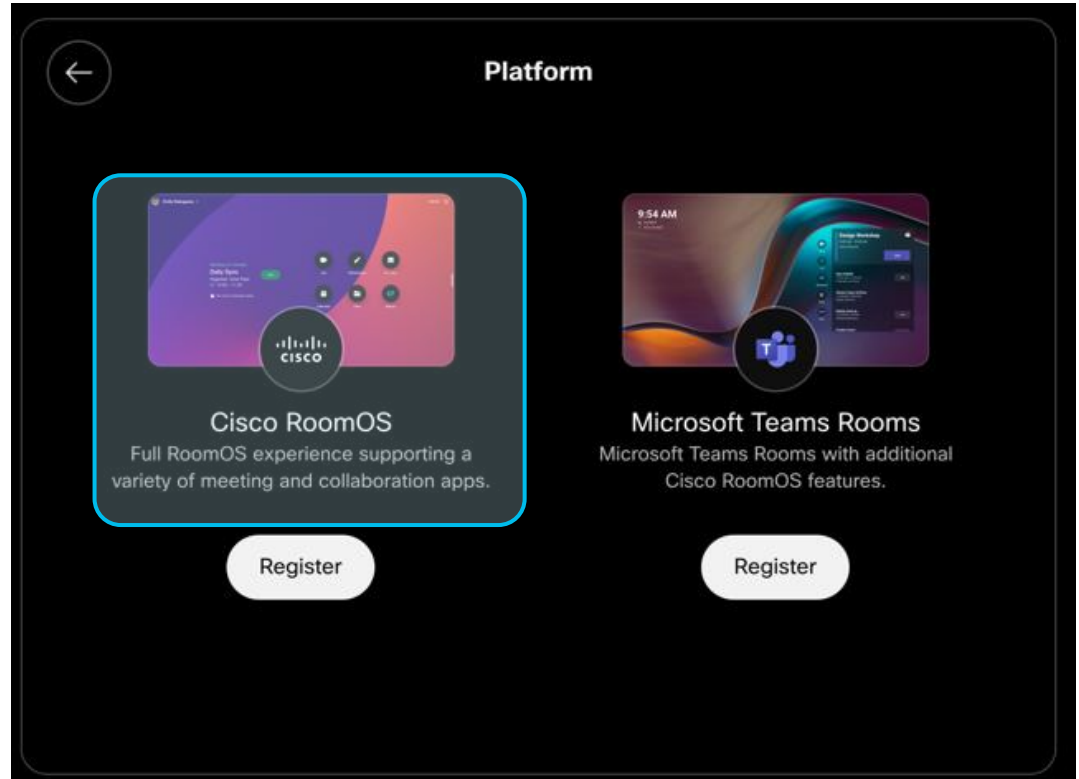
Cisco Devices for Microsoft Teams

Same device, powered by Cisco RoomOS

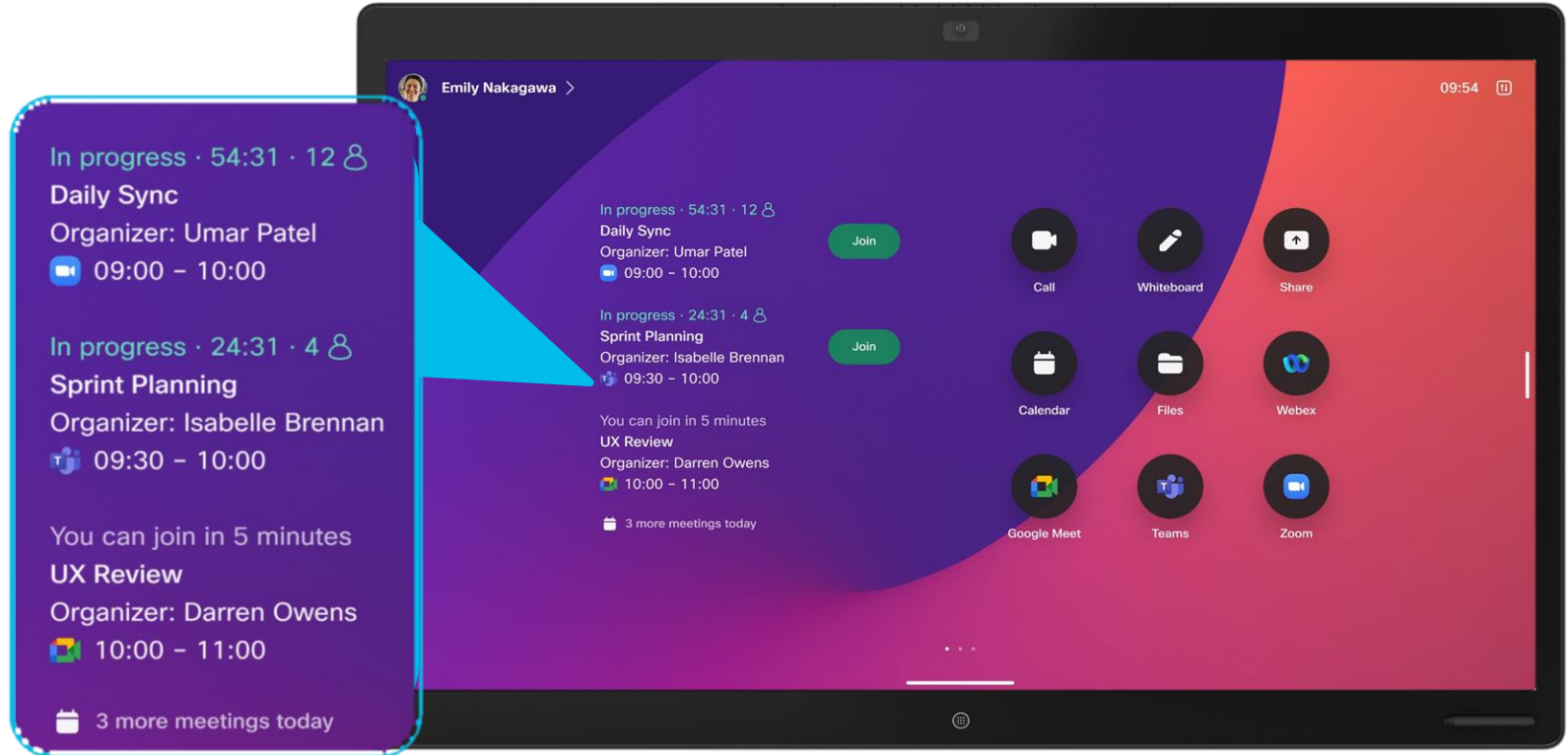
Choose your experience

Available with RoomOS
11 through:

- Initial setup for new devices
- Factory reset for devices in use



Open Platform strategy



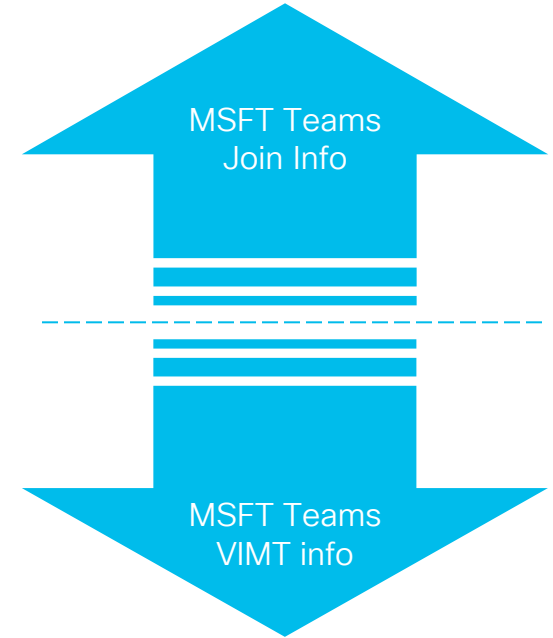
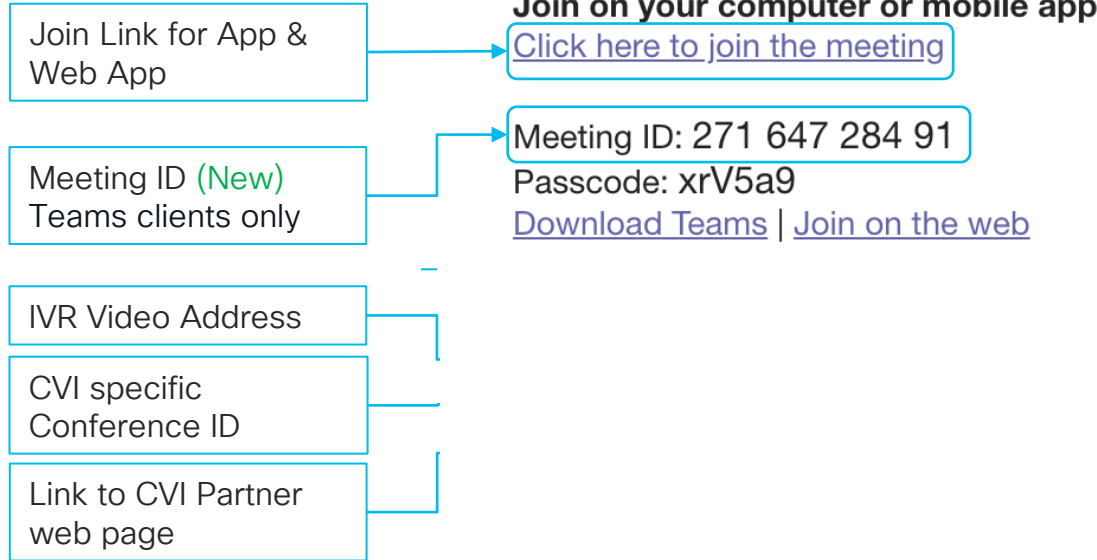
Video Integration with Microsoft Teams (VIMT) – CVI Gateway



Microsoft Teams Meetings with VIMT

Microsoft Teams meeting

Meeting invite



Microsoft Teams Live Events with VIMT

Cisco Webex VIMT allows video devices to join a Microsoft Teams live event as **presenter**

Organizers schedule a live event with the Microsoft Teams client (not with Outlook). The VIMT service does not require additional configuration. A live event invite includes join details for video devices.

For details see this help article: <https://help.webex.com/en-us/article/4y1y9x/Webex-Video-Integration-for-Microsoft-Teams-live-events>

Microsoft Teams

[Join live event](#)

Join as producer or presenter when it's time for the live event.

Do not forward this invite to the attendees.

+44 20 3321 5238 United Kingdom, London (Toll)

Conference ID: 448 414 152#

[Local numbers](#) | [Reset PIN](#)

[Producer help](#) | [Presenter help](#) | [Learn more](#)

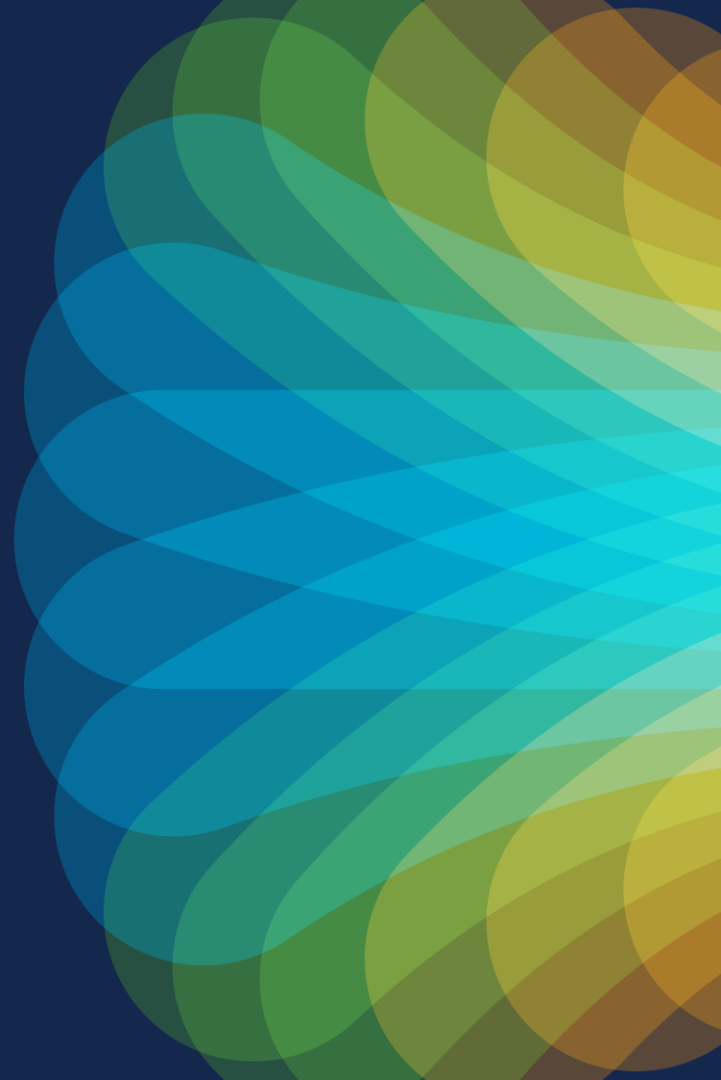
[Manage live event resources](#)

Join with a video conferencing device

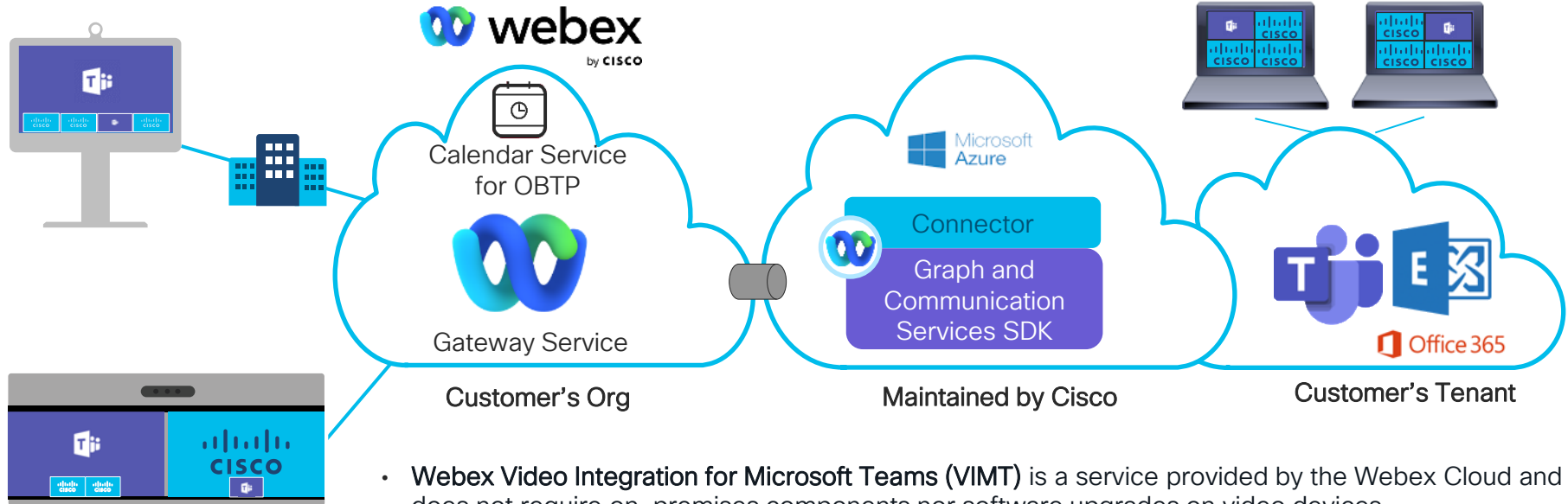
uberespresso@m.webex.com VTC Conference ID: 1252118847

[Alternate VTC instructions](#)

VIMT Architecture

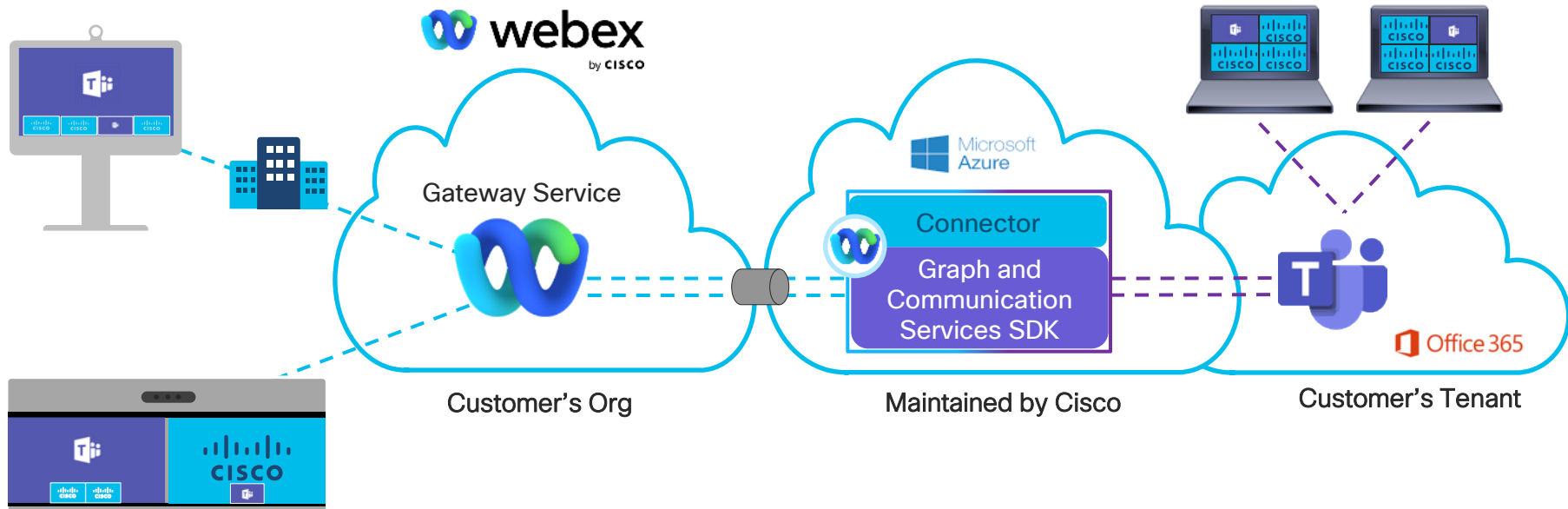


Video Integration for Microsoft Teams (VIMT) gateway



- **Webex Video Integration for Microsoft Teams (VIMT)** is a service provided by the Webex Cloud and does not require on-premises components nor software upgrades on video devices
- Webex video infrastructure and Microsoft SDK are hosted in Azure and maintained by Cisco on behalf of customers
- Available to **On-prem** Registered, **Cloud** Registered/Aware Webex Rooms, and 3rd party SIP endpoints

Video Integration for Microsoft Teams Gateway – Signaling path



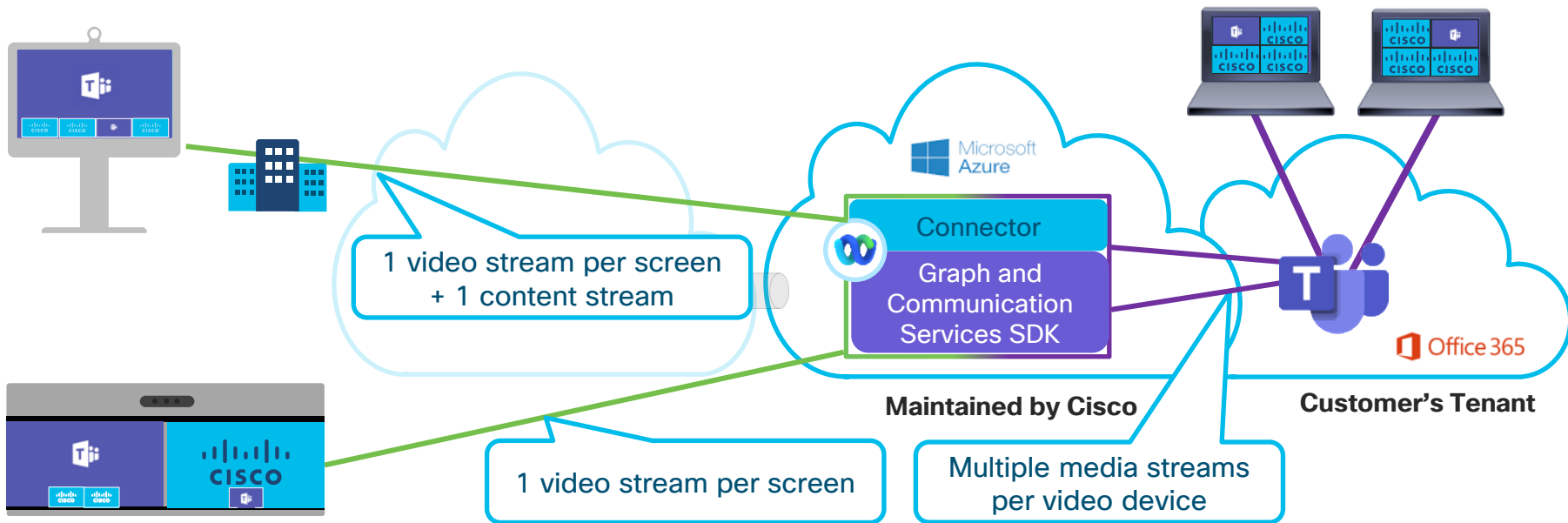
- On-prem video devices must be able to call the Webex domain for VIMT over SIP
 - Interworking to H.323 can be provided by local on-prem infra (i.e. VCS/Expressway)
- Example: Endpoint<->CUCM<->Expressway-C<->Expressway-E<-internet->Webex Cloud

--- Webex signaling
--- Microsoft signaling

CISCO *Live!*

Video Integration for Microsoft Teams Gateway

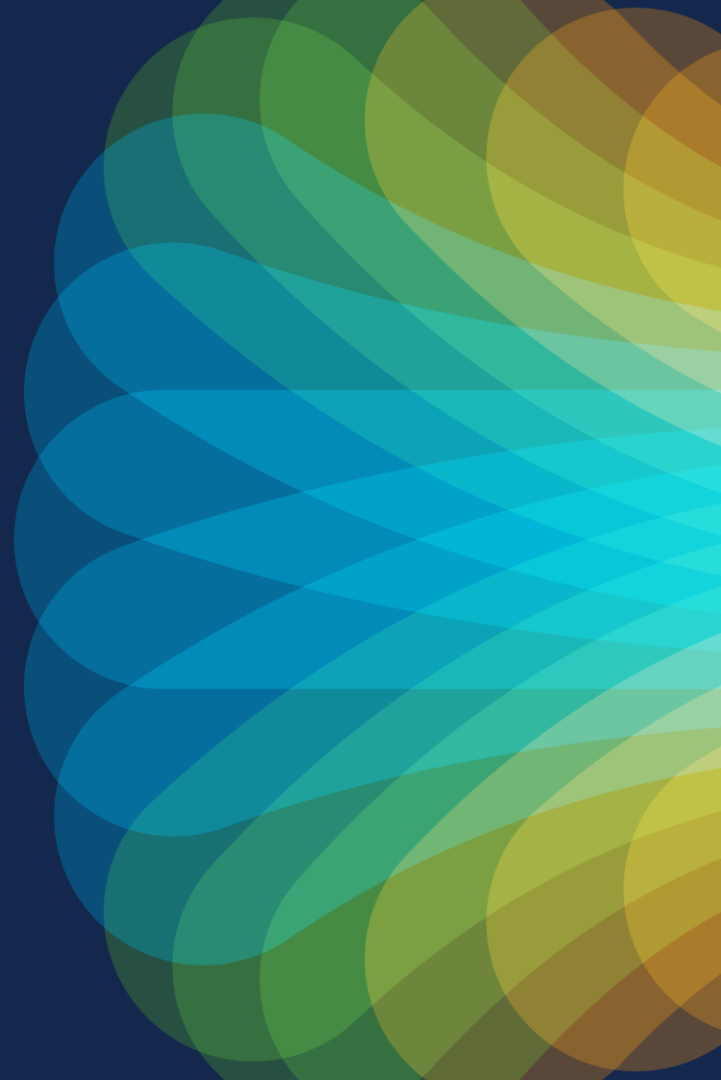
Media path



- Single stream media
- Microsoft Teams Multistream media

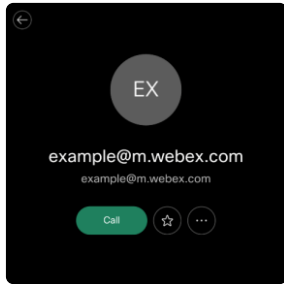
- Media of Webex cloud registered video devices flows directly to the Azure DC maintained by Cisco
- Media of on-premises-registered video devices flows to the Azure cloud maintained by Cisco via the local SIP infrastructure:
Example: Endpoint<->Expressway-C<->Expressway-E<-Internet->Cisco-maintained Azure Tenant
- No Video Mesh support

Joining methods

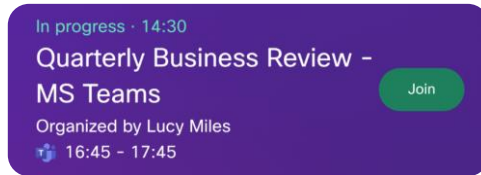


Joining methods for VIMT

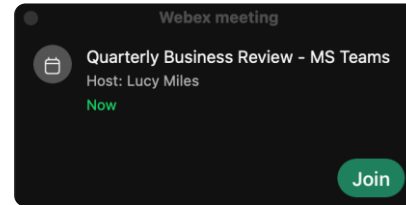
Direct Dial in



One Button to Push



Webex App notification



Microsoft Teams button

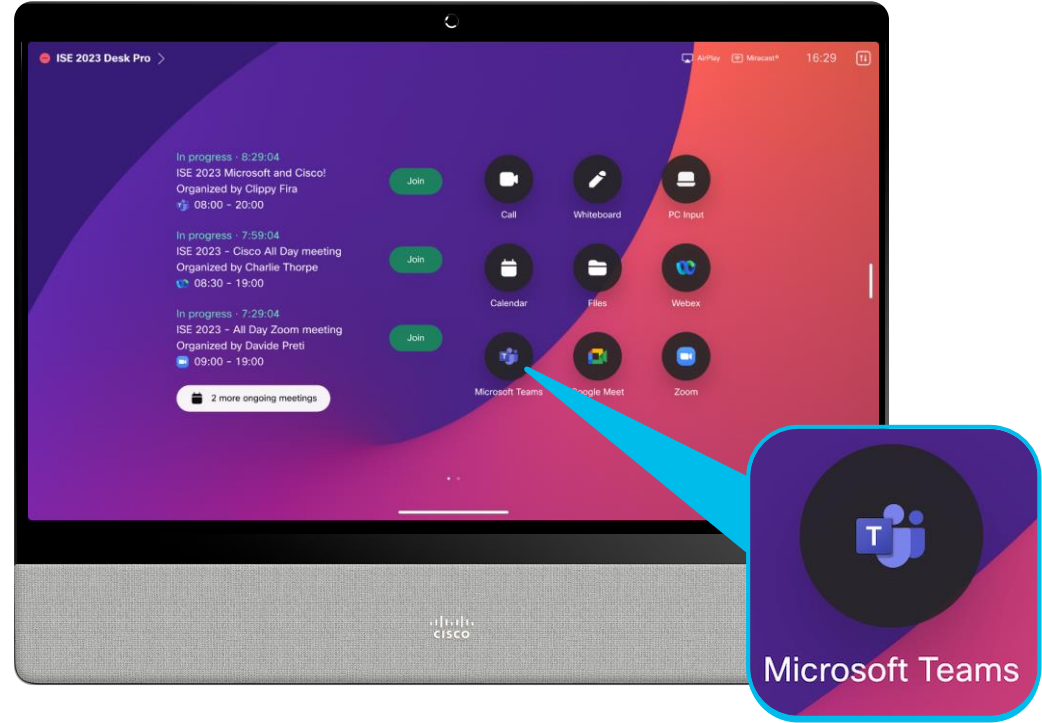


New Microsoft Teams button to join VIMT and WebRTC meetings

New!

A combined button to choose the type of meeting customers want to join will be released

Available for VIMT & Pexip CVI and WebRTC



New joining button for VIMT (and Pexip CVI)

Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Meeting ID: 271 647 284 91

Passcode: xrV5a9

[Download Teams](#) | [Join on the web](#)

Join with a video conferencing device

[example@m.webex.com](#)

Video Conference ID: 118 489 176 5

[Alternate VTC instructions](#)

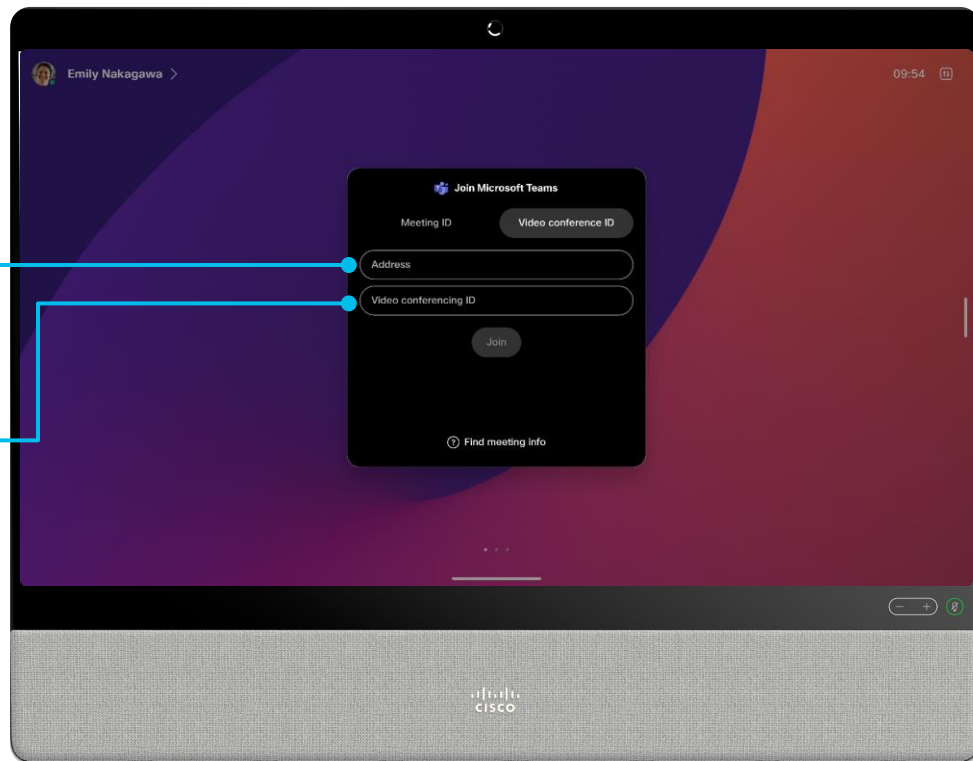
Or call in (audio only)

+1 469-998-6090, 401374203# United States, Dallas

Phone Conference ID: 401 374 203#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)



Configuring CVI option on join button

- Option 1: From Control Hub Device configuration

Select configurations

Select one or more configurations to apply to the selected device.

409 configurations ⓘ

Q cvi|

User Interface > Features > Call > Join Microsoft Teams**CVI**

User Interface > Meeting Join **CVI** Tenants

CVI tab: Auto/Hidden
Field to write the tenant

Option 2: From Device Command Line Interface

```
xConfiguration UserInterface Features Call JoinMicrosoftTeamsCVI: Auto  
xConfiguration UserInterface MeetingJoin CVITenants: "mySIPdomain@m.webex.com"
```

Hybrid Calendar for VIMT Feature Roadmap

One Button To Push for 3rd party CVI providers

Now GA!

Hybrid Calendar will now support 3rd Party Microsoft CVI providers when **common 'Alternate VTC instruction'** links are used.

Supported 'Alternate VTC instruction' link URLs:

- <https://pexip.me/teams>
- <https://dialin.bluejeans.com/teams>
- <https://dialin.plcm.vc/teams>

Example Teams invite generated by Microsoft

Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Meeting ID: 271 647 284 91

Passcode: xrV5a9

[Download Teams](#) | [Join on the web](#)

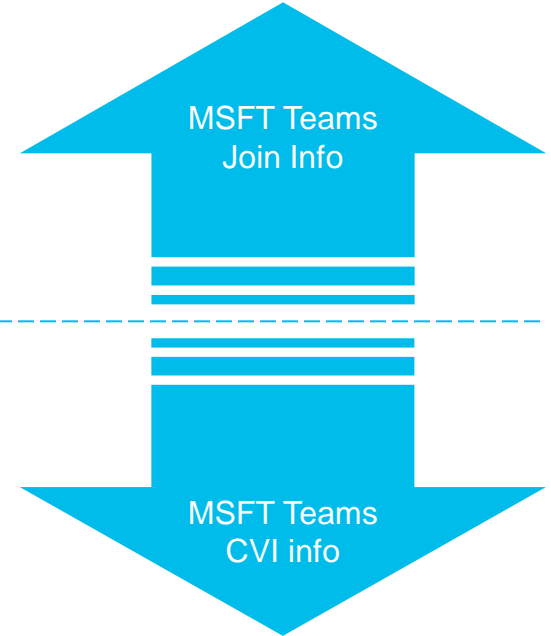
Join with a video conferencing device

example@m.webex.com

Video Conference ID: 118 489 176 5

[Alternate VTC instructions](#)

Link to CVI Partner
web page



Alternate Dialing Instructions Page

Cisco Webex

Video Meeting Invitation

Join meeting directly

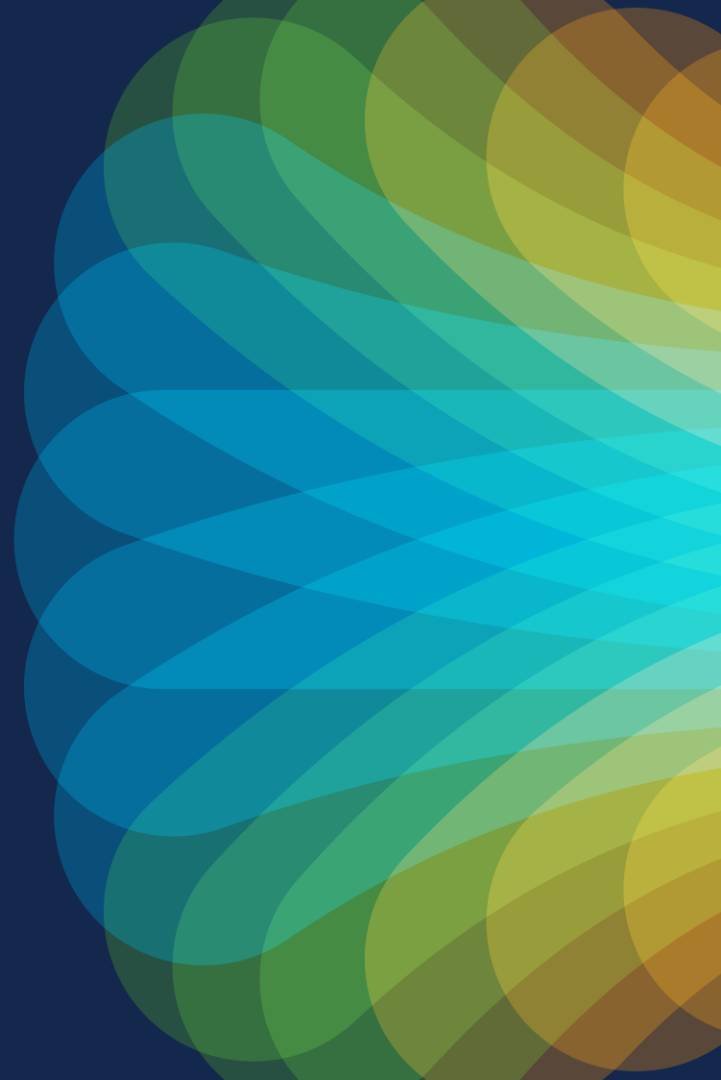
Enter 1184891765.example@m.webex.com on a Cisco Webex Room or other video (SIP/VTC) endpoint

Join through a prompt for VTC conference ID

Enter example@m.webex.com and then the VTC conference ID 1184891765 followed by #

Powered by Cisco Webex Video Integration for Microsoft Teams

In-meeting experience



Layouts

Flexible layouts

Up to 9 participants on screen

CVI can display up to 9 concurrent participants

With VIMT video participants are prioritized over audio-only in the layout composition

Single, dual and triple screen supported



VIMT Layouts

For single screen devices

Video participants only



Grid

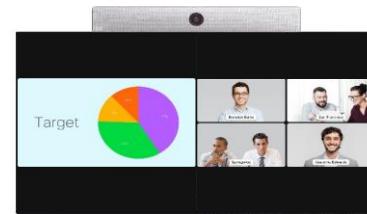


Stack

With content being shared



Stack



Side by side



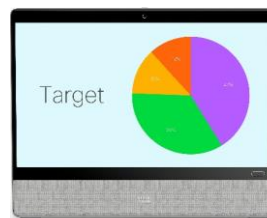
Focus



Prominent



Overlay



Focus



Floating

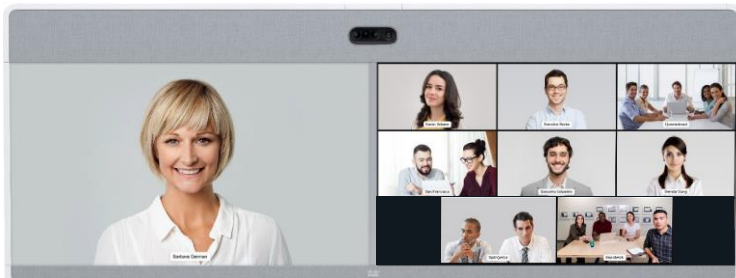
Note: Maximum number of participants seen is up to 9

VIMT layouts

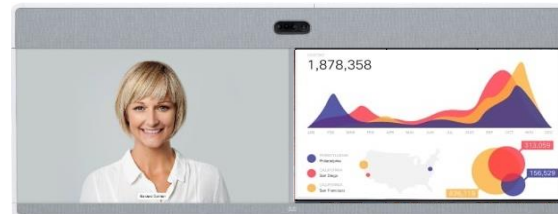
For dual and triple screen devices

For your
reference

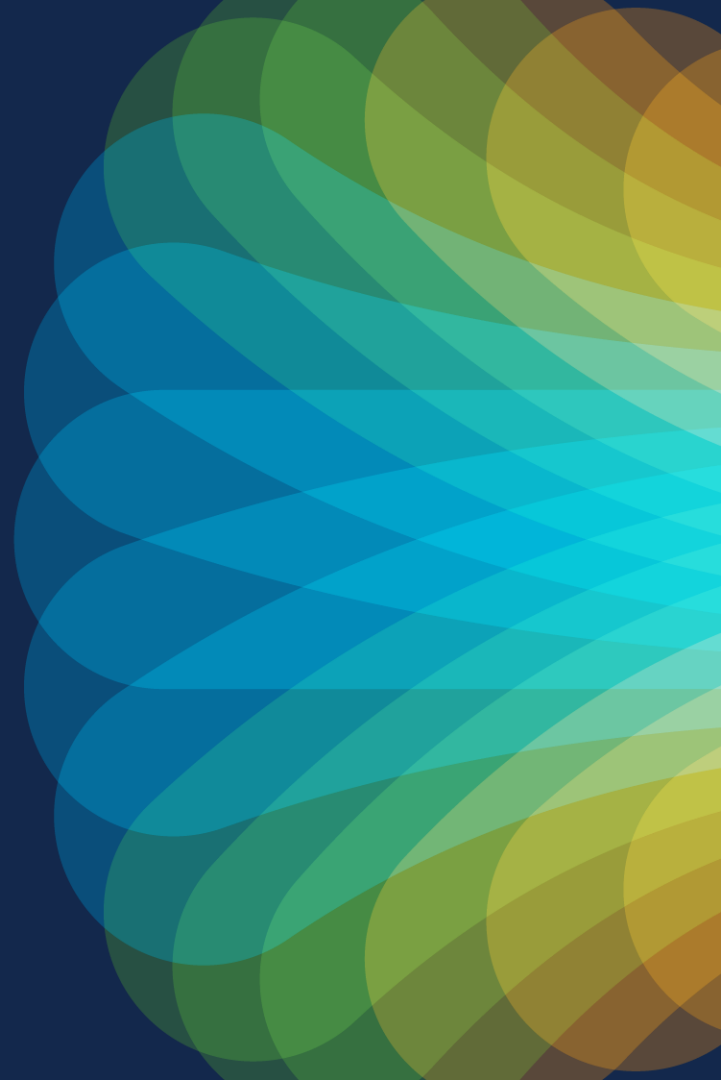
Video participants only



With content being shared



VIMT Functionalities



Webex VIMT (CVI) Features – Summary

Supported video devices

- Cisco cloud-registered
- Cisco on-prem registered
- Webex Edge for Devices enabled
- SIP standard based
(H.323 via on-prem interworking)

Features available to any device

- 1080p main video quality
- Family of layouts for Video devices
- Layout control via DTMF
- 2-way content sharing
- Server-side Mute/Unmute management via DTMF
- Recording Indicator
- Configurable lobby management policy
(guest access / lobby bypass)
- Presenter with Live Events

Unique features for Cisco Rooms (*)

- OBTP Join (One Button To Push)
- Multi-screen support
- Integrated Participants List
- Active Layout Control (via Touch 10)
- Server/Local Mute status sync
- Webex Assistant
- Frames
- Unidirectional Whiteboarding from Cisco Board and DeskPro
- Call Trouble-shooting in Control Hub

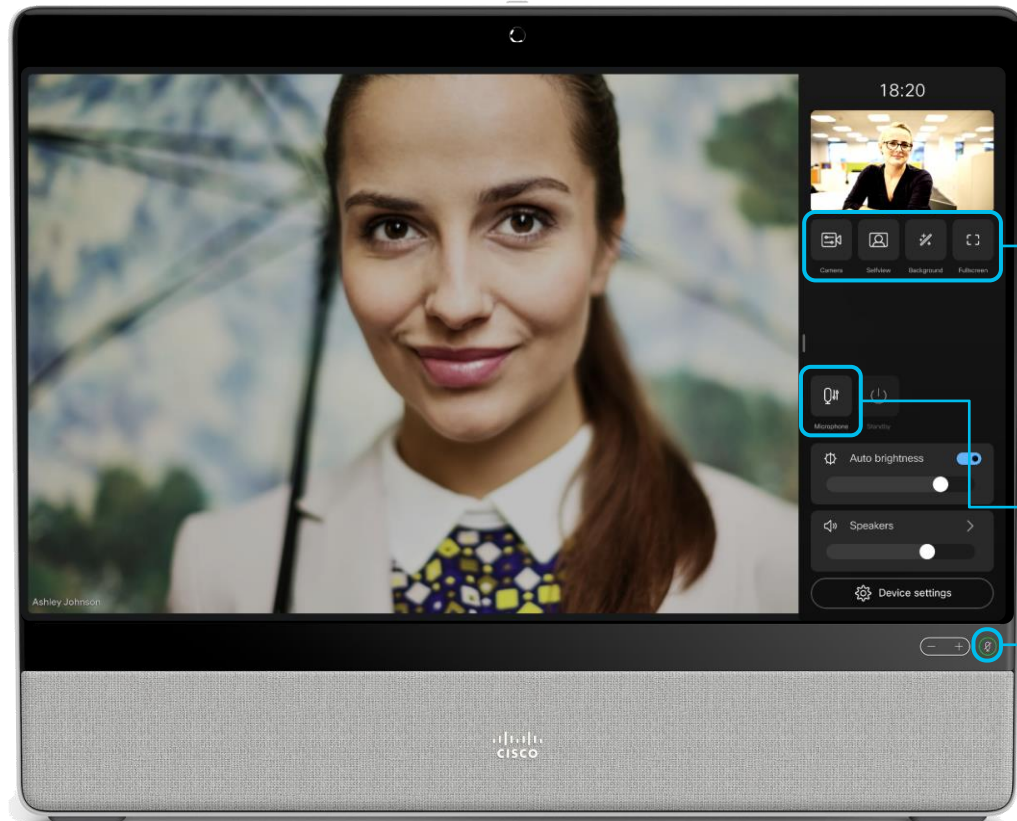
(*) Some features require cloud registration or Webex Edge for Devices.
Local in-call device features are supported for any deployment model
(i.e. best overview, speaker track, noise canceling, etc)



BRKCOL-2184

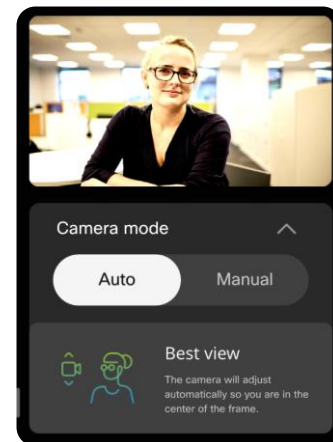


Local device controls



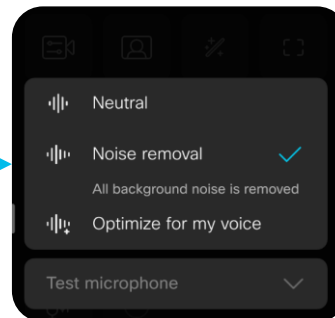
Camera settings

Camera settings such as Best View, SpeakerTrack or Frames work on any meeting platform



Audio settings

Users can benefit from local Cisco Devices audio settings



Mute/unmute sync

Mute sync depends on the meeting service

CVI and VIMT

What's next

Neither Microsoft or Cisco are defocusing on CVI

In fact, the development of CVI is part of our joint agreement to certify our video devices for Microsoft Teams

Microsoft has just announced improvements and new features for CVI, such as “SIP Guest Join”

These features, in fact, strengthen our commitment to an open platform – meeting agnostic – approach

SIP Guest Join with VIMT

It will allow you to use your VIMT gateway to join any P2P Microsoft Teams meeting hosted in

In simple terms:

Users from CompanyA will be able to use their own CVI gateway (i.e. VIMT) to join MS Teams meetings hosted by CompanyB – who has NO CVI

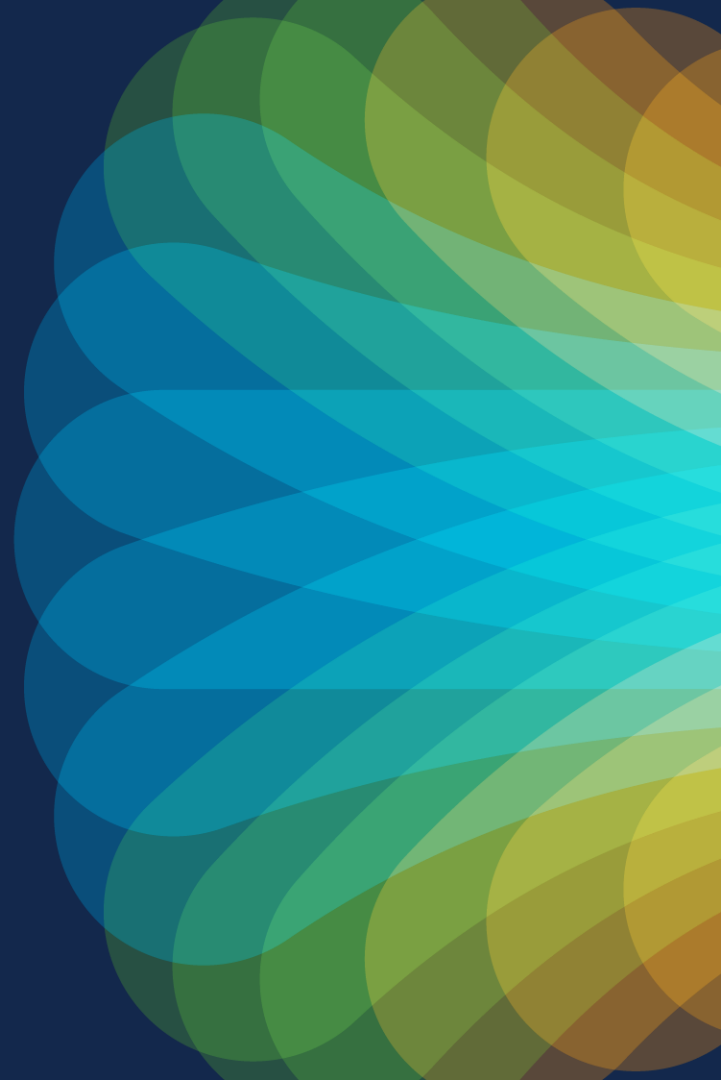
Sending a query to Microsoft to get CVI details to join the meeting using CVI
Planned with Cisco VIMT within CY23



NOTE: Cisco name is Cross-tenant Join

VIMT troubleshooting

- Overview



VIMT licensing offers

VIMT Active Devices

Active device

Any device using service twice or more in 30-day period needs a license

Annual True Forward

Average over last 3 months can be used to compute True Forward annually

Devices owned or guests

Minimum purchase

Minimum purchase is 5 licenses

 10% overage allowed

Reporting

License report showing unique devices on Webex Control Hub

VIMT All Devices

All devices

Covers all devices customers owns/operational

Annual True Forward

Annual True Forward review of devices in use

No cost for guests

Guest devices can join without additional licensing costs

Customer to update subs with new devices

Customer to keep current subscription as they deploy new devices, and to update subscription as they buy new devices within 60 days of deployment

Minimum purchase

Minimum purchase is 25 licenses

Device Troubleshooting for VIMT



By device name

Search by device name only. Search by meeting ID not available for Microsoft Teams meetings



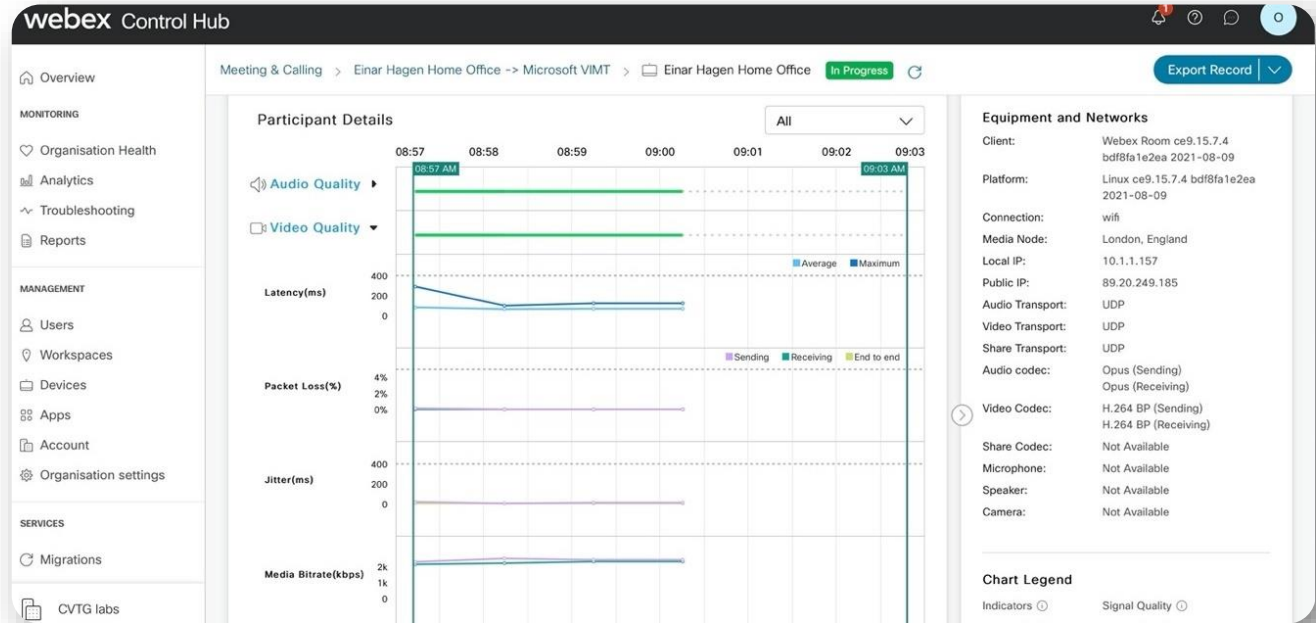
Stats

Stats per device, real time or historic



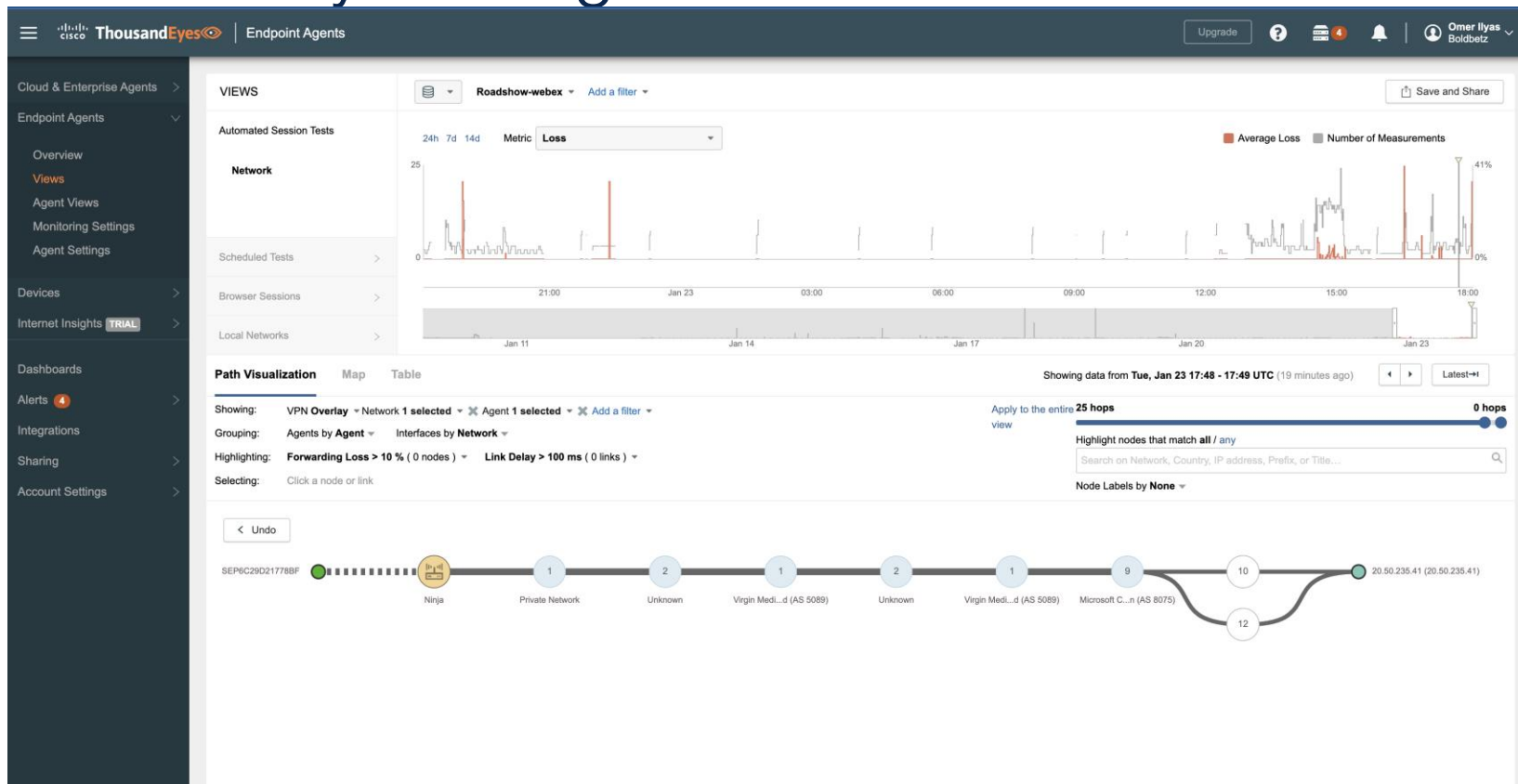
Availability

Tshoot is available for Cloud registered devices or for Webex Edge for Devices with Optimized Webex Meetings experience (NO SIP)

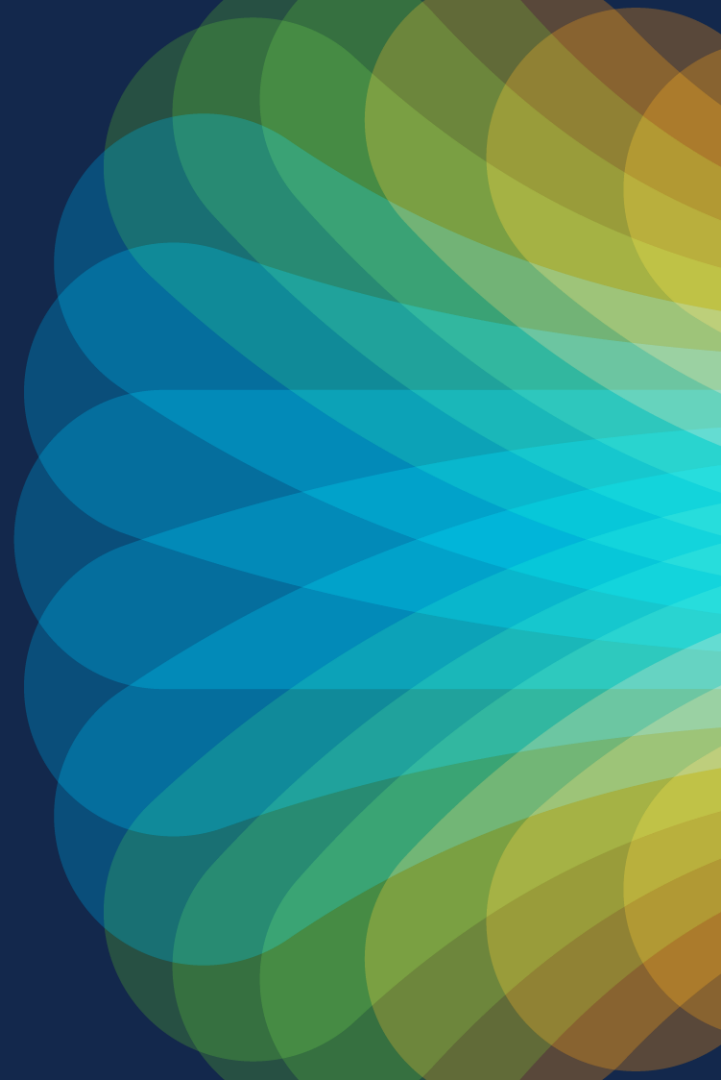


ThousandEyes integration

NEW!



Summary of Video Interoperability with Microsoft Teams



Webex VIMT (CVI) Feature summary

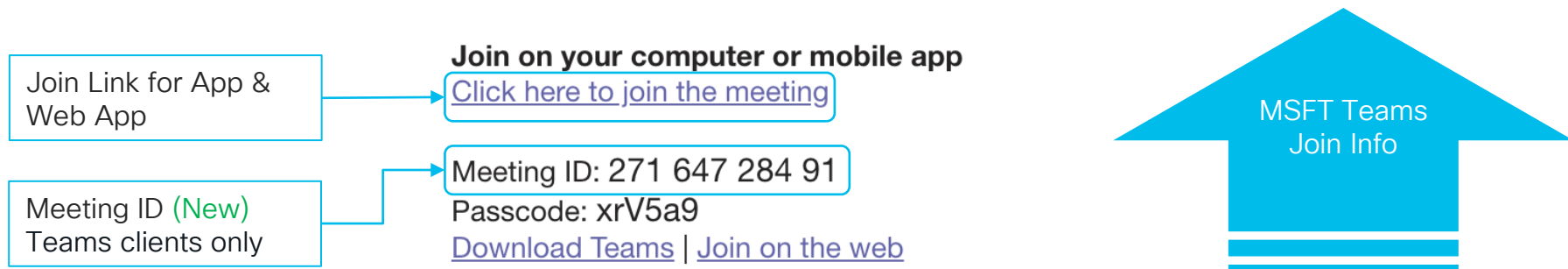
For your reference

Features	Device Deployment Model				
	Webex Cloud-registered	Webex Edge for Devices enabled		Cisco On-prem	3 rd party SIP Device
		Native Webex Experience	Non-Native Webex (SIP) Experience		
Family of layouts (Flexible Layouts)	✓				
Layout control via DTMF	✓				
Active layout control (Touch10)	✓				
2-way content sharing	✓				
Recording indicator	✓ (Out of band icon)				
Configurable Lobby bypass	✓				
One Button To Push	✓				
Multi-screen support	✓				
Integrated participants list	✓				
Mute Sync	✓				
Unidirectional Whiteboarding from Cisco Boards and DeskPro (non-interactive)	✓				
Support for 1080p	✓				
Support for Teams Live Events	✓				
Call Troubleshooting in Control Hub	✓				

Direct Guest Join (WebRTC)

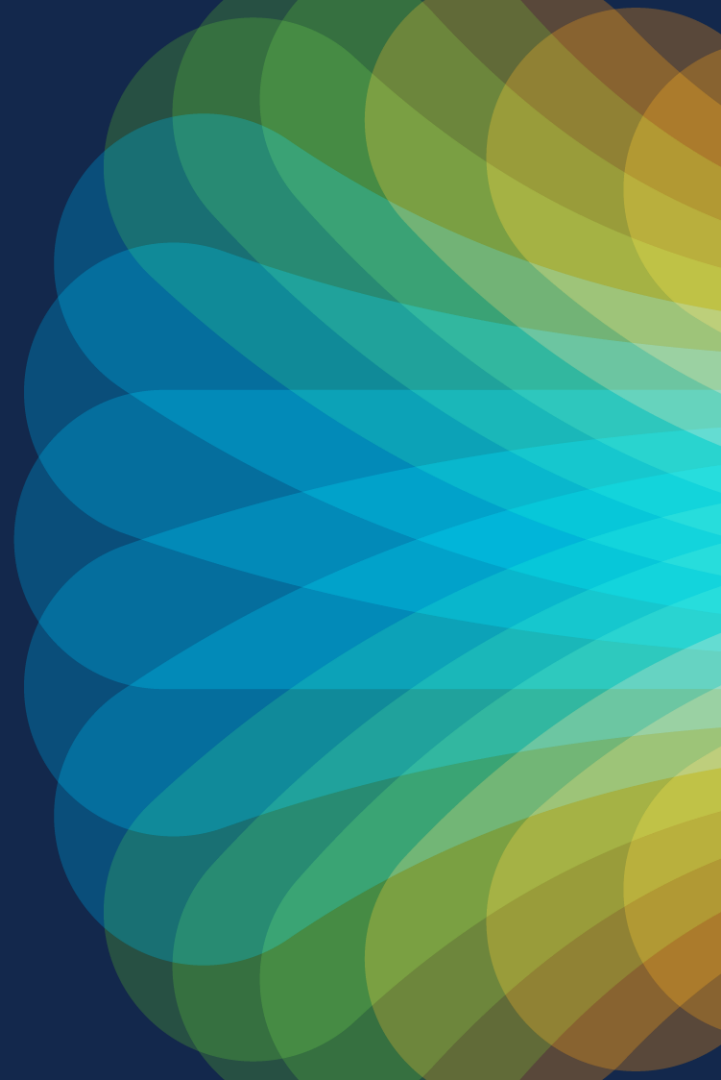
Example Teams invite generated by Microsoft

Microsoft Teams meeting



Direct Guest Join is mainly intended for
Business-to-Business non VIMT-enabled meetings

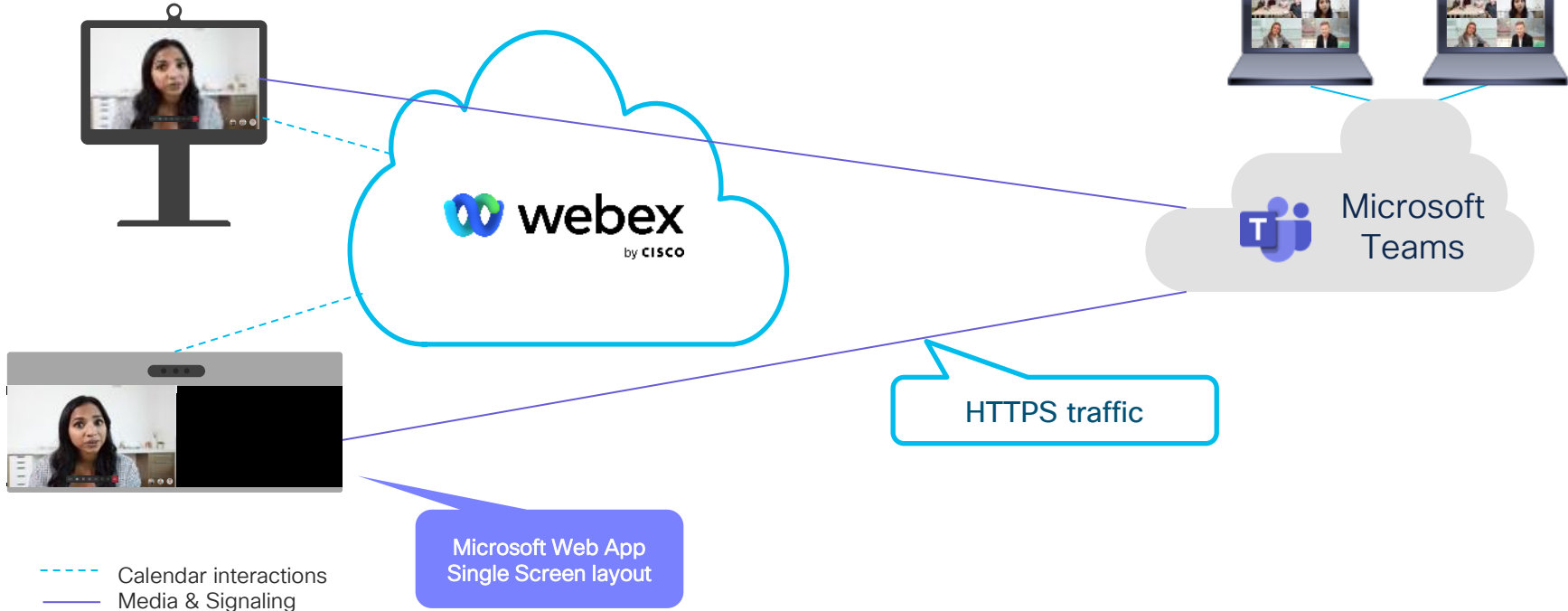
Architecture



Joining Microsoft Teams meetings – WebRTC

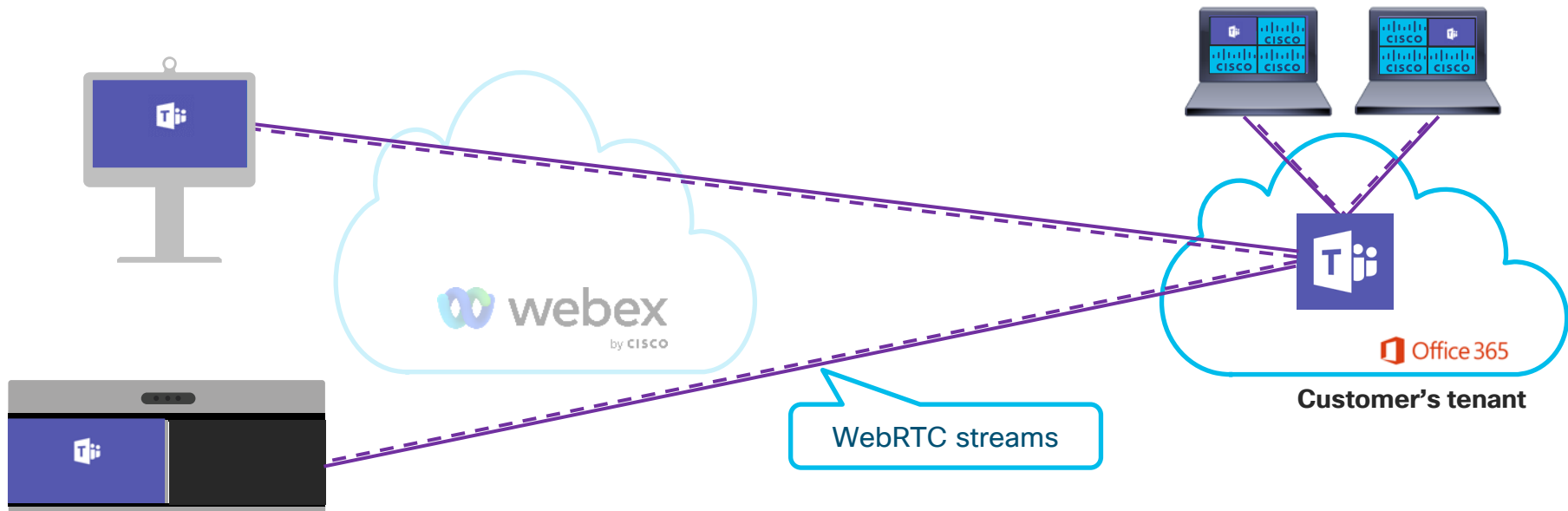
“Architecture” overview

Room Kits, Room Series, Boards, Desk series
(web-engine enabled devices) – devices must be cloud
registered or cloud aware (Webex Edge for Devices)



Joining Microsoft Teams meetings – WebRTC

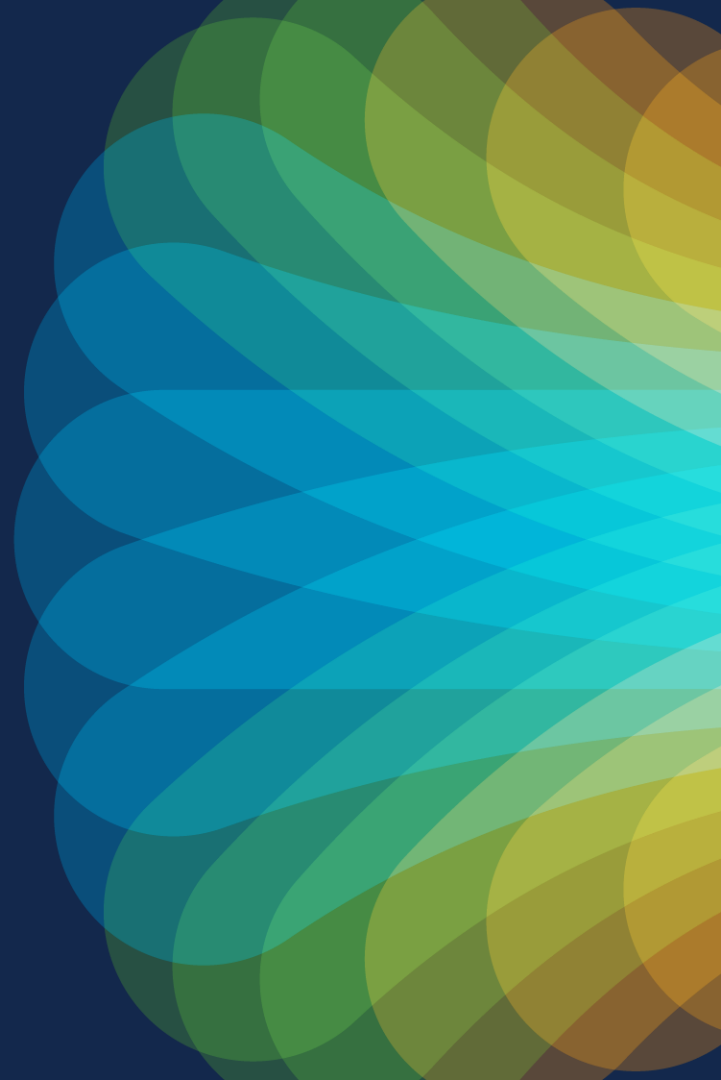
In-meeting signaling and media



--- Microsoft signaling
— Microsoft media

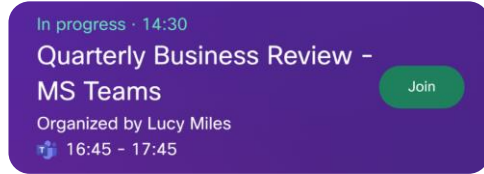
- WebRTC traffic for both cloud registered and cloud aware video devices
 - direct flow from the customer's premises to the Microsoft Teams' bridge
 - does not traverse through Expressway
- Ports 80, 443, 3478-3481

Joining methods

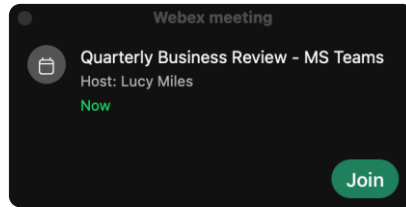


Joining methods for Microsoft Direct Guest Join (WebRTC)

One Button to Push



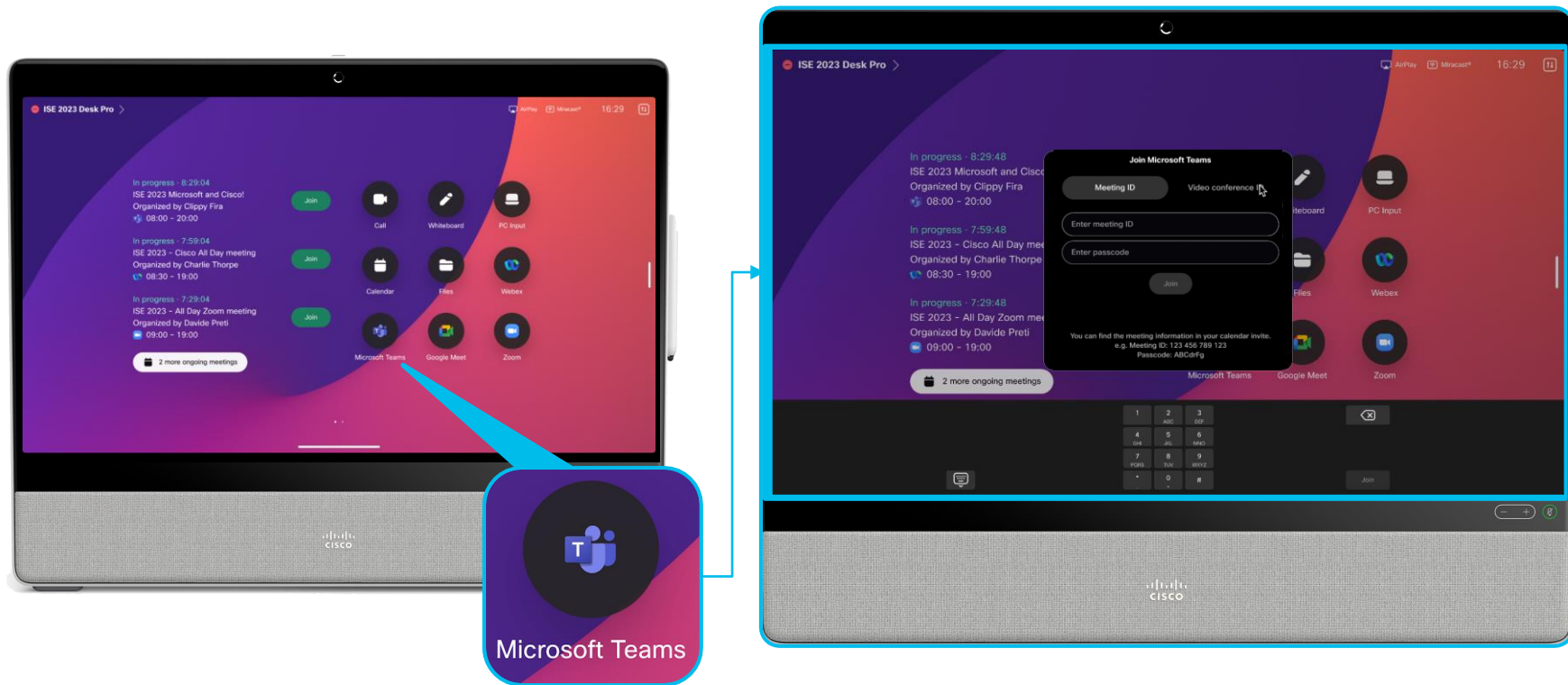
Webex App notification



Microsoft Teams button



Joining by Meeting ID and passcode



New joining button for both WebRTC and VIMT

WebRTC experience

Microsoft Teams meeting

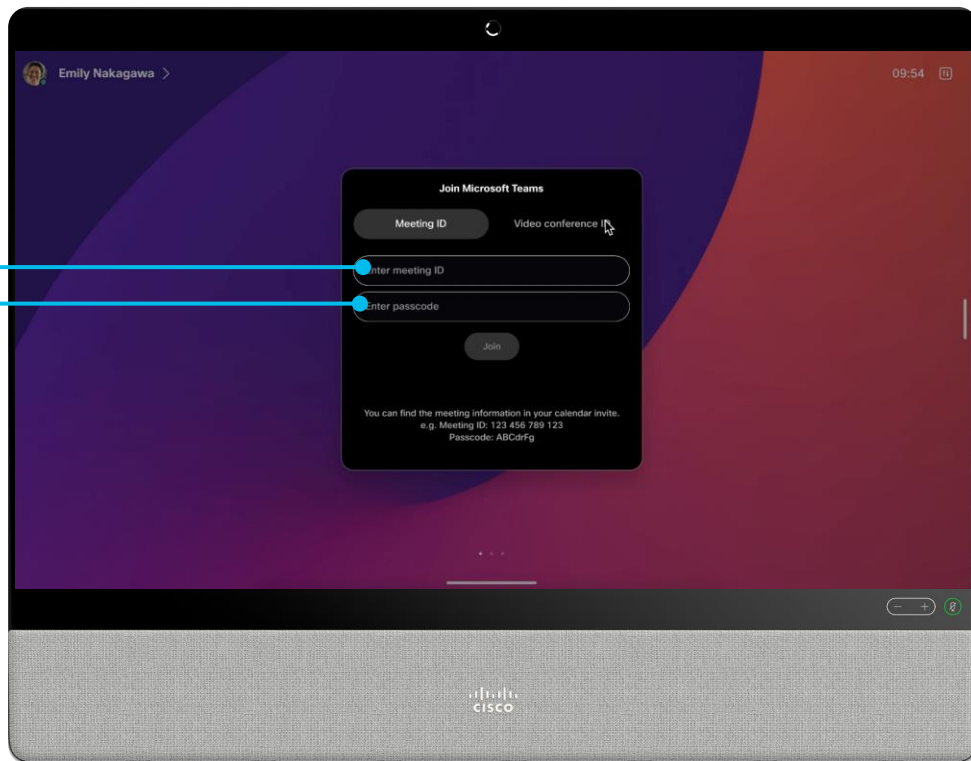
Join on your computer or mobile app

[Click here to join the meeting](#)

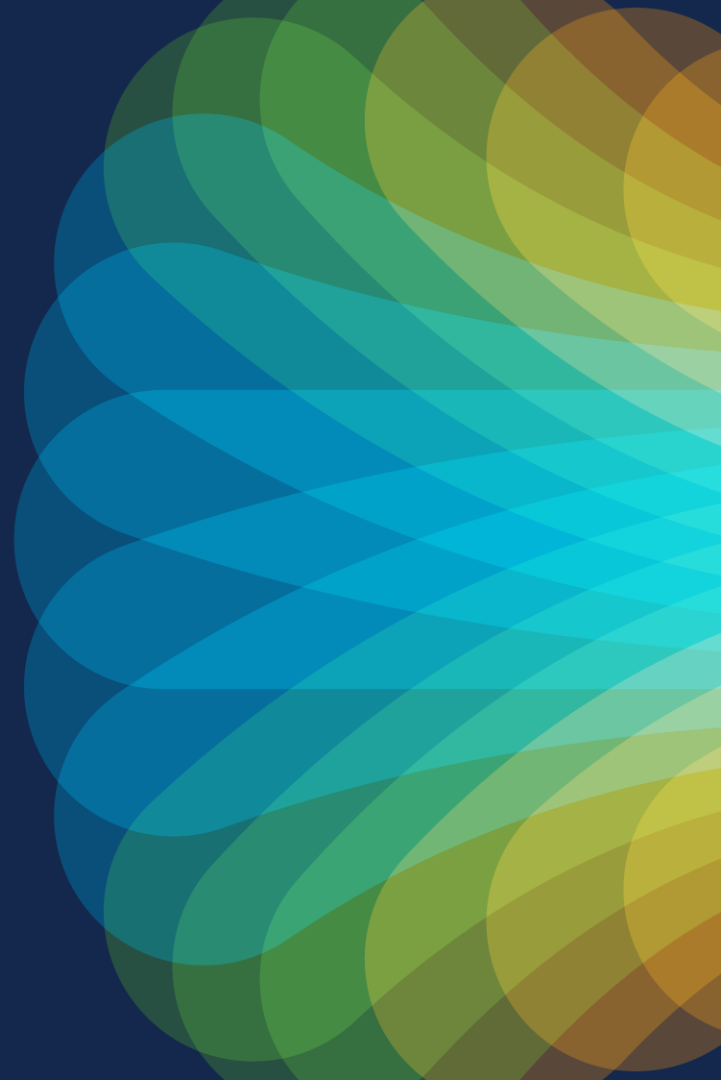
Meeting ID: 271 647 284 91

Passcode: xrV5a9

[Download Teams](#) | [Join on the web](#)



In-meeting experience



WebRTC – Quality considerations

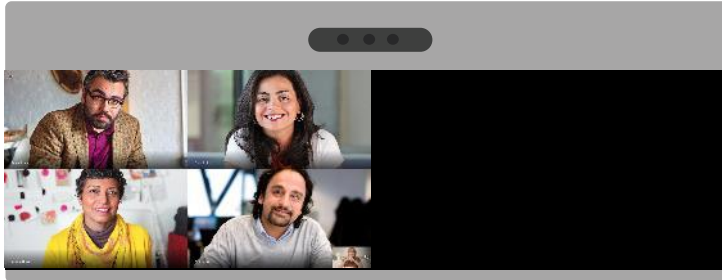
Cisco and Microsoft partnership is showing development improvements by lowering the joining time significantly on the WebRTC client and providing a new Teams client on Cisco devices

Customers have now two options to join Microsoft Teams from Cisco devices, where the CVI/VIMT gives the best experience and WebRTC gives an alternative low cost guest experience

WebRTC layouts

Single and dual screen

Video Participants only

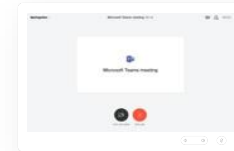
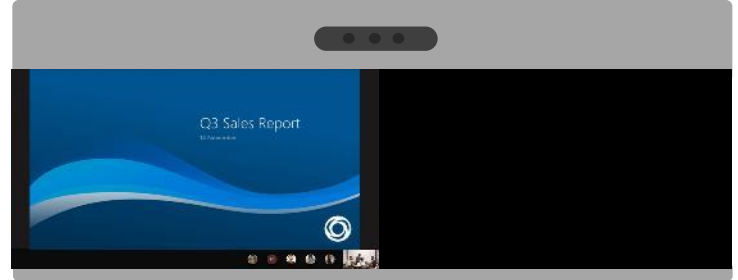


Basic, single screen layout controlled by Microsoft Teams

Up to 6 Active Speakers are shown on video

All local device features such as audio and camera intelligence are available

With content being shared

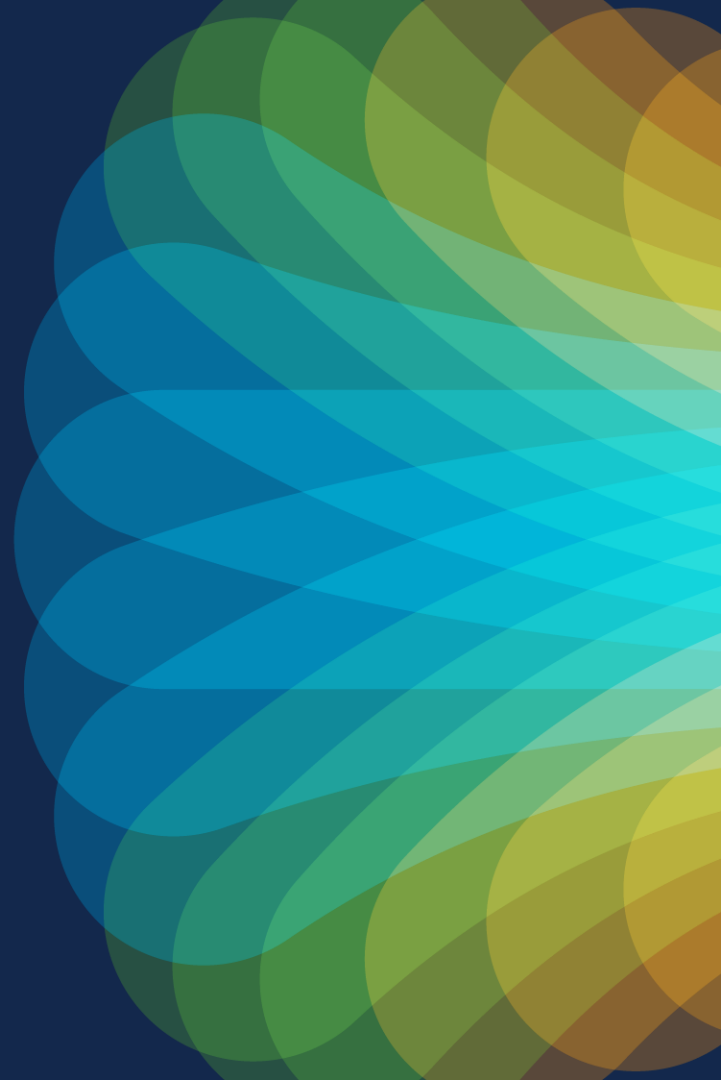


Touchpad
view

Note: Sharing content from Cisco Device is not supported

- Requires use of separate Microsoft Teams client

Licensing



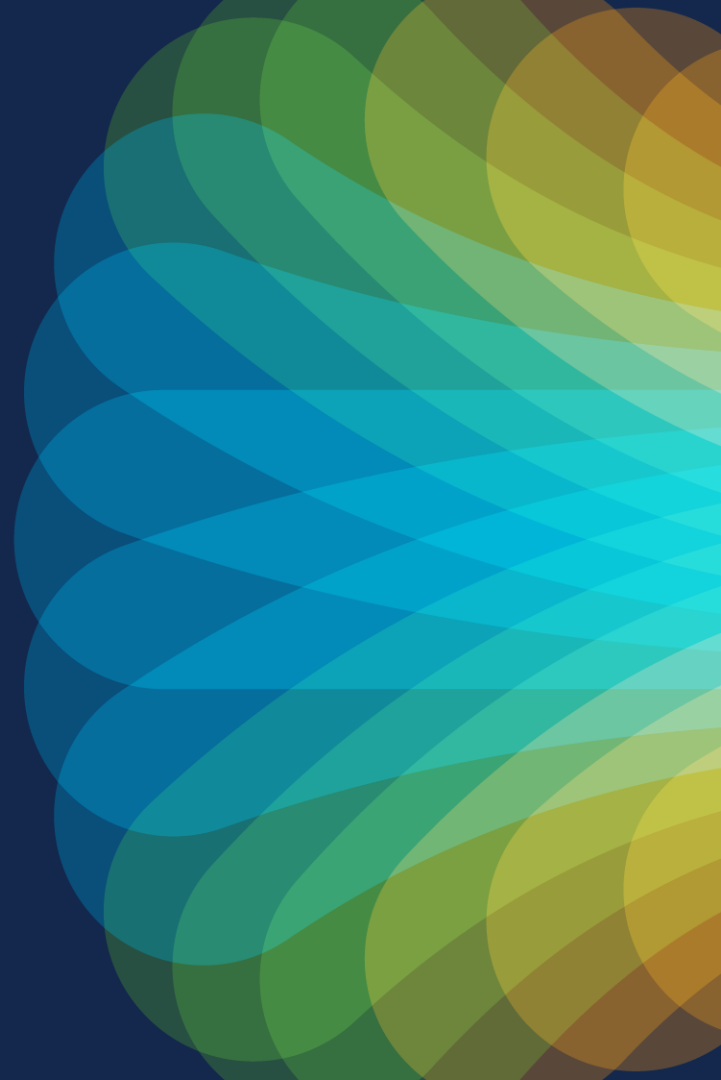
Direct Guest Join - Licensing

Direct Guest Join is supported on modern Cisco Devices registered to Cloud or enabled with Webex Edge for Devices

License:

Included with Cloud Device Registration (via Flex or standalone)

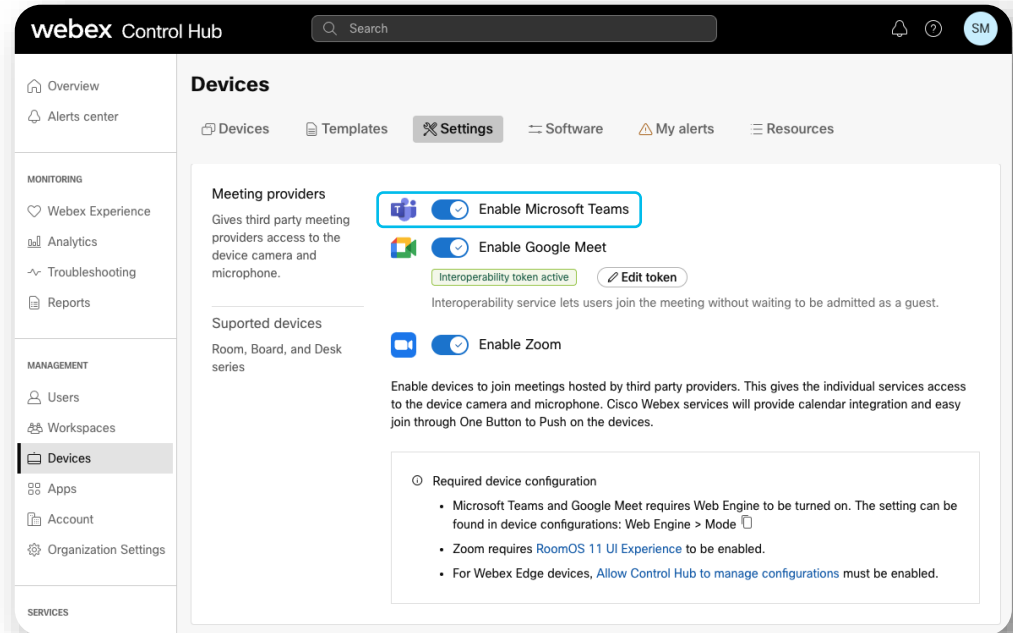
Admin



Enable WebRTC interoperability for Microsoft Teams

WebRTC interoperability for Microsoft Teams can be turned on under the **device settings** in Webex Control Hub.

This also enables the ad-hoc **Joining button** for Microsoft Teams meetings.
(CVI & WebRTC)



Agenda

- ❑ Introduction
- ❑ Cisco video devices and Cisco RoomOS experience:
 - Interoperability using VIMT (CVI) Gateway
 - Interoperability using WebRTC (Direct Guest Join)
- ❑ Cisco video devices and the Microsoft Teams experience:
 - Microsoft Teams Rooms
 - Microsoft Teams Displays
 - Microsoft Teams Panels

Cisco video devices and the Microsoft Teams experience

Built on RoomOS 11

The device platform for hybrid work

- RoomOS is the common OS for all Cisco video devices
- When you switch to the Microsoft Teams experience, RoomOS is still there, underneath an Android container, providing peripheral management and enhanced features
- RoomOS allows customers to **concurrently register** their Cisco “MTR devices” to the Webex Control Hub

RoomOS: Choose your experience



RoomOS experience



Open Platform strategy



OR



Microsoft Teams experience



Cisco Devices for Microsoft Teams

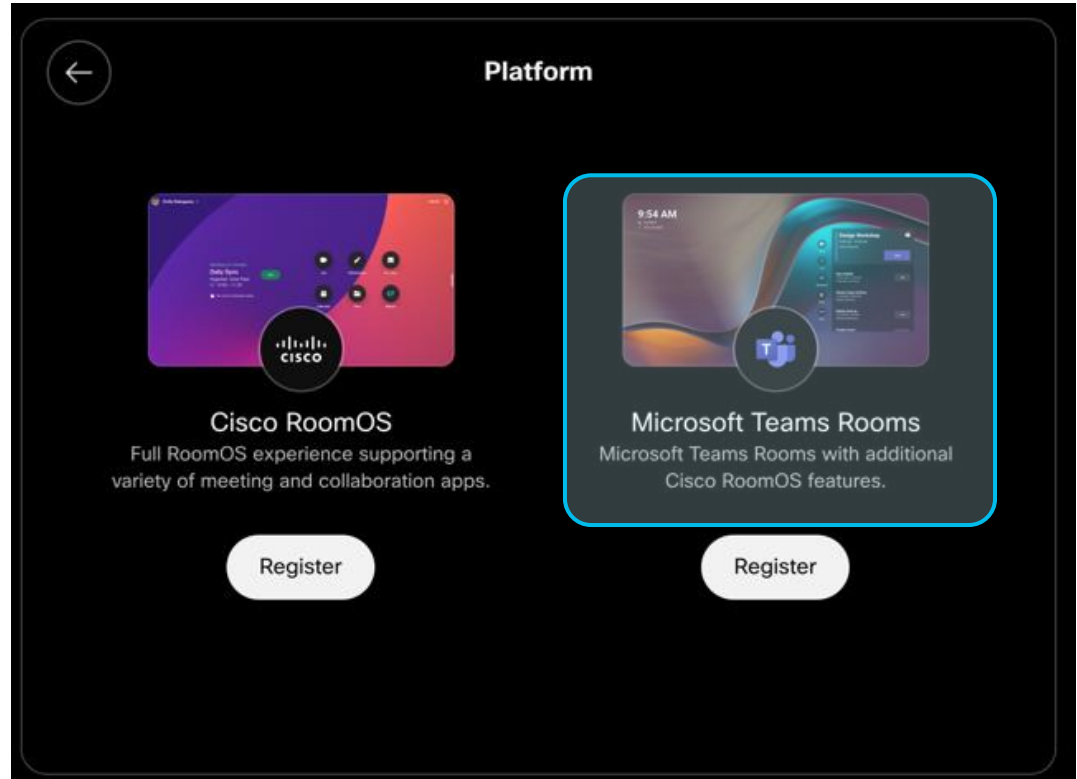
Same device, powered by Cisco RoomOS

Choose your experience

Available with RoomOS 11
through:

- Initial setup for new devices
- Factory reset for devices in use

Or...



Conversion to MTR of Control Hub registered device!

API Usage

To convert an existing device registered to Control Hub, a single command can be used to start the conversion.

- Will maintain device registration in Control Hub
- Will maintain existing analytics settings
- Will maintain existing workspace
- Control Hub will update to reflect that the device is now configured for Microsoft Teams Rooms

The command is:

- `xCommand MicrosoftTeams Install Name: MicrosoftTeamsRooms`

A premium user experience for your Microsoft Teams meetings

Microsoft Teams software is built on top of RoomOS Software in an Android container



Supported devices

Cisco devices for Microsoft Teams Rooms



Room Bar

Integrated video bar appliance designed for simple, flexible and cost-effective video-enablement of [small workspaces](#)



Room Bar Pro

Bringing together the best of both worlds with easy-to-deploy, AI-powered meetings scaled to the [medium workspace](#)



Room Kit EQ

Powerful room kit with the Quad Camera, AI-powered Codec EQ, and smart room peripherals for [medium to large workspaces](#)



Room Kit Pro

Advanced room kit with the Quad Camera, the powerful Codec Pro, and smart peripheral options for [very large workspaces](#) and specialist AV environments



Board Pro

All-in-one video conferencing and digital whiteboarding for [small to medium workspaces](#) and [ideation spaces](#)



Desk Pro

All-in-one video conferencing and digital whiteboarding for [jump rooms](#) and [huddle spaces](#)



Available Now

Cisco devices for Microsoft Teams Rooms

Microsoft Teams Rooms



Room Kit EQX

In Beta

Microsoft Teams Display



Desk Pro

Expected
Beta Q1CY24

Microsoft Teams Panel



Room Navigator

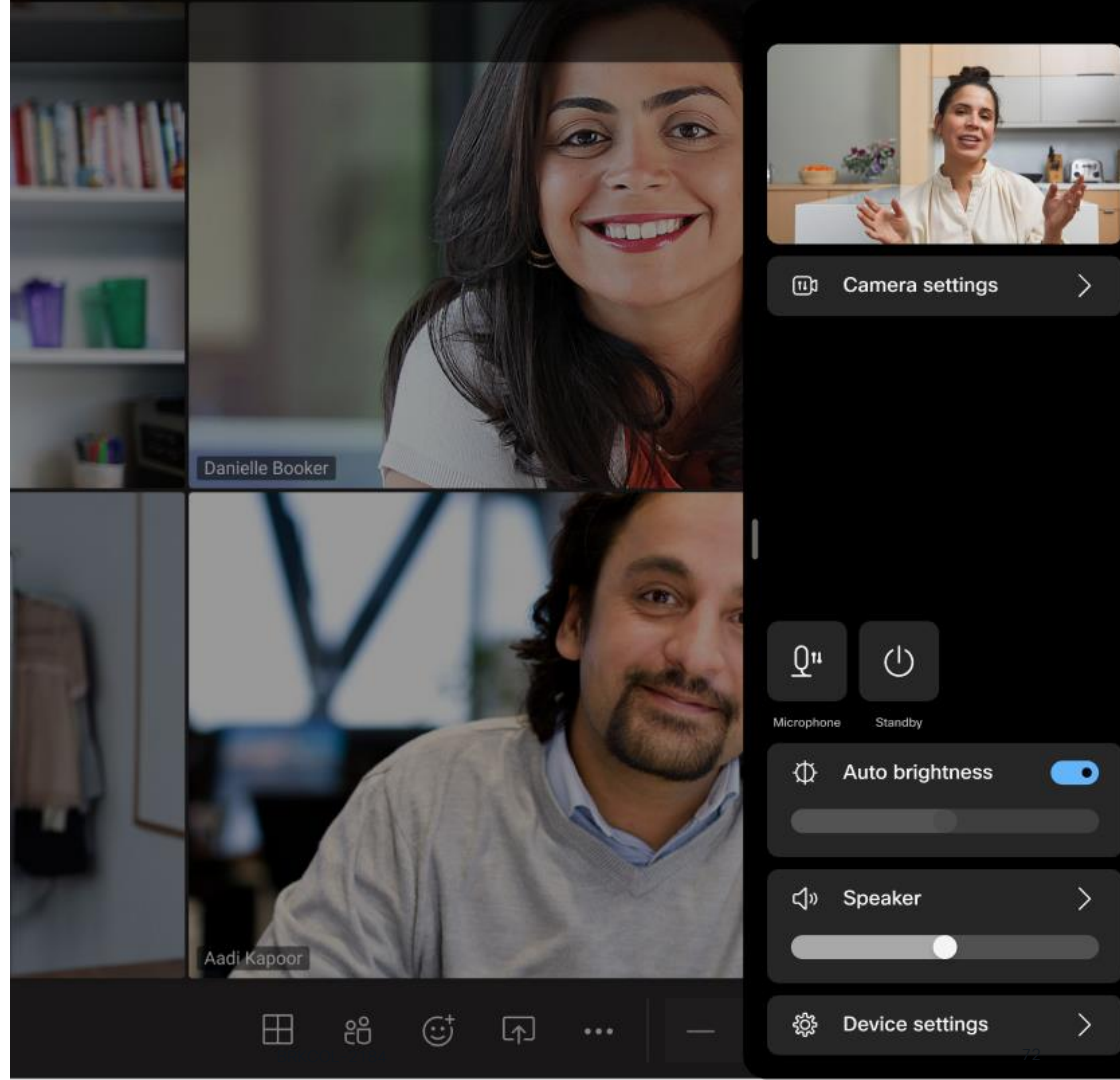
Expected
Beta Q1CY24

Available 1HCY24

Supported Features

Easily access camera and audio settings

Access all the Cisco
intelligence features **even**
when in a call

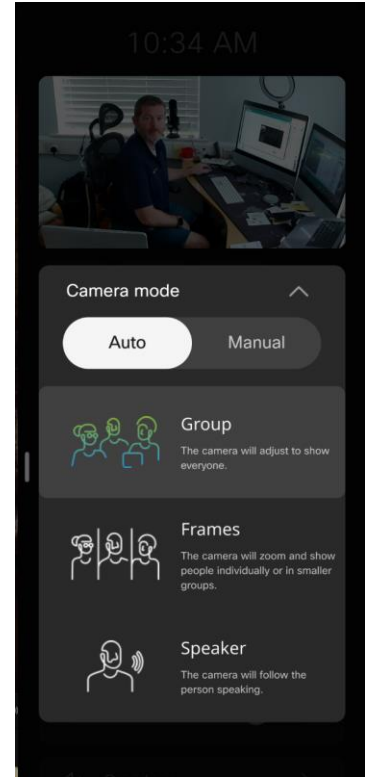
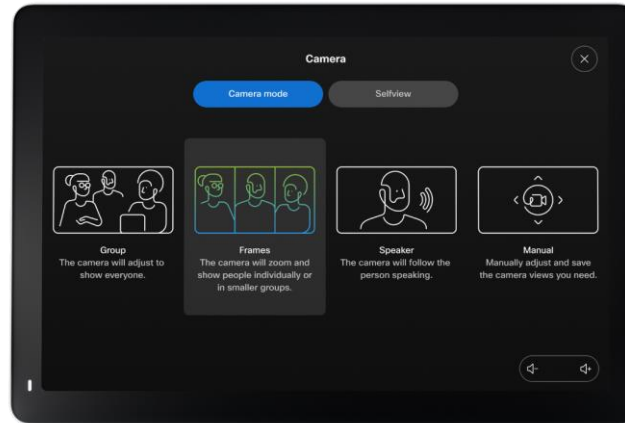


Camera intelligence

Frames, SpeakerTrack, PresenterTrack and Best Overview are supported in both Microsoft Teams meetings and Webex Meetings

Swipe menu on touch devices

Cisco Navigator



Camera intelligence

Frames is supported in all meeting types as it is a **local device feature**.

People Focus will only be available during a native Webex meeting when the device is registered to both Control Hub and Teams Admin Center.



Frames

Frames is a camera view that captures a meeting room by sending an enhanced view of the people

- Leaves out any blank space and makes people larger, allowing for a better view of facial expression and body language
- Adapts dynamically to capture people in individual frames or as groups if they are sitting close

All processing done with the device camera and will be sent to any call or meeting



For more detailed information on Frames, please visit <https://help.webex.com/en-us/article/nov4sxu/Frames>

People Focus

People Focus is an enhancement to layouts, in Webex meetings, that creates a more equal, efficient, and effective video layout

- Dynamically optimizes the layout to use all available screen space
- Even with people joining from room devices in the office, laptops on the go, and personal desk devices at home

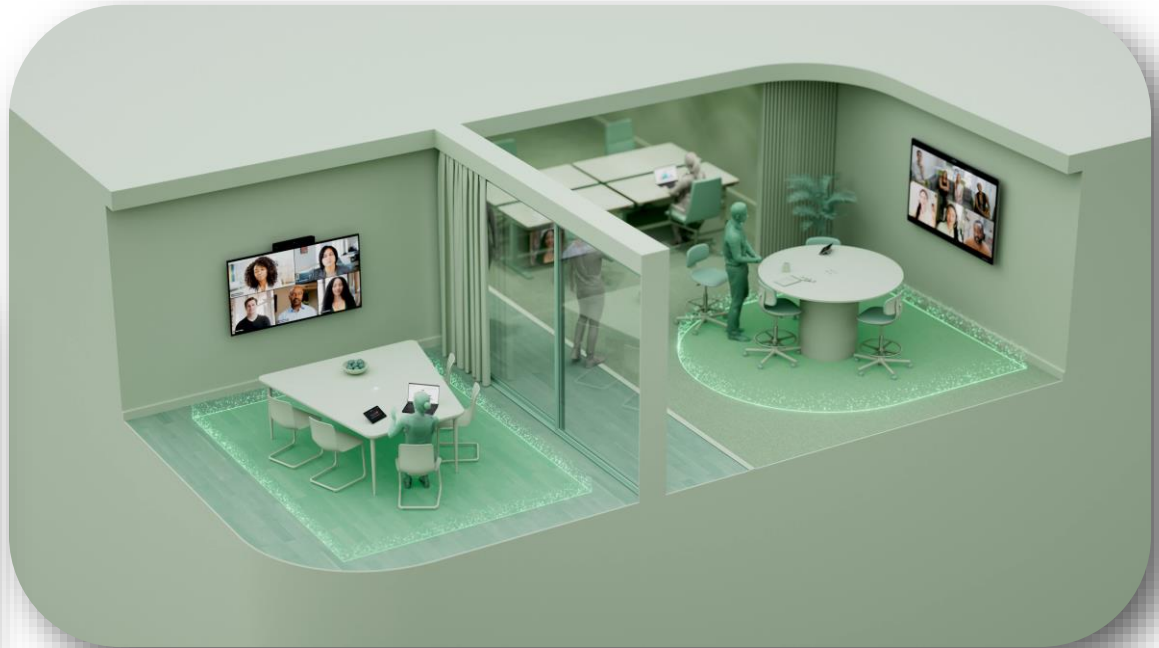
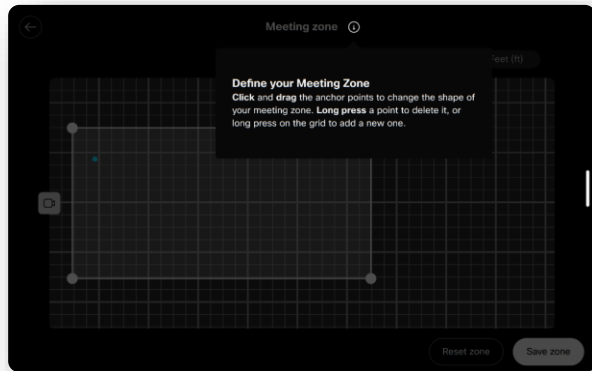
People Focus leverages camera intelligence metadata from supported remote participants to enhance the local layout. The People Focus layout is only available in a native Webex meeting.



Meeting Zones

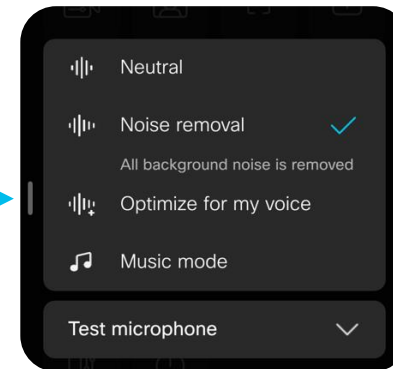
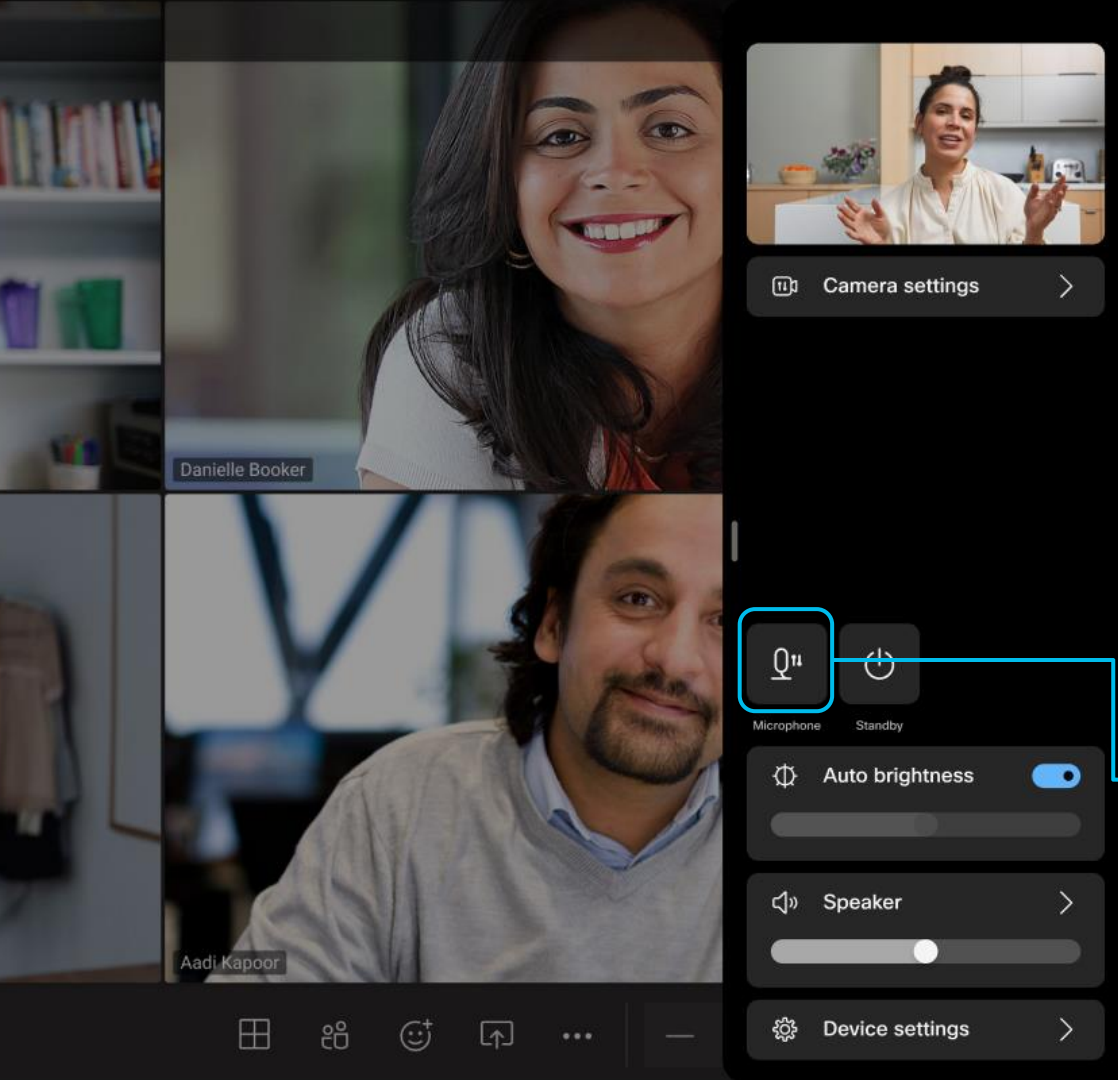
Enable efficient, distraction-free meetings in open spaces and glass-walled meeting rooms by only framing and tracking people in the meeting.

Manually set boundaries via the underlying RoomOS UI



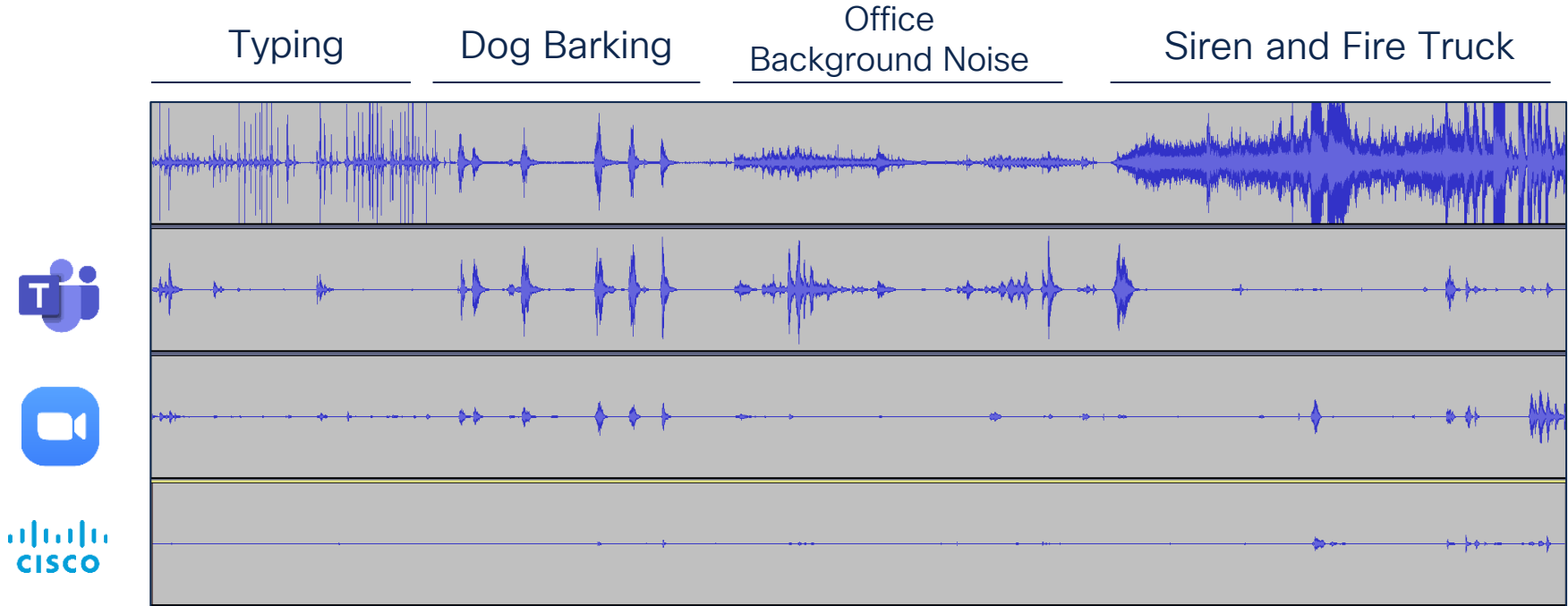
Noise removal

Noise removal settings can be accessed from the audio device settings



Doesn't everyone have Audio Intelligence?

Cisco is the best



SOURCE:PKE Consulting, LLC 2021

Content sharing

Make content sharing simple with a wide range of wired and wireless options:

- HDMI
- USB-C
- Miracast
- Microsoft Teams Sharing



Whiteboarding

Microsoft Teams whiteboard can be accessed from the device inside and outside a call

Webex whiteboard can be accessed when on a Webex meeting



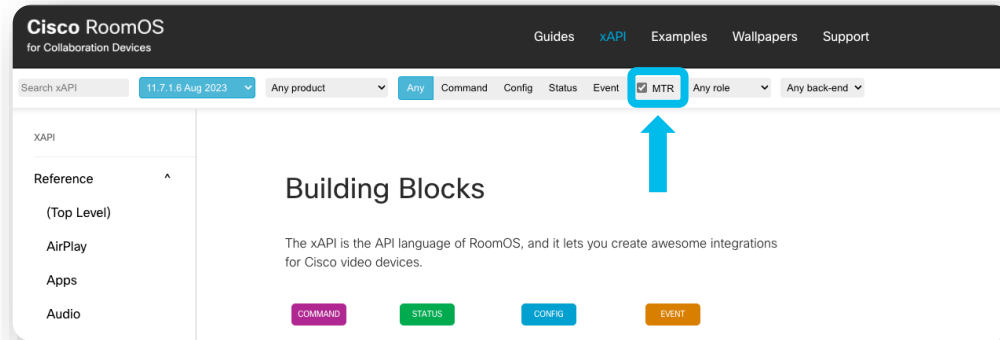
Macros

Support is there in RoomOS today

- Not every xAPI is supported when running Microsoft Teams Rooms
- Event based macros supported
- **Requires Control Hub registration**

<https://roomos.cisco.com>

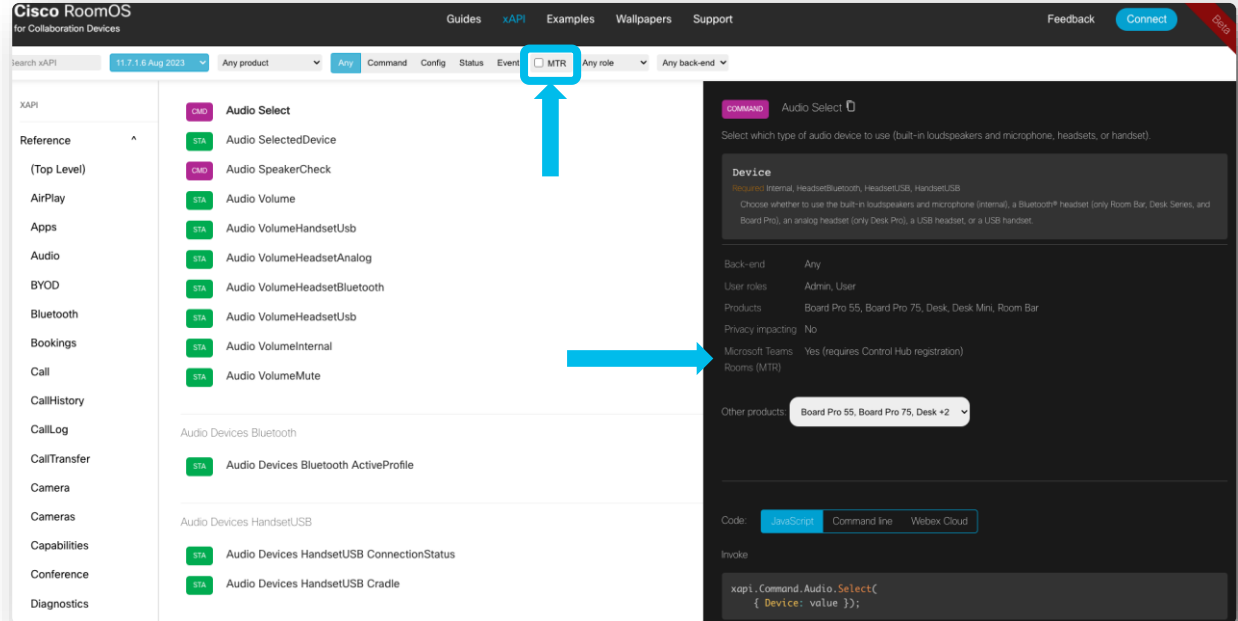
- MTR filter available to show xAPI's that are applicable when supporting Microsoft Teams Rooms



RoomOS xAPI Availability

When reviewing roomos.cisco.com API's, only those xAPI's that have Microsoft Teams Rooms (MTR): Yes status will be visible when MTR filter is applied.

Please note that you do need to be Control Hub registered to be able to use xAPIs



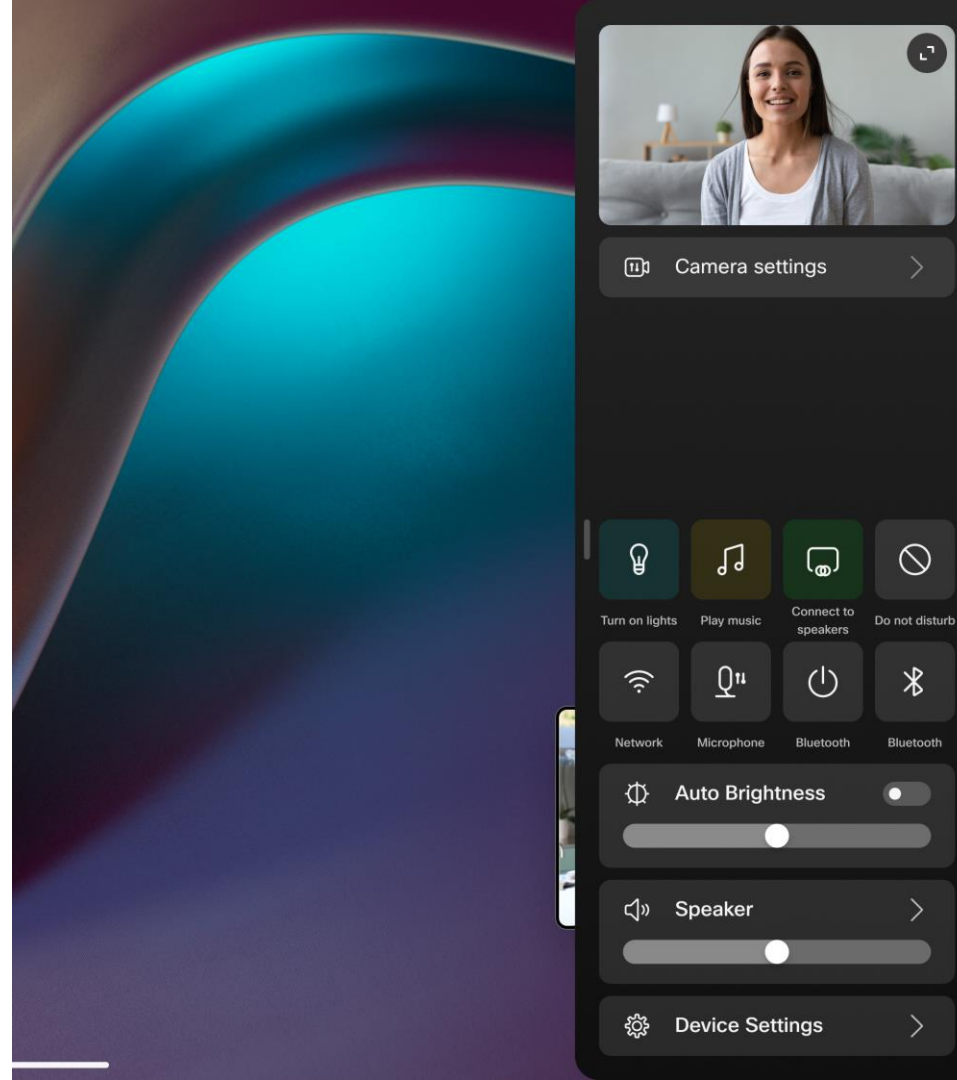
The screenshot shows the Cisco RoomOS xAPI catalog interface. The top navigation bar includes 'Guides', 'xAPI', 'Examples', 'Wallpapers', and 'Support'. A search bar at the top left shows '11:7:1 6 Aug 2023'. The main content area is divided into a left sidebar with categories like 'Reference', 'AirPlay', 'Apps', 'Audio', 'BYOD', 'Bluetooth', 'Bookings', 'Call', 'CallHistory', 'CallLog', 'CallTransfer', 'Camera', 'Cameras', 'Capabilities', 'Conference', and 'Diagnostics'. The main panel displays a list of xAPIs under the 'Audio' category, including 'Audio Select', 'Audio SelectedDevice', 'Audio SpeakerCheck', 'Audio Volume', 'Audio VolumeHandsetUsb', 'Audio VolumeHeadsetAnalog', 'Audio VolumeHeadsetBluetooth', 'Audio VolumeHeadsetUsb', 'Audio VolumeInternal', and 'Audio VolumeMute'. A blue arrow points to the 'MTR' filter checkbox in the top right corner, which is currently checked. Another blue arrow points to the 'Microsoft Teams Rooms (MTR)' status field in the right-hand details panel, which is set to 'Yes (requires Control Hub registration)'. The right-hand panel also shows other details like 'Device', 'Back-end', 'User roles', 'Products', 'Privacy impacting', and 'Other products'.

UI Extensions In-room Controls and Custom Workflows

Ability to add in custom buttons leveraging these workflows, using the Side panel on touch devices (RoomOS Global feature)

Examples:

- Controlling in-room devices like Shades or Lights
- Support button to initiate a helpdesk ticket with existing system
- Recall Web-Apps (i.e. Cisco Spaces)



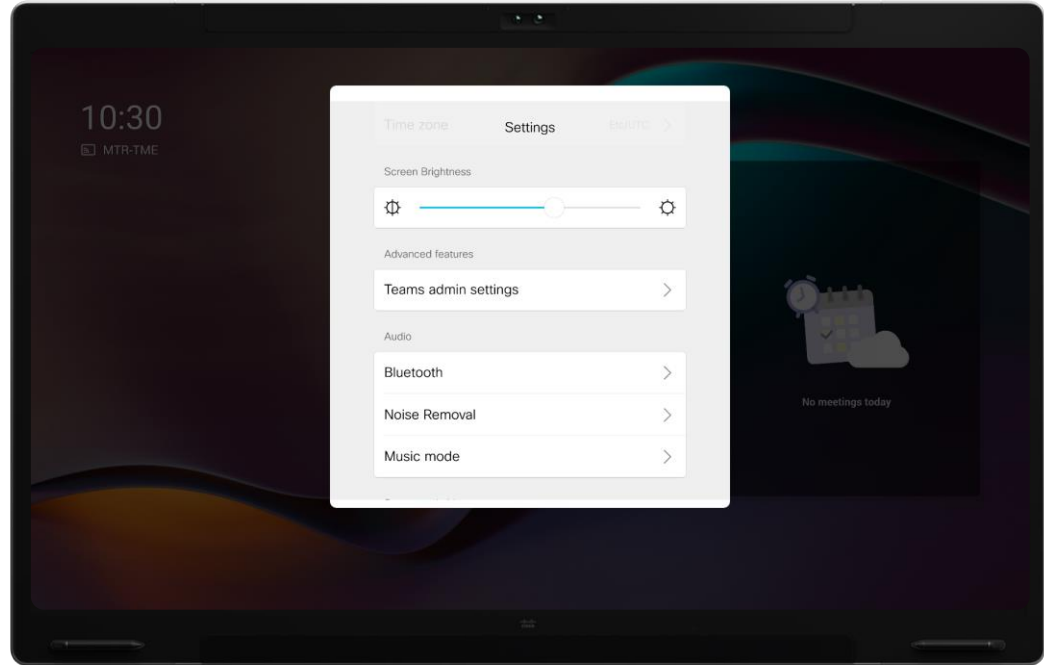
Digital Signage



- Digital Signage for Sleep/Halfwake mode is now in BETA
- Will work very much like it does today
- Will require Control Hub Registration

Device Settings

Access all the device settings, including Teams admin settings, from the landing page



Scheduled Meetings

Join Microsoft Teams and Webex Meetings from Microsoft Teams calendar view with one button to join



Seamless back-to-back meetings

No need to reconfigure, reboot, or replace your device operating system to switch from a Microsoft Teams meeting to a Webex Meeting (and vice-versa)



Fully featured Webex meetings

Including:

- Flexible layouts
- People Focus
- Breakouts
- Whiteboarding
- Webinars
- Polling
- Assistant
- Embedded apps



Benefit of Control Hub registration

Provisioning a Cisco Collaboration device to Control Hub is an optional but **highly recommended** step when deploying the Microsoft Teams experience.

There are a number of benefits that the 'dual registration' brings. These include:

- **Native Webex Meetings** join from scheduled calendar invite
- **Workspace analytics** in Control Hub – environmental and occupancy
- Synchronous **Configuration management**
- Additional **software update** options
- **Cloud API** access
- **Bulk configuration**, Template configuration

Room registration licenses are required for device registration to both
Control Hub and Teams Admin Center.

Control Hub registration: Comprehensive cloud management



Device inventory,
management,
and monitoring
in Control Hub



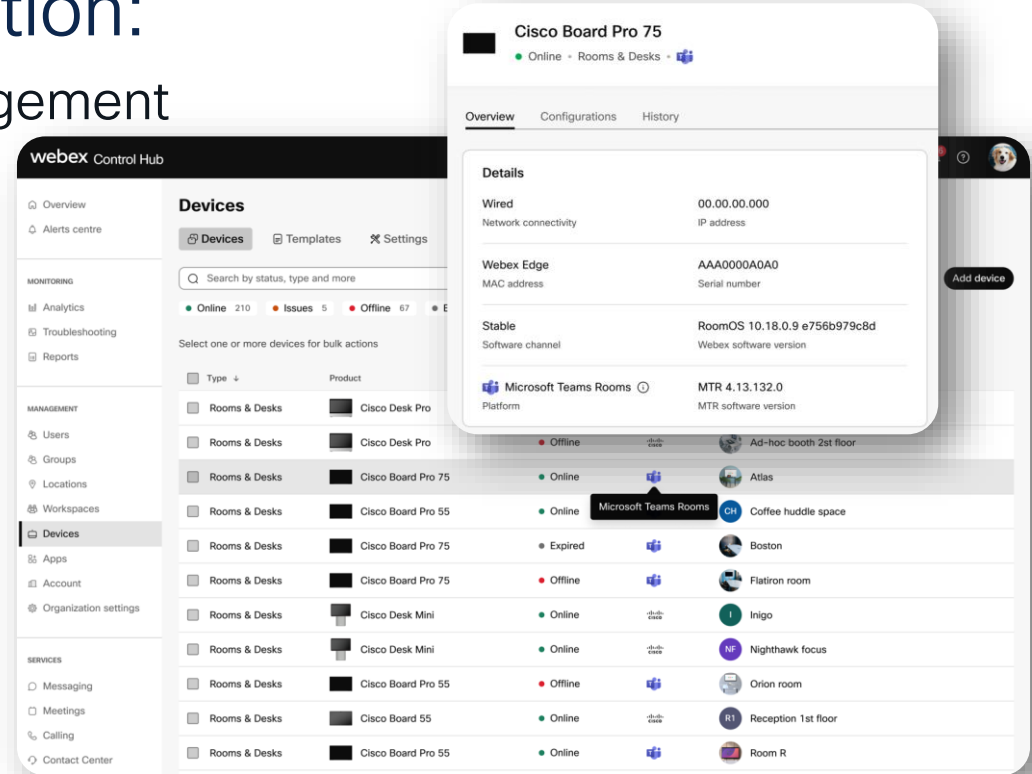
Access to the full
value of Control Hub
alongside Microsoft
Teams Admin Center



Workspace
environmental and
occupancy metrics



Macros, UI
extensions and
Cloud API access



Management Capabilities

Teams Admin Center and Control Hub

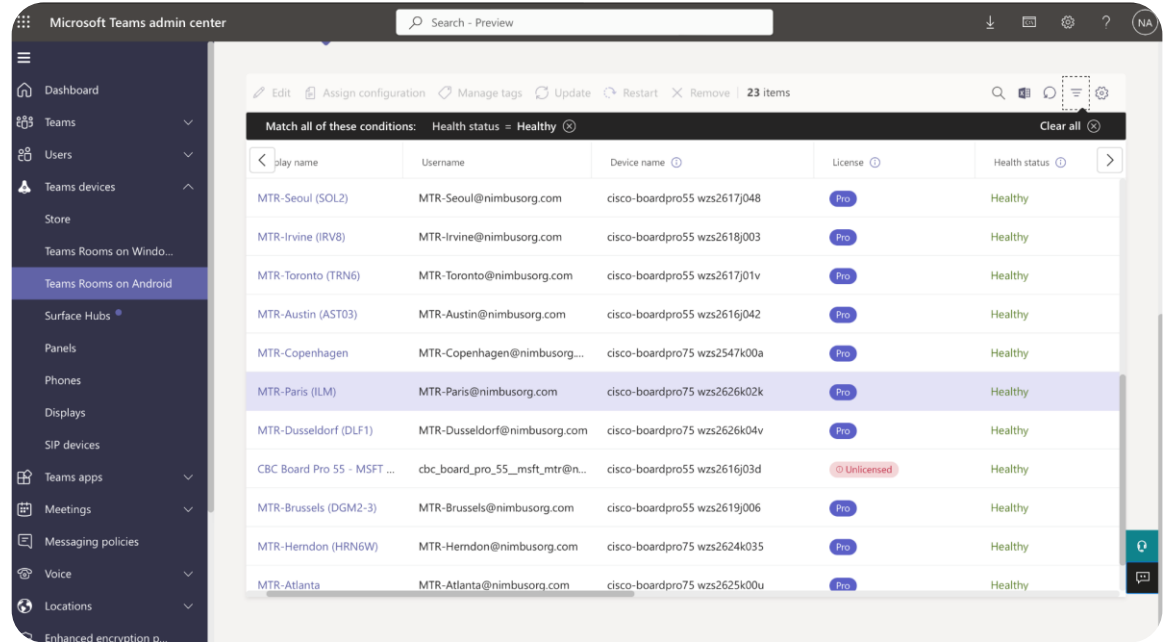
	MTR on Android (no Control Hub registration)	MTR on Android (<u>with</u> Control Hub registration)
Device Inventory	Limited	✓
Device Configuration	Limited	✓
Software Upgrade	Limited	✓
Device Alerts	✗	✓
Meeting Metrics & Analytics	Limited	Limited
Macros	✗	Partial*
UI Extensions	✗	✓
API Integrations	✗	✓
Device Metrics & Analytics	✗	✓
Room Metrics & Analytics	✗	✓
Native Webex Meetings	✗	✓
Environmental Metrics	✗	✓

* Full set of Macros supported in RoomOS only mode.

SW Updated and licenses

Microsoft Teams Admin Center management

Cisco Devices for Microsoft Teams are visible in the Microsoft Teams Admin Center, under **Teams Rooms on Android**



Licensing

Microsoft

Microsoft Teams Rooms

(Applicable to Cisco Board Pro, Desk Pro, Room Bar, Room Kit Pro and Room Kit EQ)

- MTR Basic
- MTR Pro

Microsoft Teams Displays

Applicable to Cisco Desk Pro

- **Microsoft Office 365 E1+**

For the user the Desk Pro is configured for

- **Microsoft Teams Shared Device**

For Desk Pro on Hot Desk mode

Microsoft Teams Panels

Applicable to Cisco Room Navigator (stand alone)

- **Microsoft Teams Shared Device**

Licensing

Microsoft Teams Room Basic vs Pro

For your
reference

MTR Basic

Provides core meeting experience

Up to 25 Basic systems in the organization

Includes:

- Scheduling
- Joining meetings
- Content sharing
- Collaborative whiteboarding

MTR Pro

If more than 25 devices are needed, Pro licenses are needed for the additional systems

Includes:

- All Microsoft Teams Room Basic features
- Support for dual screen systems
- Support for joining meetings across Teams clouds (i.e. worldwide/GCC+)
- Large gallery (up to 50 videos)
- Split gallery across two screens

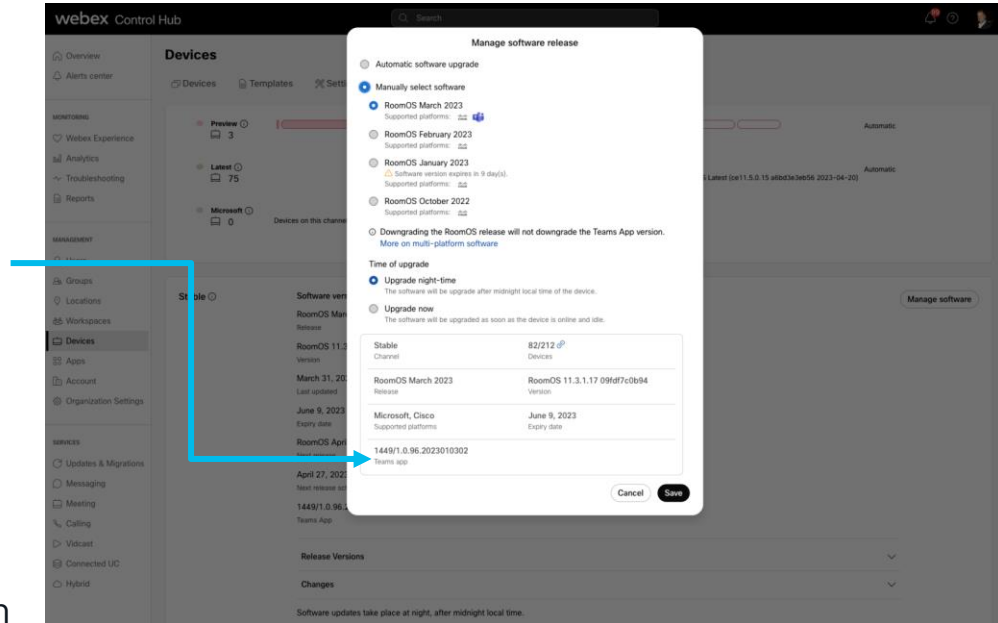
Software Updates for MTR

RoomOS updates will also contain updates to the Android Container and the current MS Teams applications.

When you look at the RoomOS update it will also show you what version of the MS Teams App is bundled with that software version.

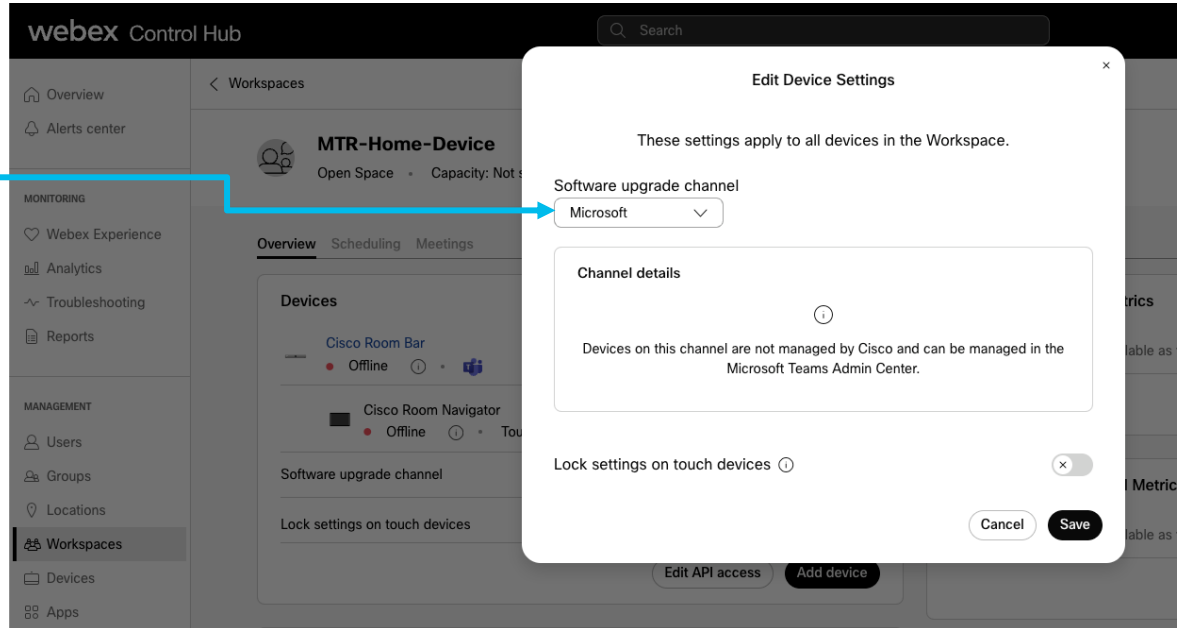
Stable will be the most recent GA build available.

You will still have access to the various software channels... Stable, Preview, Beta (if enrolled), however there will also be a **new Microsoft Software Channel**. This Channel will be selected if you want to be registered to Control Hub but obtain all your updates (RoomOS, Teams) from Microsoft.



Software Updates

- Teams Admin Center can provide Updates for RoomOS and MS Teams App
- Go to Webex Control Hub and choose the Microsoft Software Channel to receive these updates from them



Summary

Full RoomOS Vs Teams experience



For your
reference

	Full RoomOS experience	Microsoft Teams experience (with Control Hub registration)
Native Webex Meetings and Webinars	✓	✓
Native Microsoft Teams experience	-	✓
MS Teams Meetings with VIMT (CVI) or WebRTC/DGJ	✓	-
Google Meet interop (WebRTC)	✓	✗
Zoom Meetings interop	✓	✓ Direct Guest Join*
Standards-based video interop (SIP/H.323 dialing)	✓	✗
Deployment options	On-prem/Cloud/Edge for Devices	Cloud only
Voice assistant	Webex Assistant	Cortana**
Enterprise calling	Webex Calling / UCM	Teams Calling
Meeting management and monitoring	Control Hub	Teams Admin Center & Control Hub
Whiteboarding	Webex Whiteboard	Microsoft Whiteboard and Webex Whiteboard***
Run 3rd party web-apps natively	✓	Only in Webex meetings
Webex Hot desking	✓	✗
Microsoft Display Hot Desking	✗	✓
USB Passthrough	✓	✓
Room booking	Hybrid calendar + Navigator	MS Teams calendar + Navigator
Digital signage	✓	✓
Custom controls with Macros	✓	✓
User Interface extensions	✓	✓
Customized branding (logos, wallpaper)	✓	✗
Workplace analytics in Control Hub with APIs	✓	✓

* Not available on Teams Display | ** Available on Teams Display only | *** Webex Whiteboard in Webex Meeting

In-meeting features: VIMT Vs MTR		VIMT	Microsoft Teams Rooms
More than 9 participants on screen		✗*	✓
Flexible layouts		✓	✗
Enhanced layouts (i.e. Front Row; Large Gallery View; etc)		✗*	✓
Dual screen support		✓	✓
Whiteboarding		Unidirectional	✓
Chat bubbles		✗	✓
Raise hand, lower all hands		✗	✓
Spotlight multiple participants		✗*	✓
Live reactions		✗	✓
Live closed captions		✗	✓
Companion mode		Webex (see appendix 1)	✓
Meeting recording and meeting transcription		✗	✓
Wireless sharing	MS Teams Cast	✗	✓
	Miracast	✓	✓
	Apple AirPlay	✓	✗
	Webex App	✓	✗
Remote pan tilt zoom (PTZ) control		✗	✓
Local device controls		✓	✓
Meeting participants roster		✓	✓
Mute Sync		✓	✓
Content sharing		✓	✓
Powerpoint Live		✗	✓
Application sharing		✗	✓
Meeting management and monitoring		Webex Control Hub	Microsoft Teams Admin Center
Lobby Bypass		✓	✓

Summary

RoomOS 11 is the platform of choice for:

- Cisco Desk Series
- Cisco Board Series
- Cisco Room Series

Selected devices within the above series can offer two different experiences:

- RoomOS experience:
ideal for Companies that need multiplatform meeting capabilities
(i.e. Webex Meetings; Microsoft Teams; Zoom; Gmeet; standard SIP)
- Microsoft Teams experience:
ideal for Companies mainly using Microsoft Teams for meetings

Summary

Cisco Devices for Microsoft Teams have the option to be **concurrently registered to Webex Control Hub** in order to deliver the best experience, such as:

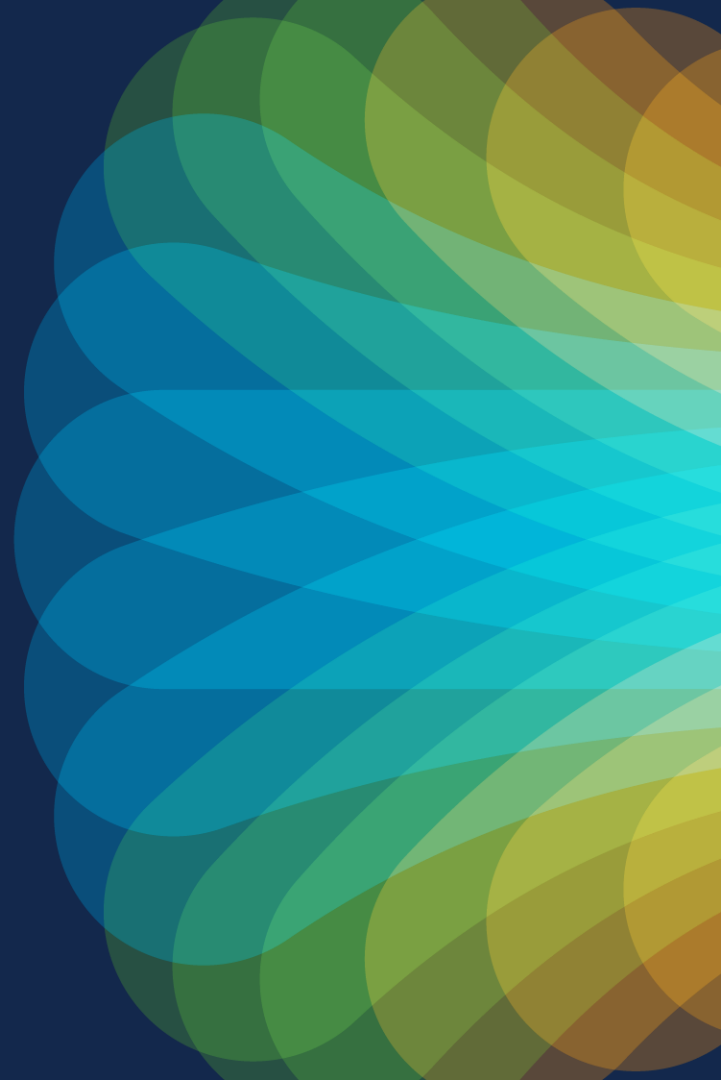
- Webex Meetings native support
- Cloud APIs
- Macros
- UI extensions (coming soon)
- Analytics and much more



The bridge to possible

Thank you

CISCO *Live!*



The background of the slide is a vibrant, abstract graphic. It features a large, stylized cloud shape on the left side, composed of overlapping, semi-transparent layers of orange, red, and yellow. To the right of the cloud, a bright, multi-colored sunburst or starburst pattern radiates from a central point, with rays extending towards the right edge of the frame. The colors in the sunburst transition through a spectrum from blue and purple on the left to yellow and orange on the right. The overall effect is energetic and colorful.

cisco *Live!*

Let's go