



You make **possible**



Cisco Interoperability with Microsoft

Part 2 - Video Interoperability

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BRKCOL-2611

CISCO *Live!*

Barcelona | January 27-31, 2020



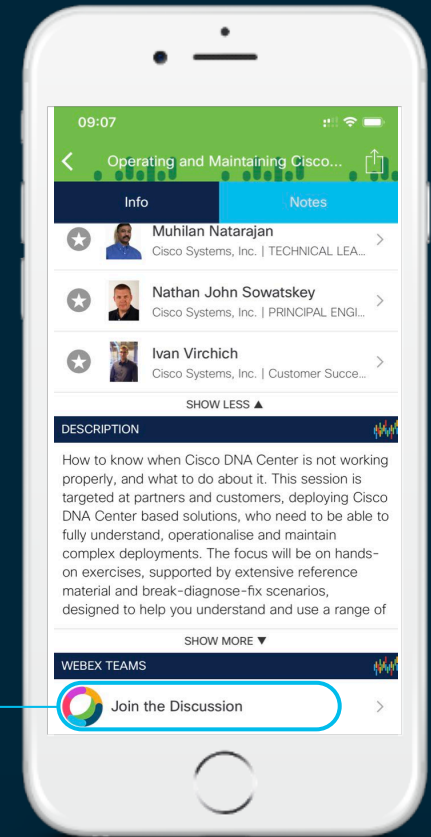
Cisco Webex Teams

Questions?

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

How

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



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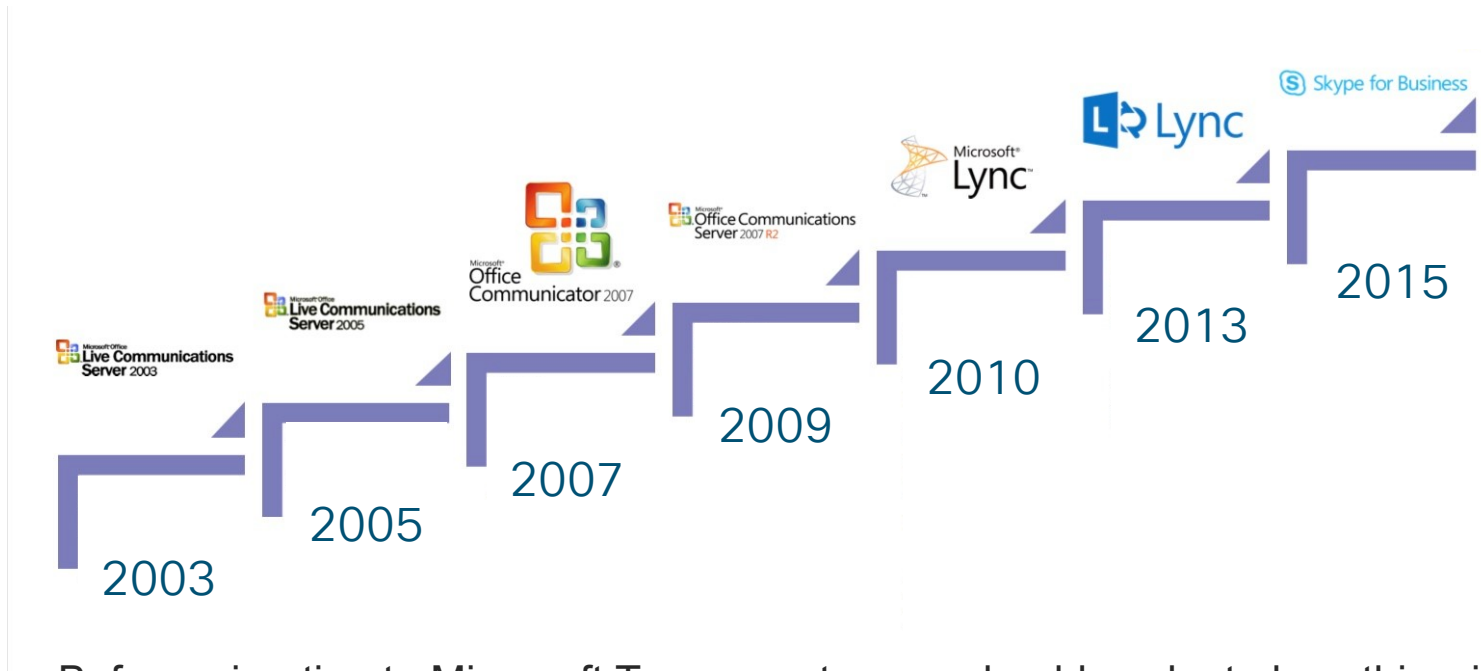
Agenda

- Introduction – Skype for Business vs Microsoft Teams
- Skype for Business
 - Intra-company Scenario
 - Business to Business Federation
 - Webex Meetings Interoperability
- Microsoft Teams
 - Microsoft Teams meetings – Interoperability using CVI Gateway
 - Microsoft Teams meetings – Interoperability using WebRtc
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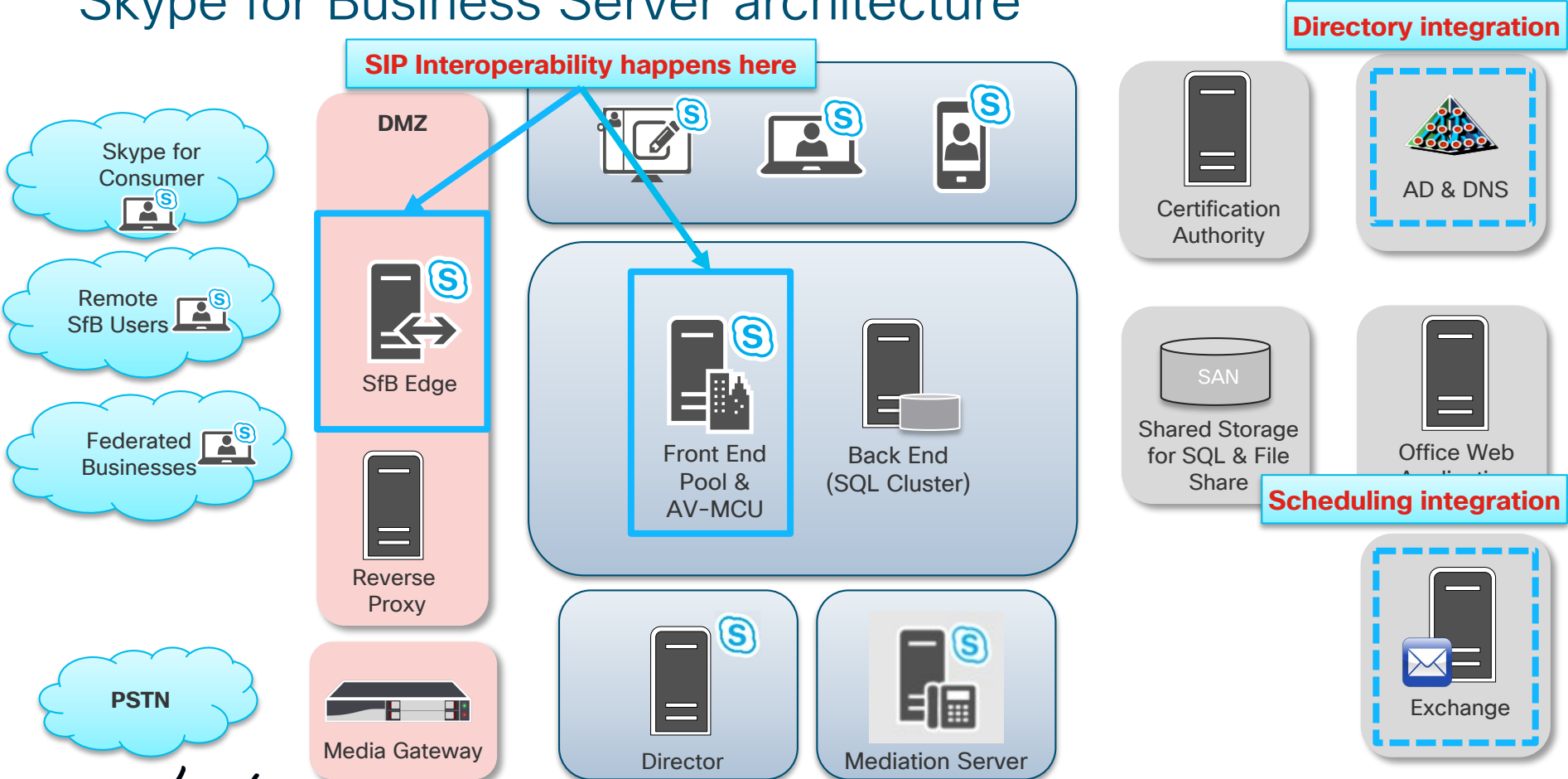
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A long history of interoperability effort...



Before migrating to Microsoft Teams customers should evaluate how this will affect the interoperable solution already in place with Skype for Business

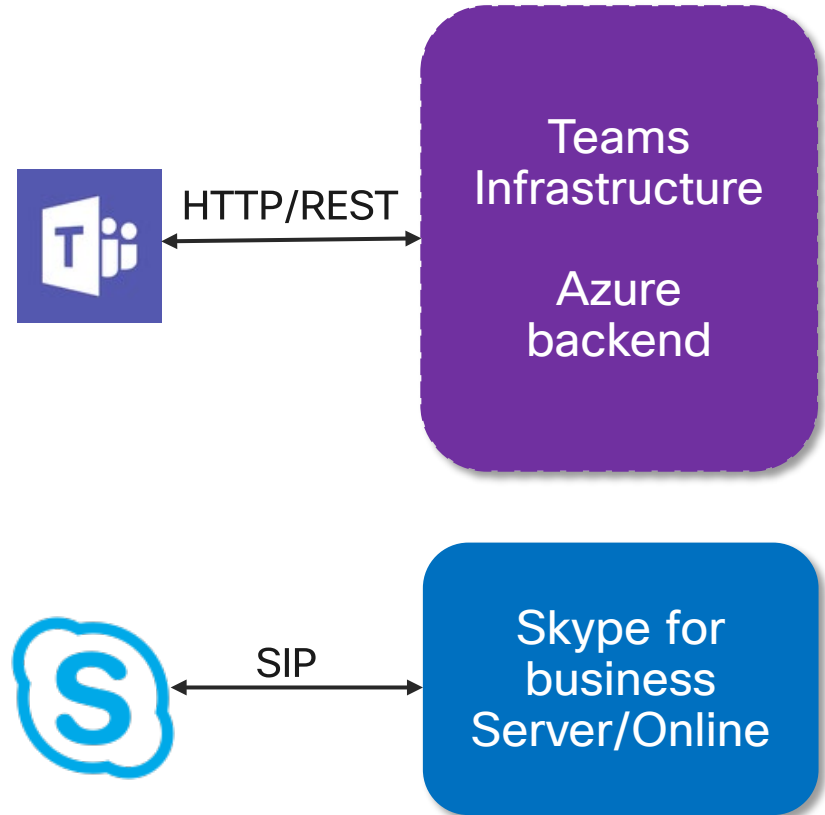
Skype for Business Server architecture



Microsoft Teams architectural highlights

Cloud and REST based

- Teams uses REST based protocol
- Designed, developed and deployed for the Azure cloud
- Micro services to scale elastically
- Frequently iterated and services updated at global scale
- Same client infrastructure across desktop, mobile, web
- Managed ecosystem for collaboration and communication
- Native Devices (Teams Rooms, IP Phones) run Teams clients to support capabilities



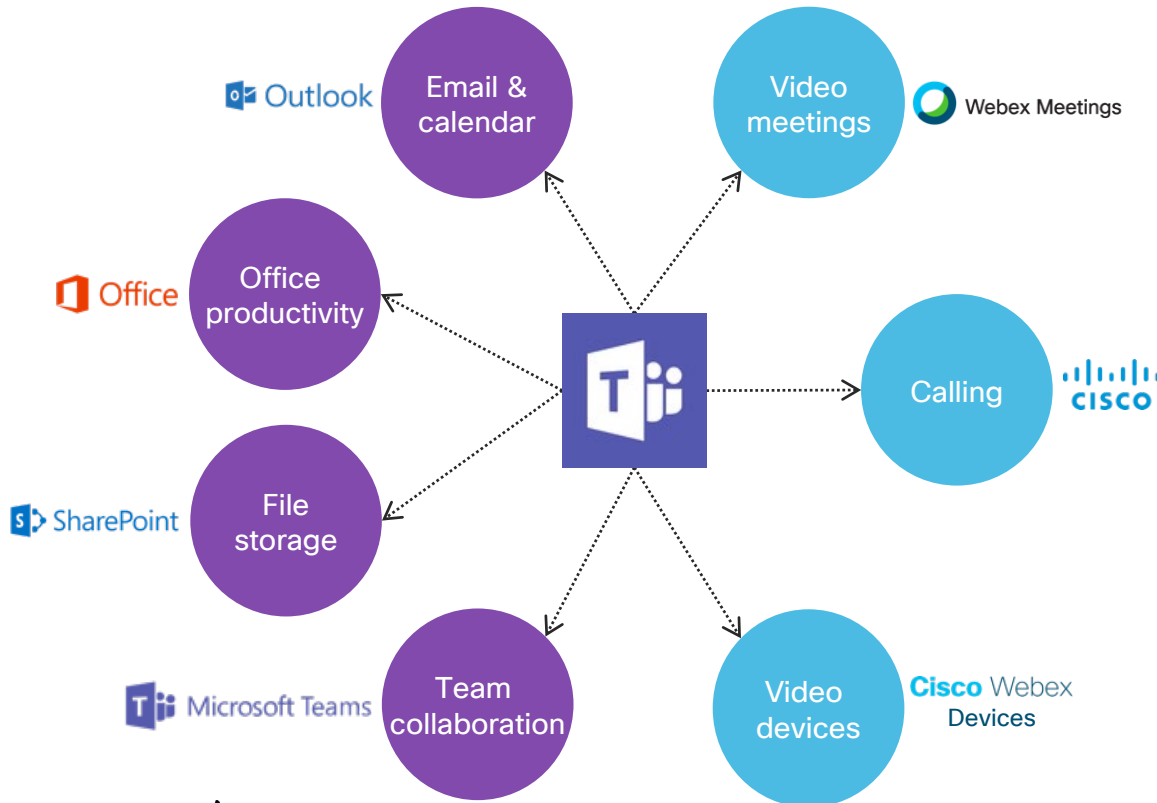
Microsoft Teams as the new “collaboration hub”

Microsoft strategy/positioning:

“Microsoft Teams creates a hub for teamwork where people connect, communicate, and collaborate from within a single interface”



Client choice vs Workload choice



Microsoft Teams is an extensible client by definition (Hub concept)

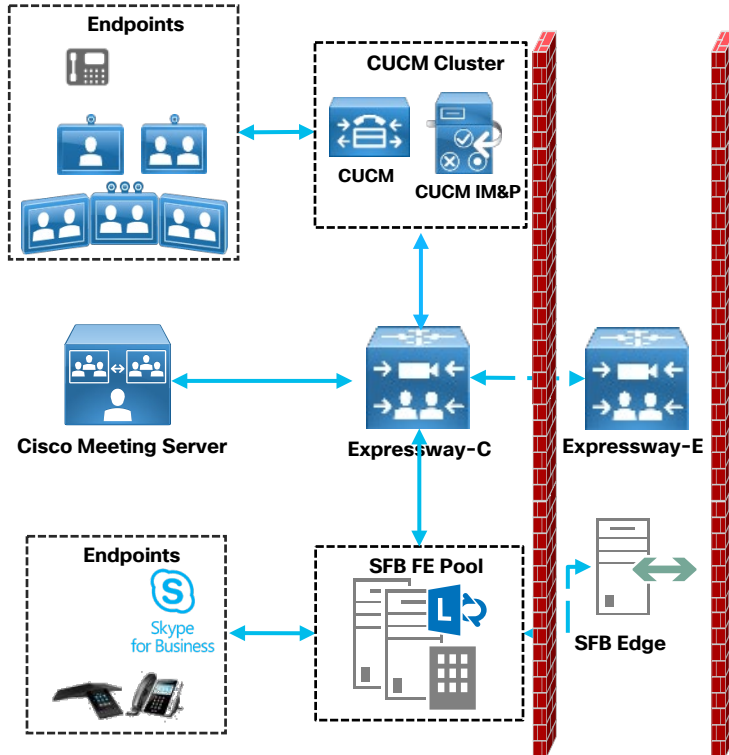
Using Microsoft Teams as client doesn't prevent the possibility to use Cisco for multiple **workloads**:

- Meeting (**Webex Meetings**)
- Calling (**on-prem/cloud**)
- Video endpoint (**Webex Devices**)

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Conferencing platforms coexistence



CMS is the conference platform for video devices

Skype for Business is the conference platform for clients

Video Interop is provided by **Cisco Meeting Server**

CISCO Live!

Skype for Business Interoperability

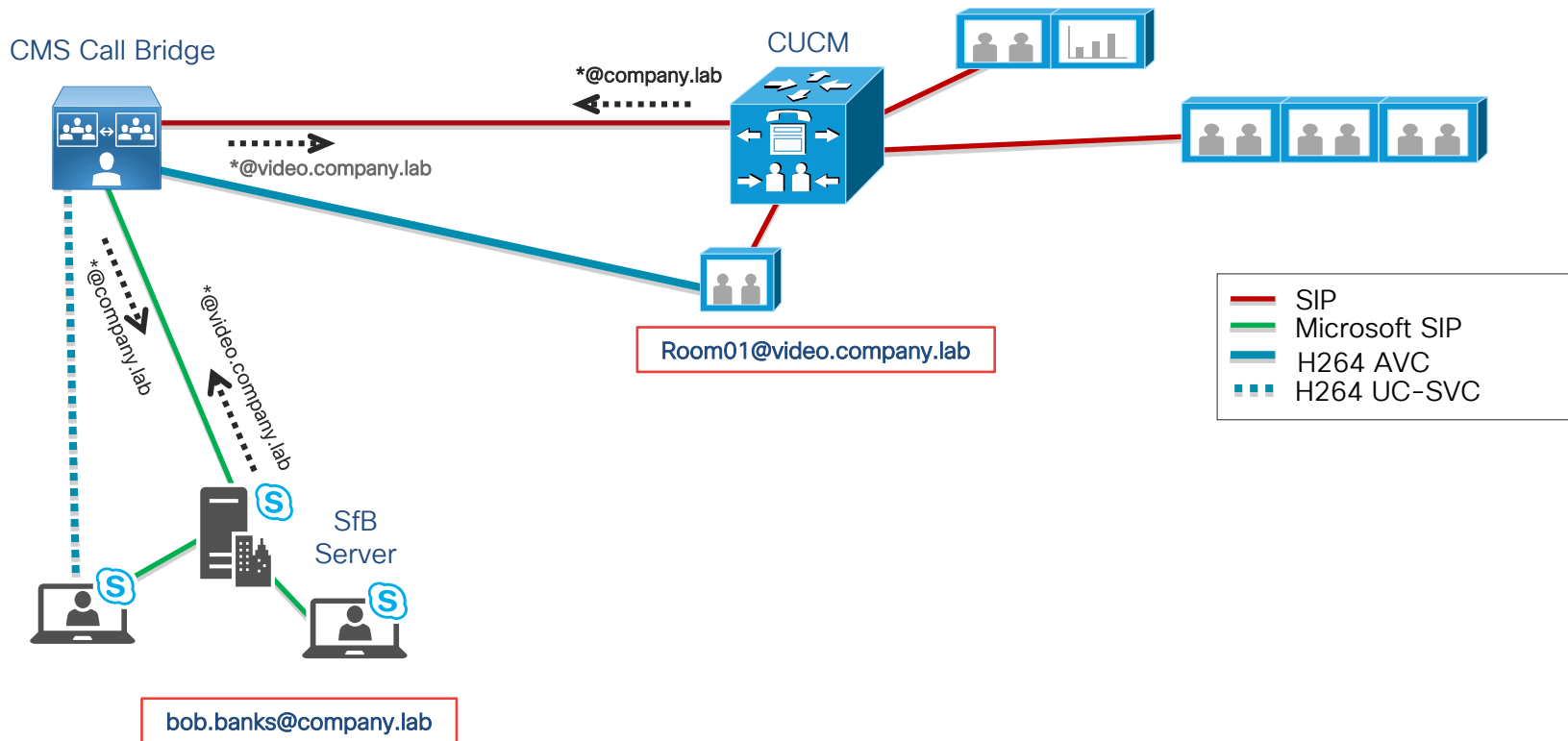
Integration Types

1. **Gateway:** Allows Point to Point calling between Room Endpoints and Skype for Business users
2. **Spaces:** Room Endpoints and Skype for Business users **all** connect on Cisco Meeting Server Virtual Meeting Rooms
3. **Dual Homed Conferencing:** Room Endpoints Meet on Cisco Meeting Server with an connection to Skype for Business meetings as full-featured participants

Interoperability using Cisco Meeting Server

Integration Type 1 - Gateway

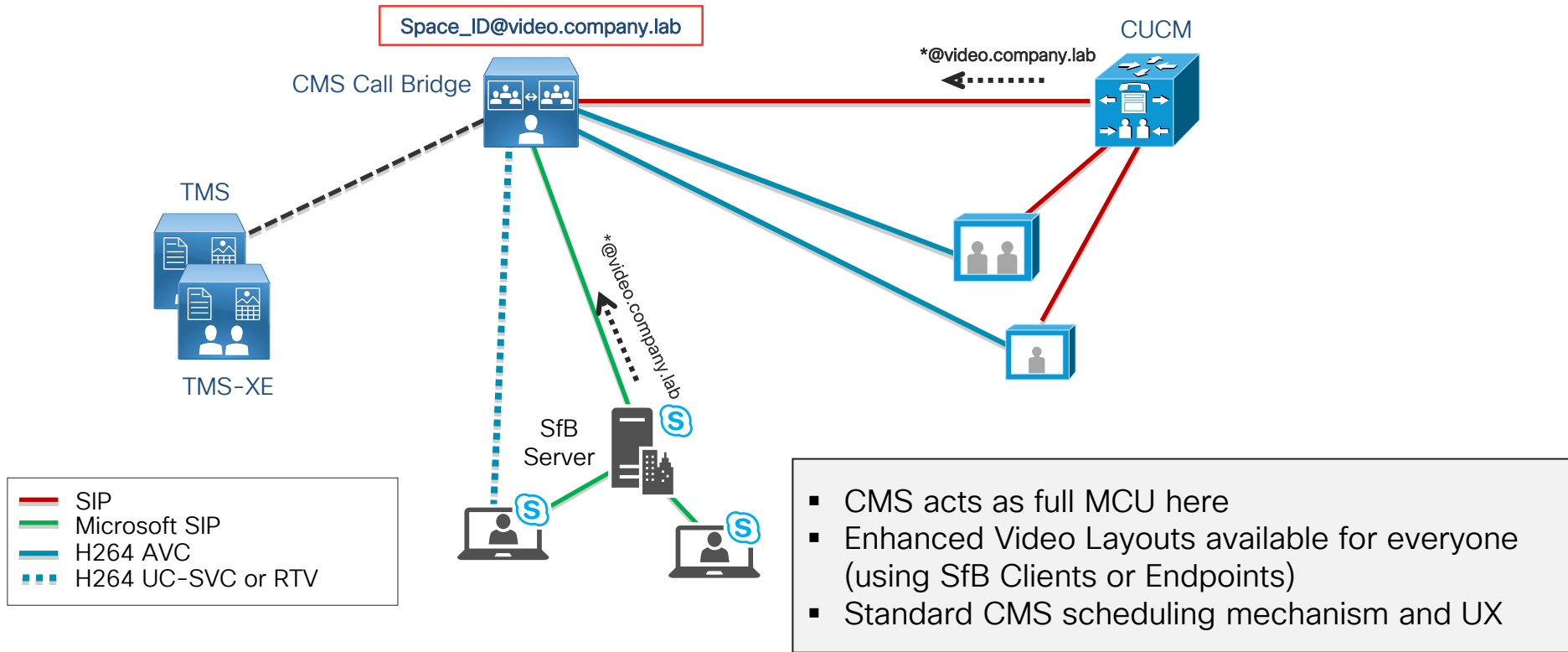
Call Routing – How it works for P2P calls



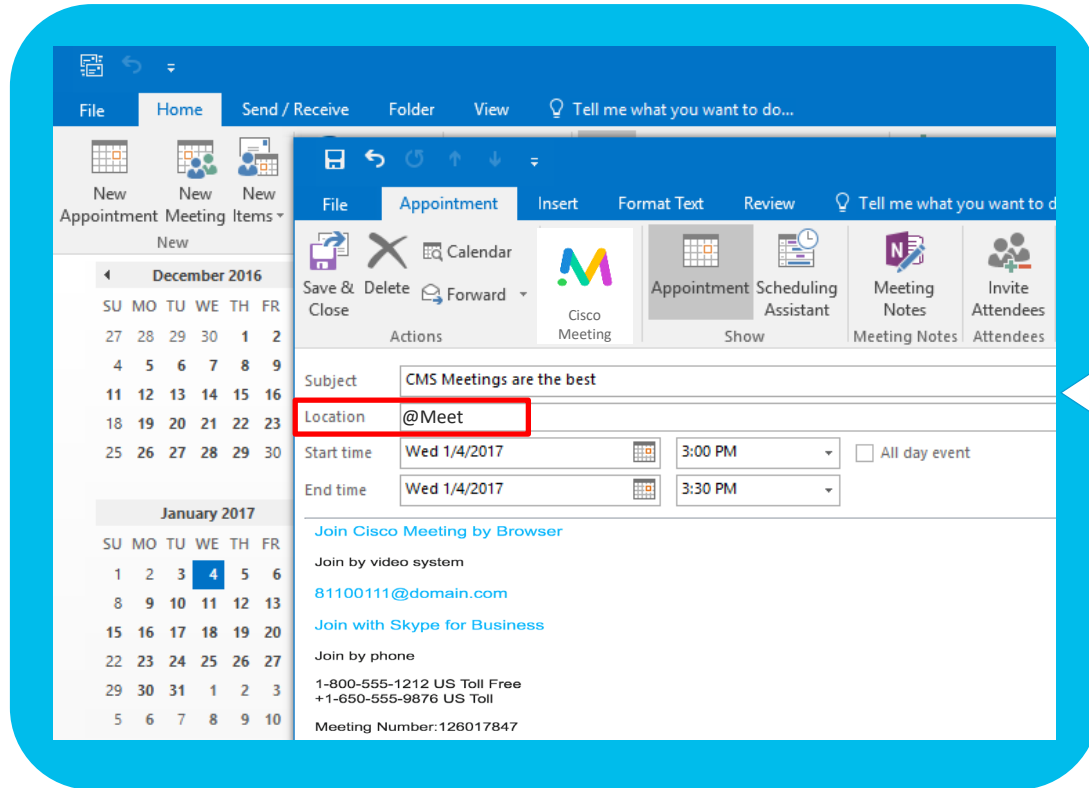
Interoperability using Cisco Meeting Server

Integration Type 2 - Spaces

Call Routing – How it works for calls to CMS Spaces



New TMS Scheduling Experience



Join info updated in original calendar invite

Any calendar client

- OWA & Mobile etc
- Optional Windows Outlook Add-in

Popular join options

- OBTP on-prem and cloud registered
- Click to Join (WebRTC, Sfb, Jabber)
- Dial In

Enables future migration to cloud

OBTP for Video devices

User Experience – in Meeting (Video Layout)



Cisco Endpoint Experience



S4B Clients Experience

Room users enjoy the benefits of Cisco's large screens to see everyone in the meeting and select among multiple layouts

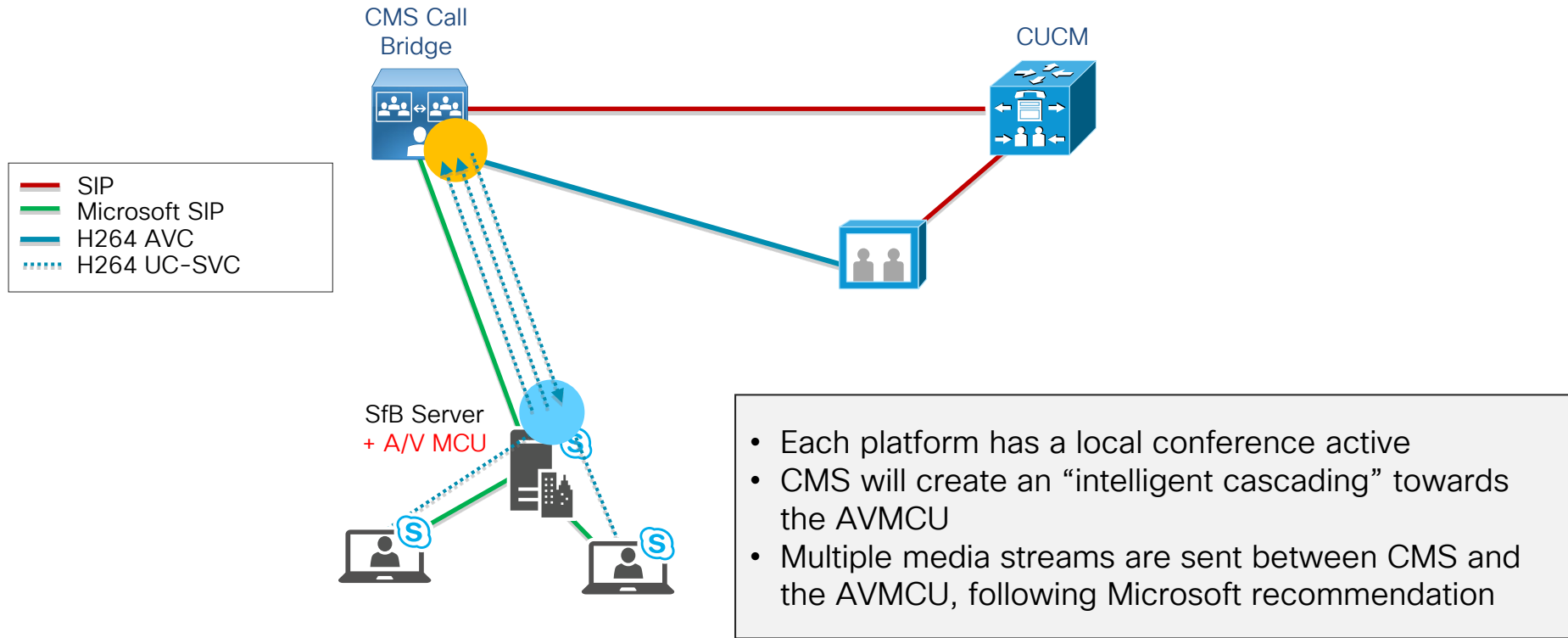
S4B users can join the meeting and use the same extended set of layouts, going beyond the AV/MCU limitations (i.e. up to 5 video streams max)

Possibility to pre-configure the initial Layout and/or change it on the fly using DTMF/Active-Control

Interoperability using Cisco Meeting Server

Integration Type 3 - Dual
Homed Conferencing

Dual Homed Conferencing – what is it about?



Conferencing platforms coexistence

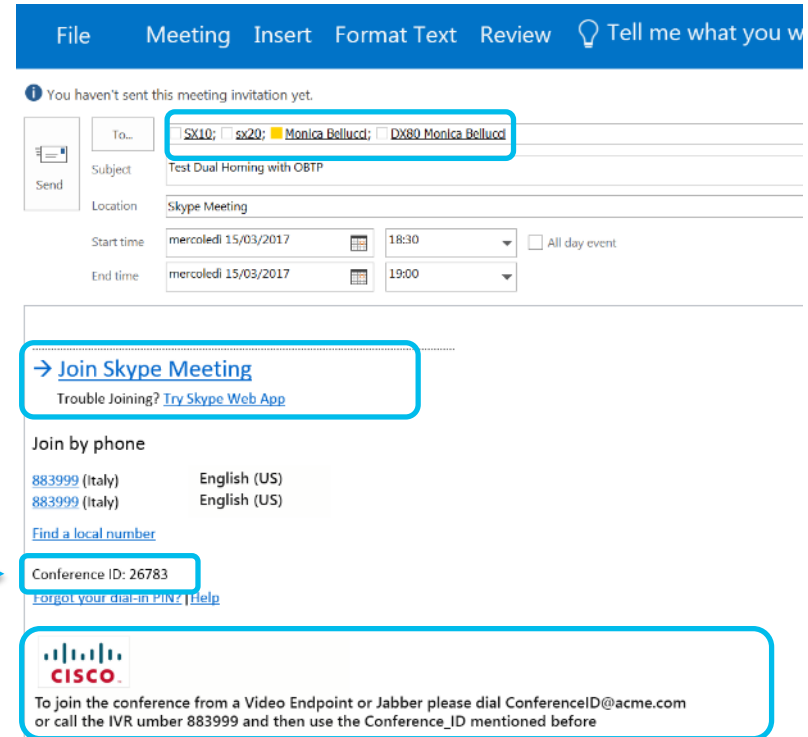
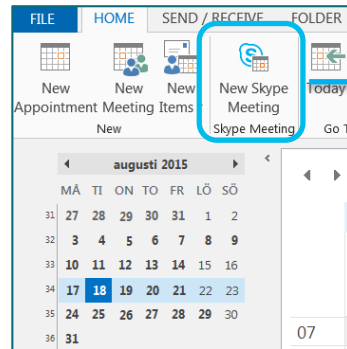
Scheduling SfB interoperable meetings (Dual Homed Conf)

Users schedule meetings using the SfB Outlook plug-in

Skype for Business clients have a click-to-join link

Meetings can be joined via:

- OBTP from Cisco video devices
- IVR + Conference ID from any Audio or Video device
- Dialing `confID@videodomain`



File Meeting Insert Format Text Review Tell me what you w

! You haven't sent this meeting invitation yet.

To... SX10; sx20; Monica Bellucci; Dx80 Monica Bellucci

Subject Test Dual Homing with OBTP

Send Location Skype Meeting

Start time mercoledì 15/03/2017 18:30 All day event

End time mercoledì 15/03/2017 19:00


→ [Join Skype Meeting](#)
Trouble Joining? [Try Skype Web App](#)

Join by phone

883999 (Italy) English (US)
883999 (Italy) English (US)

[Find a local number](#)

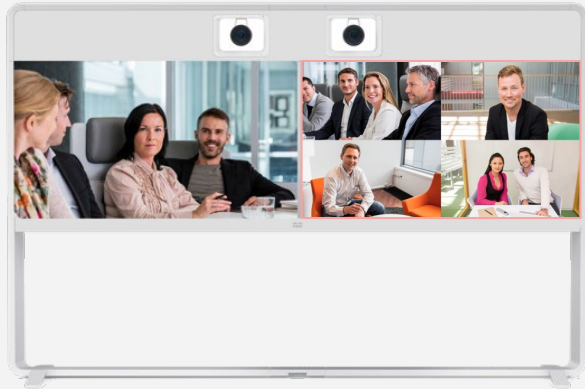
Conference ID: 26783
[Forgot your dial-in PIN? | Help](#)

 CISCO

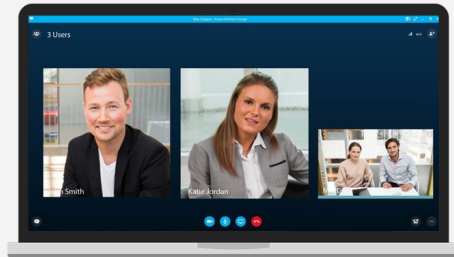
To join the conference from a Video Endpoint or Jabber please dial ConferenceID@acme.com or call the IVR number 883999 and then use the Conference_ID mentioned before

CISCO Live!

In-Meeting Experience – Video Layout



Cisco Endpoint Experience



S4B Clients Experience

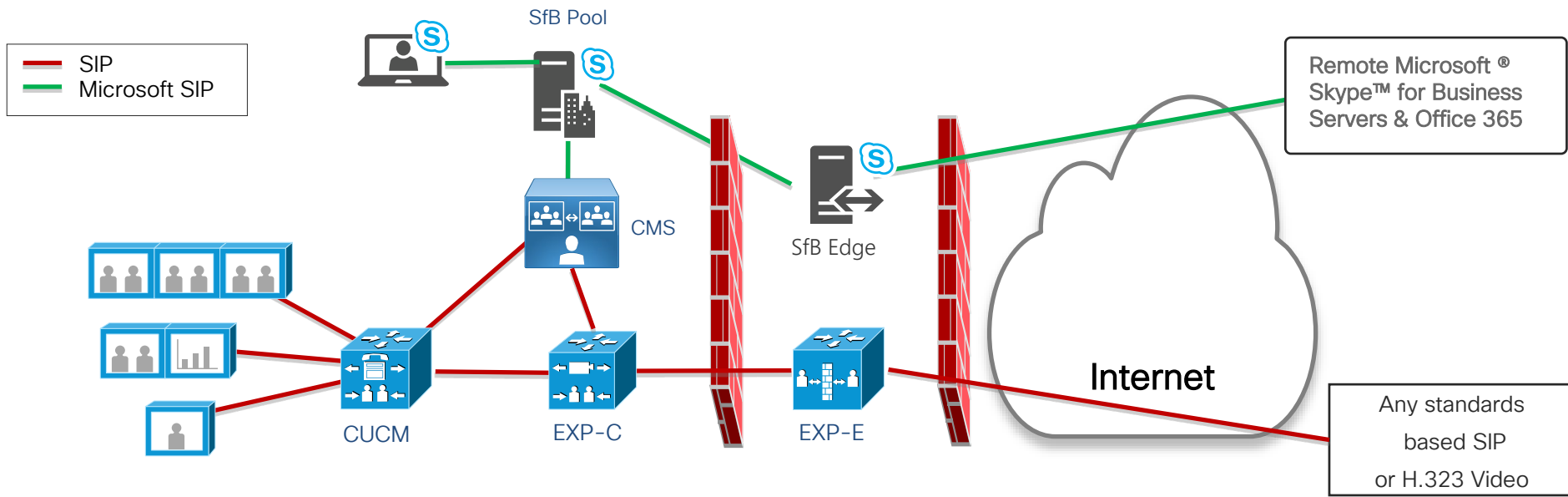
CMS “Dual Home” enables

- Room users to enjoy the benefits of Cisco’s large screens to see everyone in the meeting and select among multiple layouts, while enabling integration with S4B clients
- S4B users can still join a meeting and keep their native clients experience (**Gallery View**)

Agenda

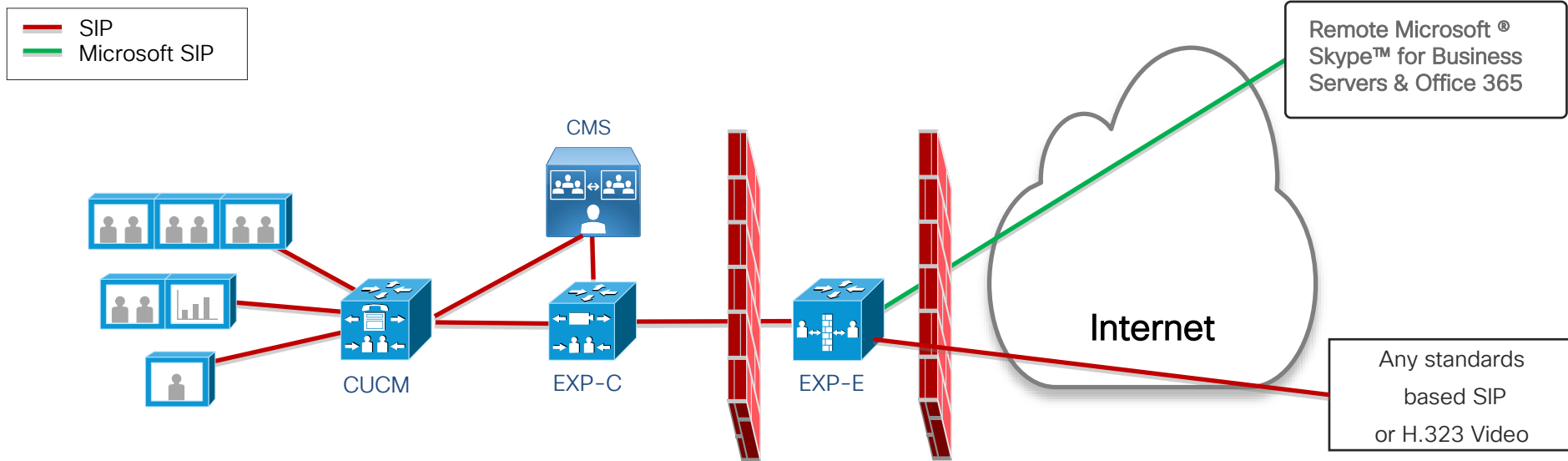
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B2B Federation when On-Premise SfB is available



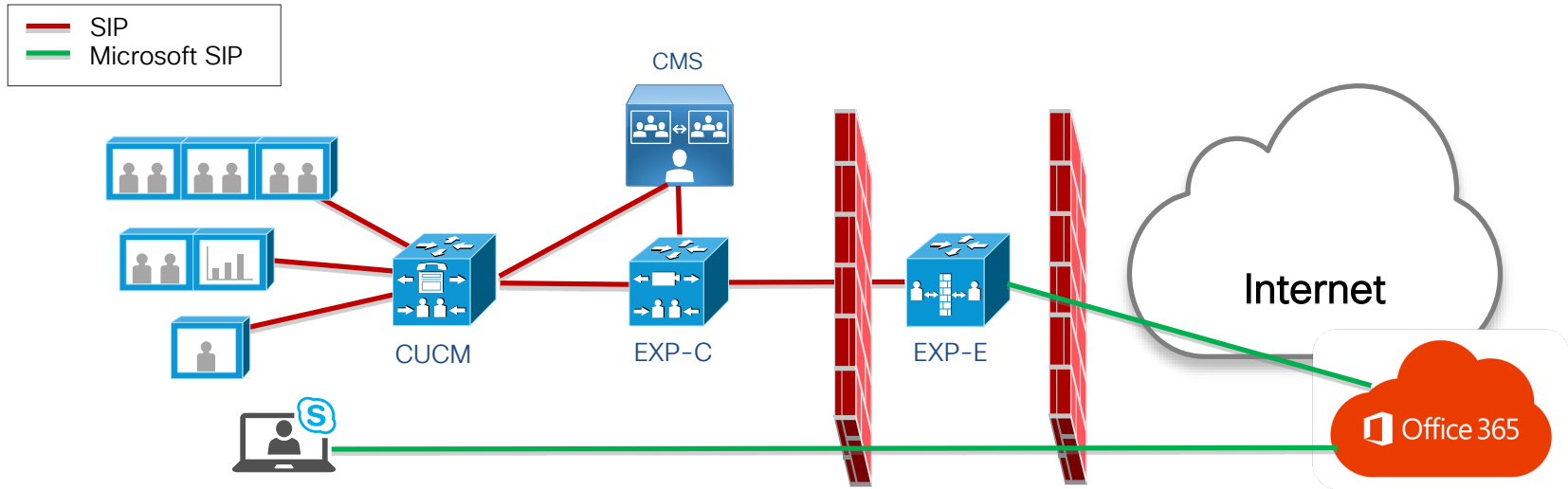
- **Local SfB Edge** is used as B2B Federation Gateway with Microsoft based Peers
- **Expr-C/Exp-E** pair is used as B2B Federation Gateway with Standard based SIP/H323 Peers
- **CMS is needed** for A/V Transcoding, also for P2P calls

B2B Federation when On-Premise SfB is not available



- **Expressway** provides B2B Federation with Microsoft, when an **On-Premise SfB is not available**
- **CMS is needed** for A/V Transcoding, also for P2P calls

Federation with Skype for Business online (Intracompany scenario)



- It's an **intracompany** scenario because the Office 365 tenant is owned by the customer
- ...but the interoperability solution relies on the **B2B architecture** because the Microsoft backend is reachable only from Internet

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Webex Meetings

Interop capabilities with Skype for Business

- Supports Office 365 & Skype for Business Server
- Delivers **native** two-way audio, video, and VBSS/RDP based content sharing
- Enables SfB users to start meeting as host and join before host
- Option to insert a Microsoft specific dial-in SIP address in the calendar invite (*)

Dial [sip:dgrandis@go.webex.com](tel:sip:dgrandis@go.webex.com)

Join by phone:

1-877-668-4488 US Toll Free

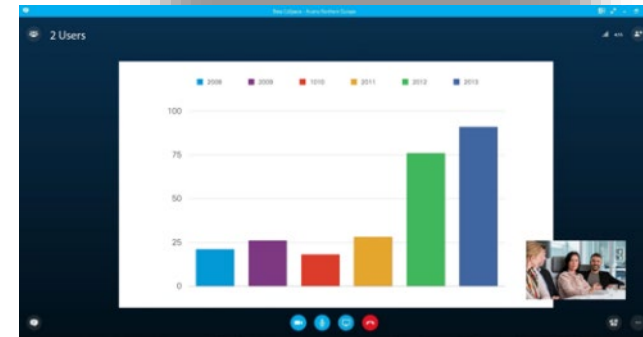
+1-415-655-0000 US Toll

Access code: 345390177

[Global call-in numbers](#) | [Toll-free calling restrictions](#)

Join using Microsoft Skype for Business

Dial [dgrandis.go@lync.webex.com](tel:dgrandis.go@lync.webex.com)



(*) The requirement of a specific dial-in address will be removed with Webex Meetings Suite 40.1
– Planned for Q1CY20 (subject to change)

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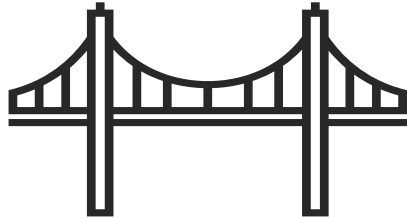
At the release of Microsoft Teams islands persisted between the two leaders...



- In order to use Microsoft Teams with Webex devices, customers needed to license a 3rd party solution
- Microsoft created a **CVI certification** for these vendors to bridge the gap
- Pexip, BlueJeans, and Poly were the only CVI partners



...but not anymore!



Cisco and Microsoft
have come together
to deliver a better user
experience



Cisco will be a certified
Microsoft CVI partner



Microsoft Teams will work with
Webex video devices via
modern web technologies



Webex Meetings will work with
Microsoft Teams room devices
via modern web technologies

Webex video devices joining Microsoft Teams meetings



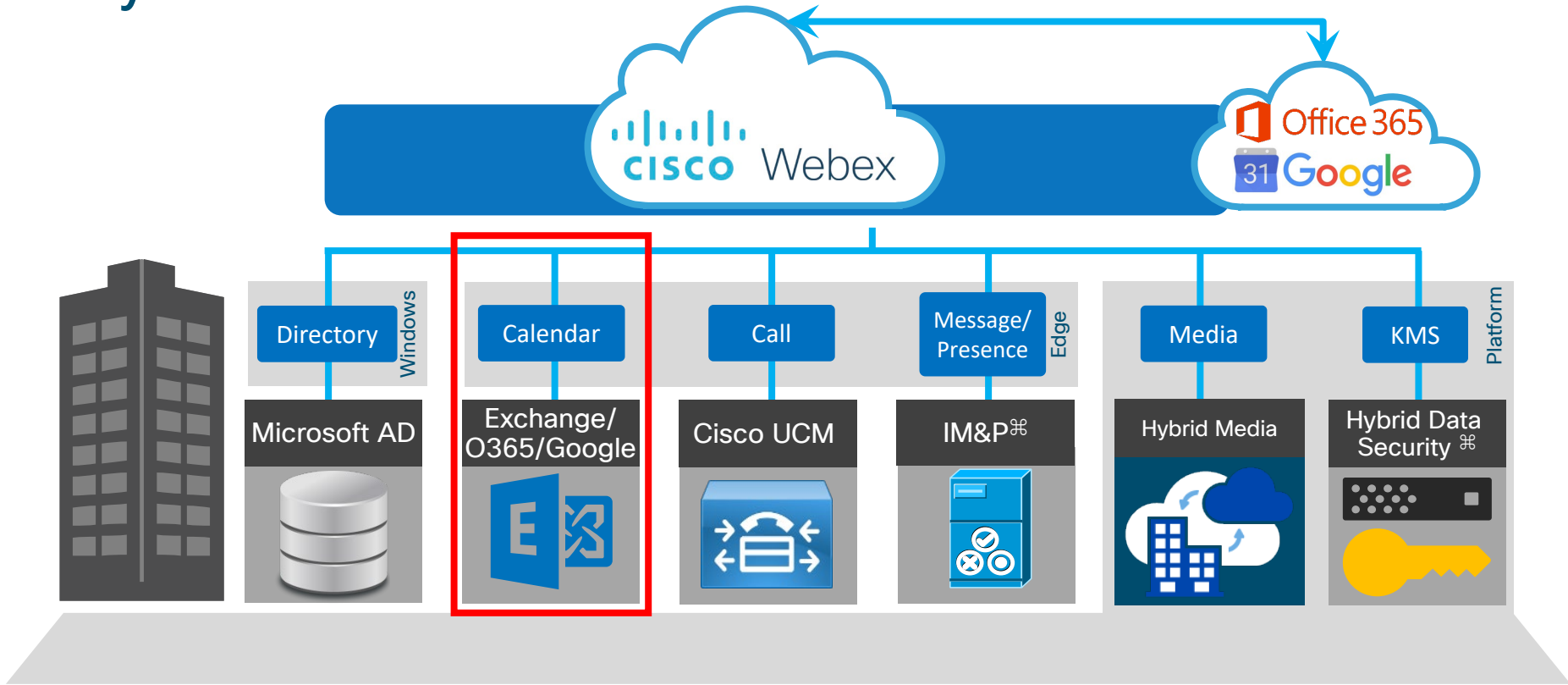
Virtually any Cisco and 3rd party video device can join MS Teams meetings via CVI Cloud Gateway

Richer, seamless meeting experience, without requiring 3rd party interop

Join from cloud registered or cloud aware Cisco Webex web-engine capable devices

Joining other Microsoft Tenant customers

Integrating on-prem and cloud with Hybrid Services



Hybrid Calendar Service

Direct service connection to users' calendars

Cloud microservice orchestrating start & join of meetings on different platforms (1)

- Webex Meetings
- Cisco Meeting Server (on-premises conferencing offering)
- SIP standards-based meetings (non-Cisco)
-and soon....**Microsoft Teams integration!**
- **Meetings List** for Webex Teams apps & **Webex video devices**
- **One Button To Push**
- Users add a keyword to the invite “Location” to schedule different meeting types

(1) Each meeting platform integration may support a different set of Calendar Systems

OBTP Scheduling and Joining Experience

Organiser Meeting **Format Text**

Send Update Cancel Appointment Scheduling New Email Reply All Cisco Webex Reminder:

From: Calendar – Itaspark

To: Davide Grandis (dgrandis) **Moorea** sx20t dx70

Subject: Chat on OBTP for linked devices

Location: @meet

Duration: 30 Minutes All-day event

Starts: 22/ 1/2020 12:15

Ends: 22/ 1/2020 12:45

This invitation has been sent.

- Do not delete or change any of the following text. -

When it's time, join the Webex Teams meeting here.

Meeting number (access code): 849 399 452

Join

DX70 >

Upcoming meetings

You can join this meeting from 12:10

Chat on OBTP for linked d...
12:15 - 12:45

12:05

DX70 >

Starting in 5 minutes

Chat on OBTP for linked devices
12:15 - 12:45

Join

No more meetings today

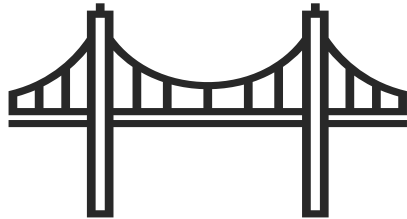
Call Join Webex

cisco Live!

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Joint Cisco/Microsoft Announcements



Cisco and Microsoft
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Cisco will be a certified
Microsoft CVI partner



Microsoft Teams will work with
Webex video devices via
modern web technologies



Webex Meetings will work with
Microsoft Teams Room devices
via modern web technologies

Cloud Video Interop (CVI) for Microsoft Teams

Certified and supported by Microsoft

- Only available via Certified Partner Solutions.
- Co-engineered with Microsoft
- Customer TAP prior to certification

Enterprise Ready

- HD video and Content (VBSS)
- Support for H.323 and SIP meeting room devices
- Native Teams/Exchange scheduling
- Gateway design instead of VMR*

Scales for the cloud

- Deployed and Managed in Azure
- Auto scale with cloud solutions



***see next slide**

Cloud Video Interop (CVI) for Microsoft Teams Gateway design

When a **meeting** is hosted on a Microsoft Teams **tenant enabled with CVI**, any video device – from any company – can **join it**

CVI is based on a Gateway approach

- All calls are independently “**gatewayed**” to the Microsoft Teams mcu
- Meetings happen in the Microsoft cloud. All media streams are hair-pinned and mixed by them
- The maximum number of visible panes is dictated by the SDK (today it is up to 10)

No MCU cascading

(i.e. no CMS Dual Homed Conferencing)

No VMR

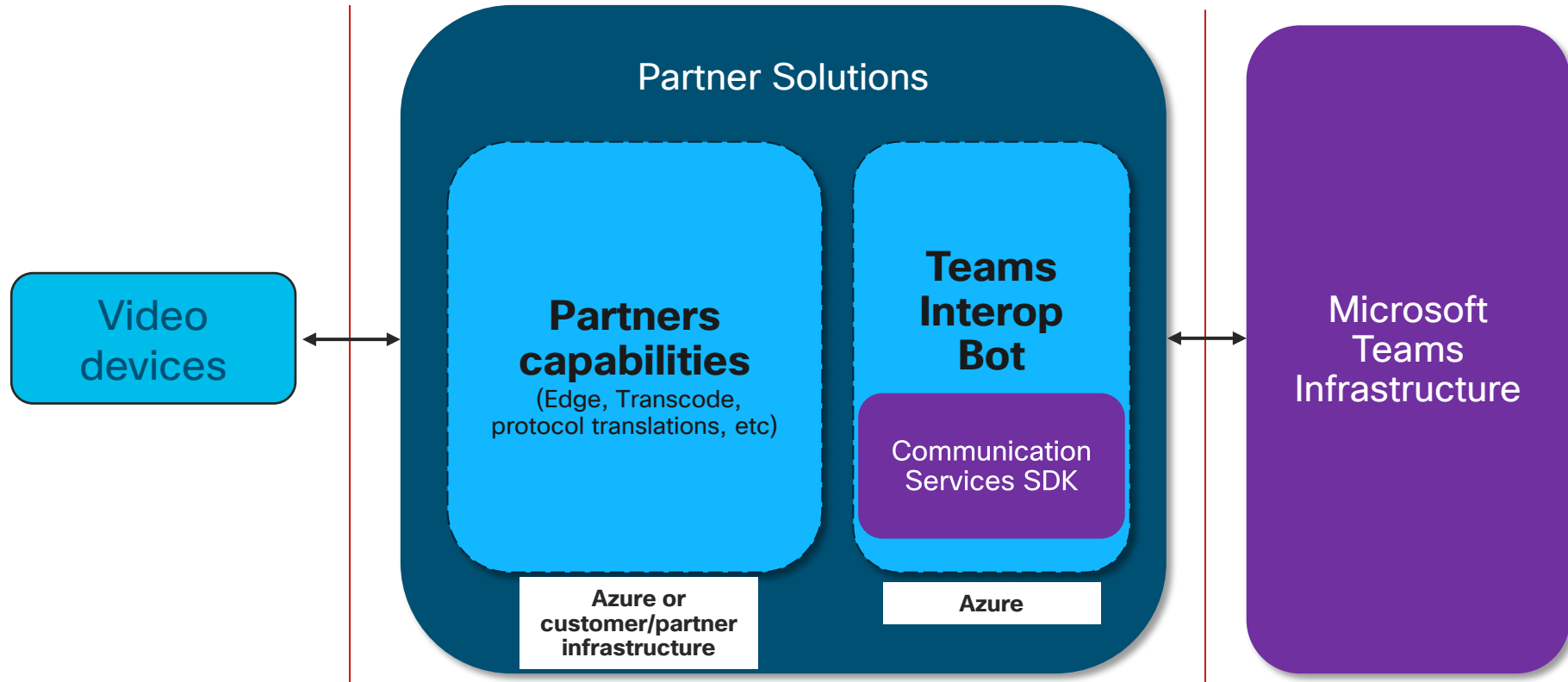
(CVI SDK doesn't allow a Microsoft Teams client to join Cisco hosted conferences)

No Point to Point calls

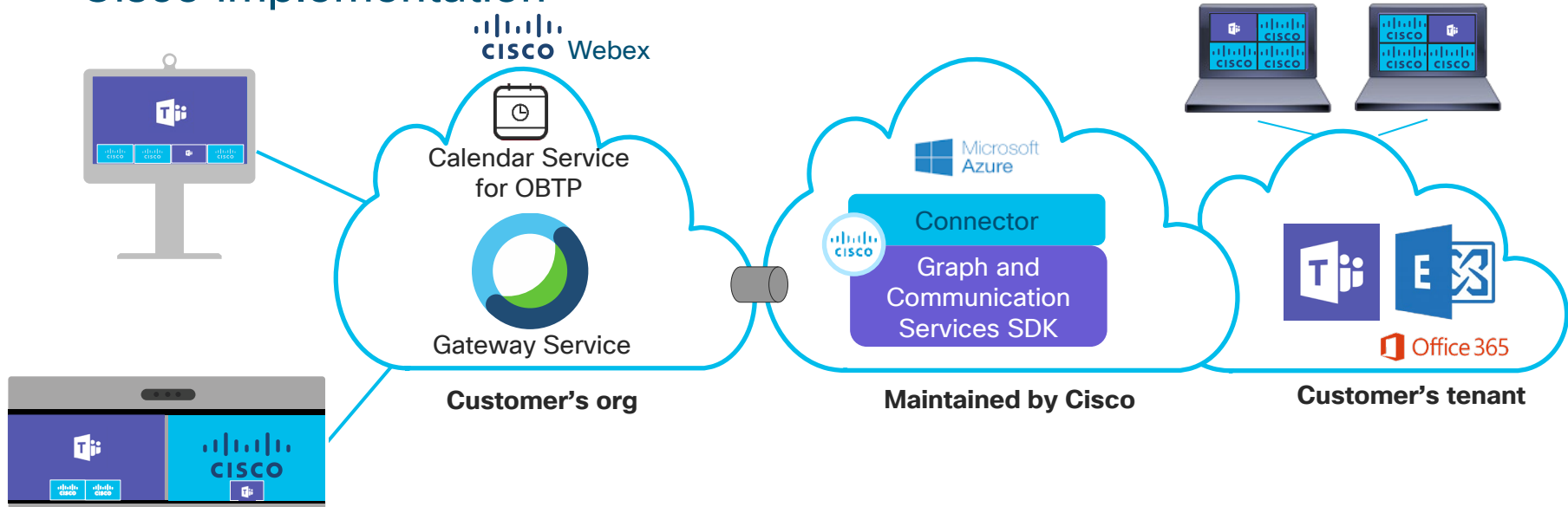
(CVI SDK doesn't currently allow it)



Cloud Video interop - Reference architecture



Cloud Video interop gateway Cisco implementation



- **Cisco Cloud Video Interop gateway (CVI)** is a service provided by the Cisco Cloud and doesn't require on-prem components nor software upgrades on video devices
- The **Microsoft components** needed in **Azure** are **owned and maintained by Cisco** on behalf of our customers
- It is available to both **on-prem** registered and **Webex Cloud** registered/aware video devices

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Calendaring integration

As per CVI partner design, Microsoft handles **all calendar manipulation**

- We are only reading and acting upon the calendar

Calendar Integration enables us to provide unique features to Cloud and Premises registered Cisco Webex video devices:

- Meeting Lists and Upcoming Meeting Notifications
- **OBTP**

Calendar Integration is not mandatory but is recommended as it provides best Cisco Meeting Experience

Calendaring will also feed WebRTC use case (see next section)

Example Teams invite As generated by Microsoft

Teams Users create meetings in their calendars using the native Microsoft plugin

Invites include clickable link and PSTN dial-in information

If customer is CVI enabled, additional details for SIP callers are added

Join Microsoft Teams Meeting

+1 252-563-4478 United States, Rocky Mount (Toll),
(866) 639-0588 United States (Toll-free)

Conference ID: 614 722 21#

[Local numbers](#) | [Reset PIN](#) | [Learn more about Teams](#)

Join with a video conferencing device

example@m.webex.com VTC Conference ID: 014778137

[Alternate VTC dialing instructions](#)

Teams PSTN Info

CVI Info
(only when enabled)

IVR address

Alternate dialing is available as a direct dial SIP URI that includes the VTC conference ID and the customer's unique identifier

In-Meeting Cisco's flexible layouts

Single screen devices

CVI Gateway will provide flexible layouts to video devices, while Microsoft Teams users will see their respective layouts

Active Speaker



Overlay



Equal



In-Meeting Cisco's flexible layouts

Dual screens devices

CVI Gateway will provide flexible layouts to video devices, while Microsoft Teams users will see their respective layouts

Active Speaker



Overlay



Equal



Planned features (CVI) for GA Summary

Supported video devices:

- Cisco Webex Cloud registered
- Cisco Webex on-prem registered
- Cisco Webex Edge enabled devices
- SIP standard based
(H.323 via on-prem interworking)

Flexible layouts for Video devices
(up to 10 panes back from Teams)

2way content sharing

Layout control via DTMF

Unique features provided by Cisco Webex Video Devices

One Button To Push

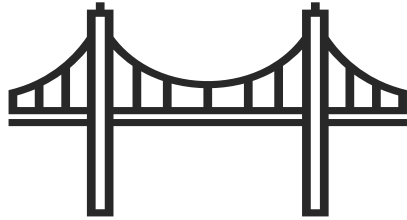
Multiple screens support

Recording Indicator

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Webex Meetings will work with
Microsoft Teams Room devices
via modern web technologies

Modern web technology - WebRTC

Introduction

WebRTC based integration enables video devices to join Microsoft Teams meetings without the need of a CVI solution

Primary use case of WebRTC integration is to join meetings organized by other - non CVI enabled - companies

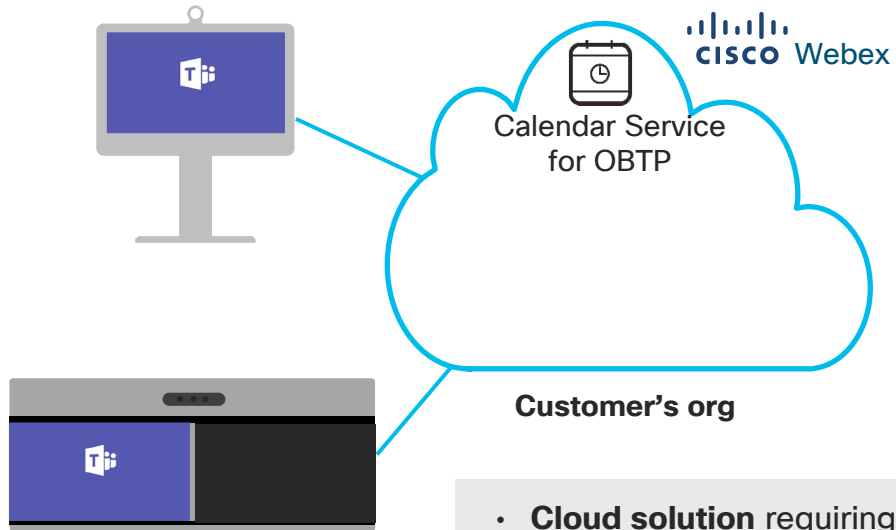
Meetings happen in the Microsoft cloud and all media streams are hair-pinned and mixed by the Microsoft mcu

No VMR, No Point to Point calls

WebRTC will be supported on web-engine enabled Cisco Webex video devices only

Modern web technology – WebRTC Cisco implementation

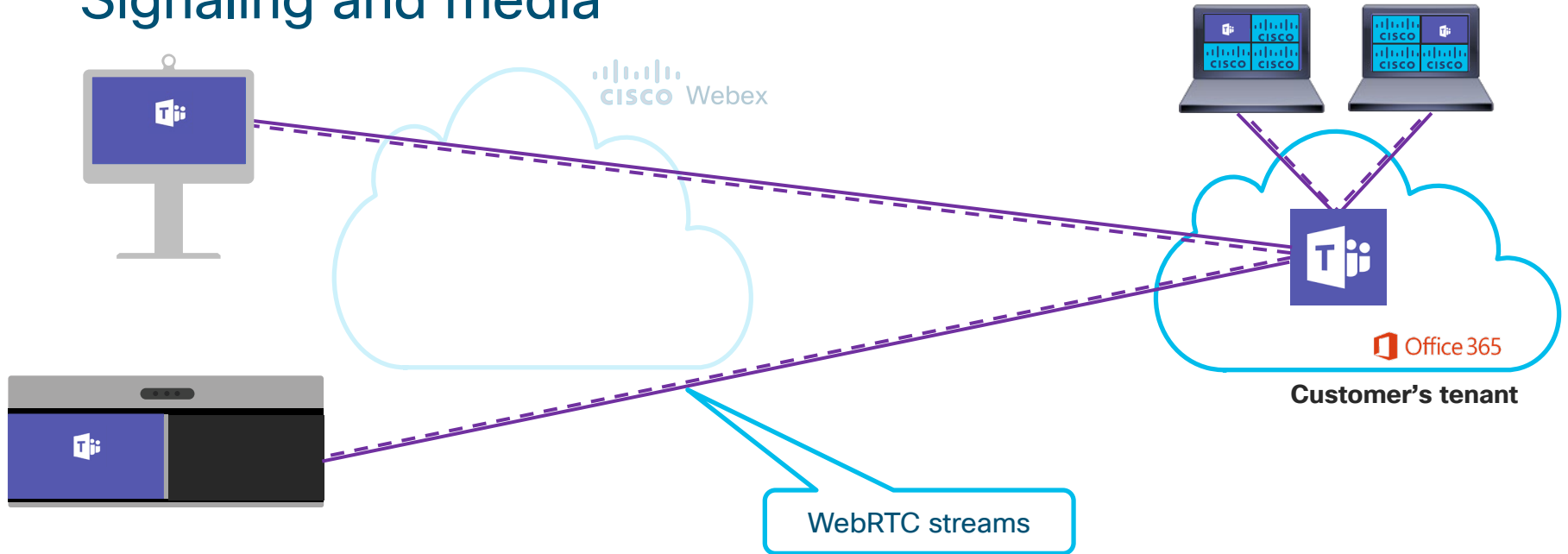
Planned for
RoomOS 9.12



- **Cloud solution** requiring no on-premises infrastructure – uses **embedded browser** in endpoint to directly join a Microsoft Teams meeting as a guest
- **Deployment:** Cisco Video devices must be cloud-registered or registered on-premises using Webex Edge for Devices (cloud aware)
- **Schedule & Join:** Calendar integration provides OBTP on Cisco video devices only (no IVR option nor direct dial-in)

Modern web technology - WebRTC

Signaling and media

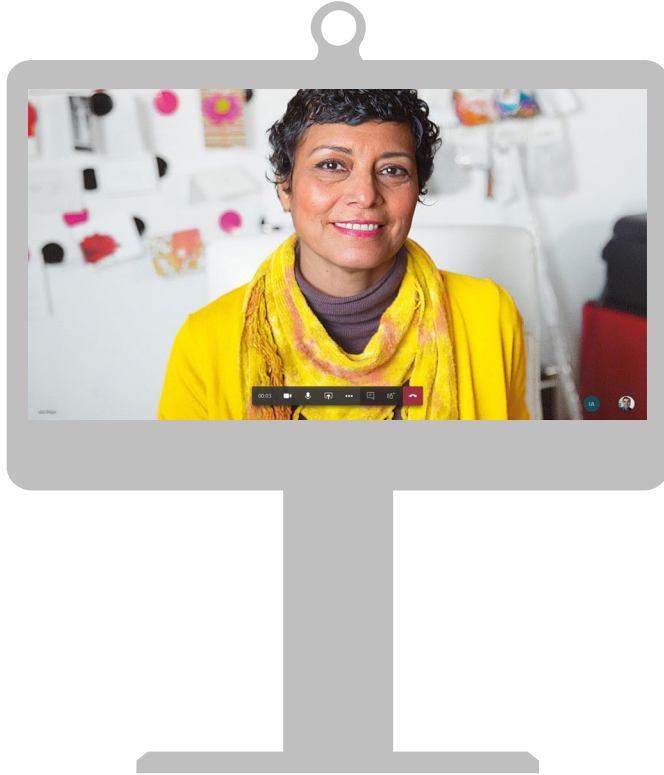


- WebRTC traffic for both cloud registered and cloud aware video devices will directly flow from the customer's premises to the Microsoft Teams tenant

Modern web technology – WebRTC

Layouts and UX summary

Subject to
Change



All users get their native Teams experience from Microsoft, depending on the device/technology/use case:

- Current implementation of MS Teams web app (chromium) provides one layout only
- Only the Active Speaker is shown on video. Other participants are displayed as avatars at the bottom of the screen
- Content sharing replaces Active Speaker's video
- MS Teams clients users get Continuous Presence 2x2

cisco *Live!*

Planned features at GA Summary

Supported video devices:

- Cisco Webex web-engine enabled devices (Room Kits, Room Series, Boards, Desk Pro)
- Cisco Webex Cloud registered
- Cisco Webex Edge enabled devices

OBTP Join **only**

Single screen with Microsoft Teams layout

Recording Indicator

One-way content sharing from MS Teams clients

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The Webex Meetings advantage

With Webex video devices

Panoramic Video

Wireless content sharing via Proximity

Companion Mode between one Room Series device and one Webex Board

Continuous teamwork with Webex Teams Integration

Straight forward billing via Flex Plan



Multistream

People Insights

Face recognition / name labels

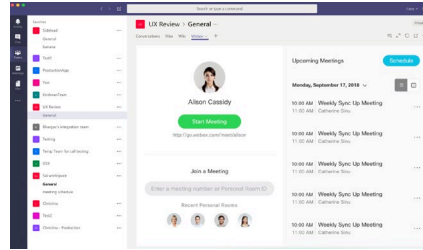
Bi-directional whiteboarding

OBTP enhanced by Webex Assistant

Localized media via Video Mesh

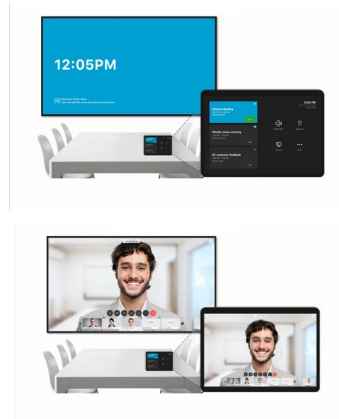
Microsoft Teams users joining Webex Meetings

Webex Meetings customers who also have Microsoft Teams (e.g. for messaging or file sharing)



Webex Meetings app for Microsoft Teams is available today inside Microsoft Teams for seamless scheduling & join

Webex Meetings customers who invite someone from another company that uses Microsoft Teams Rooms

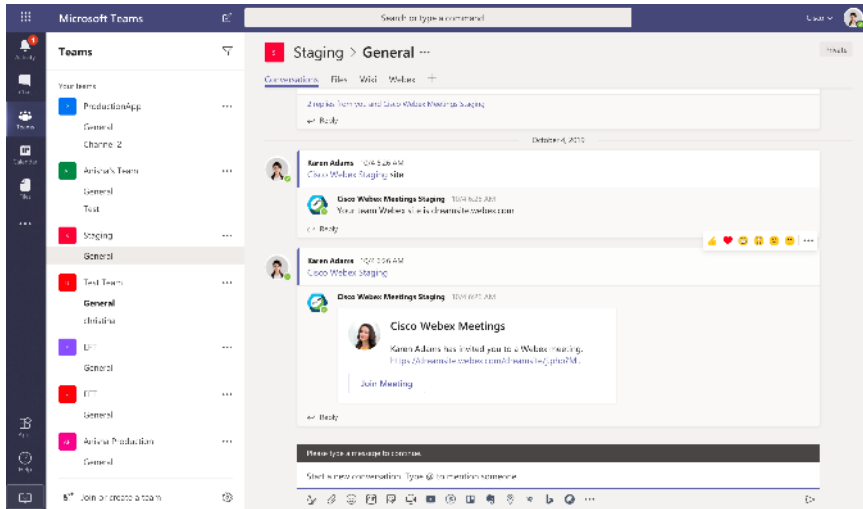


They can also seamlessly join your Webex Meeting using modern web technologies

Webex Meetings integration – Microsoft Teams client

Cisco Webex Meetings for Microsoft Teams

Seamlessly schedule, start, or join Cisco Webex Meetings from within Teams



Microsoft Teams users can:

- Send a message in the channel to share their Personal Room link or a specific meeting link
- Schedule Personal Room or regular meetings
- Start or join Personal Room or scheduled meetings from Microsoft Teams
- View upcoming list of meetings and edit/update from there
- View meeting recordings list and play recordings from there
- Get real-time meeting notifications with meeting info and 'Join' button
- Get recording notifications with 'Play' button

Cisco Webex Meetings Chat Messaging Extension

Microsoft Teams users can use the Webex Meetings messaging extension in a Channel, Group Chat or Private Chat to share a Join button to a meeting in the Personal Room or for a Webex scheduled meeting

Enter the meeting number to share the link for a Webex scheduled meeting

Select the 'Share Meeting Link' to share your Personal Room URL

In the chat message, select the Cisco Webex Meetings icon on the messaging bar.

Clicking on the hyperlink posted in the channel will cross-launch the Webex Meeting client

Cisco Webex Meetings Channel Tab for Microsoft Teams

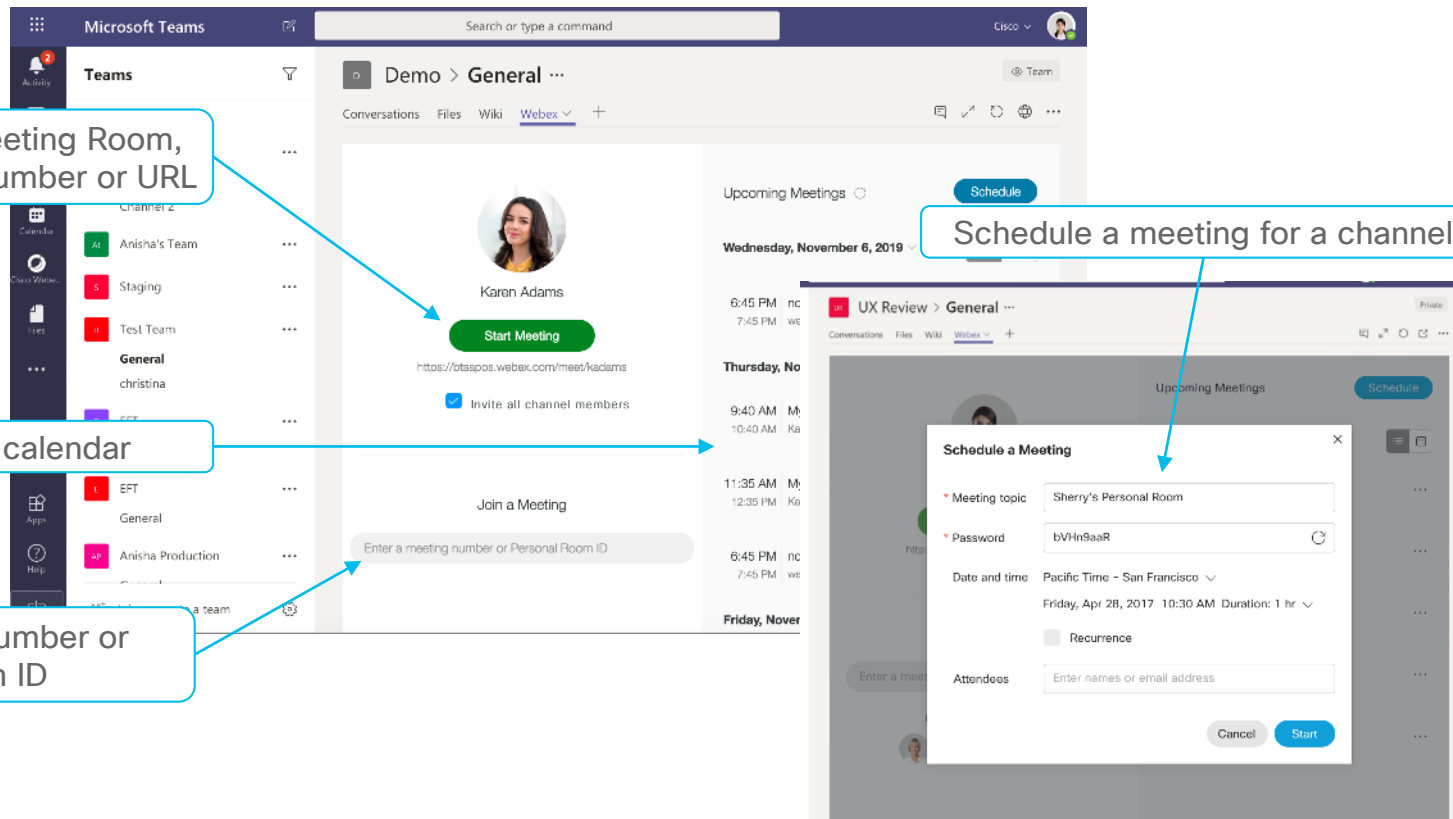
Webex Tab in a channel where Microsoft Teams users can access to multiple enhanced capabilities

Start my Personal Meeting Room, or join a meeting by number or URL

View my meeting calendar

Join a meeting by number or Personal Room ID

Schedule a meeting for a channel



Cisco Webex Meetings Channel Tab for Microsoft Teams

NEW

Users will now see all their meetings in their channel tab calendar. Meetings scheduled in the channel will be highlighted

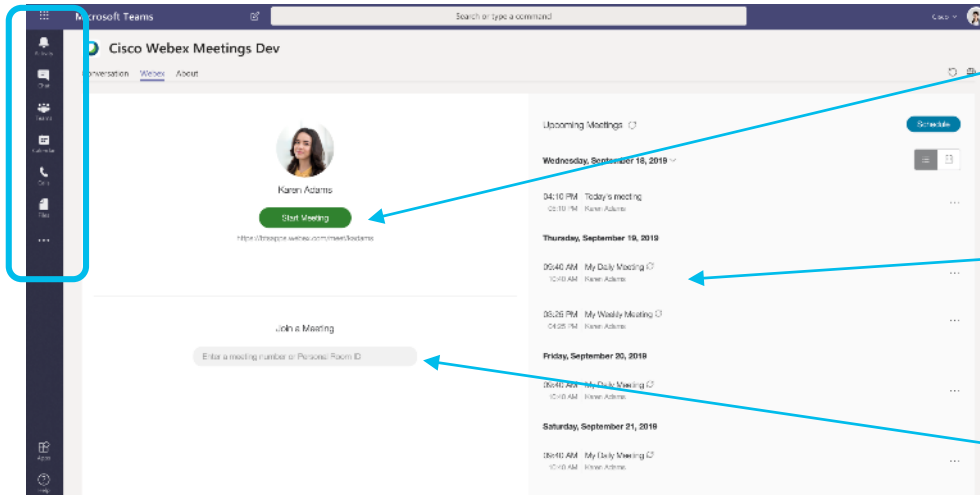
When scheduling a meeting in the channel tab, all members can be invited by default. You can also invite other people, outside the channel

CISCO Live!

Cisco Webex Meetings Personal Tab for Microsoft Teams

NEW

Microsoft Teams users now have access to a Webex Meetings personal Tab from the left rail



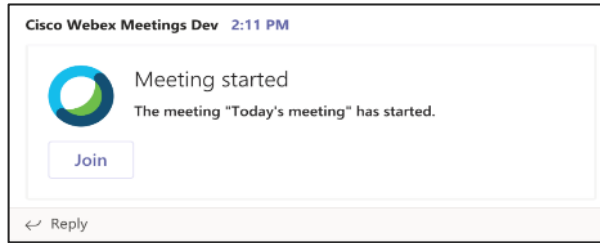
Schedule a Personal Room meeting or regular meeting on preferred Webex site, which can be selected from a pulldown.

Meeting list on the personal tab shows all upcoming meetings for the user.

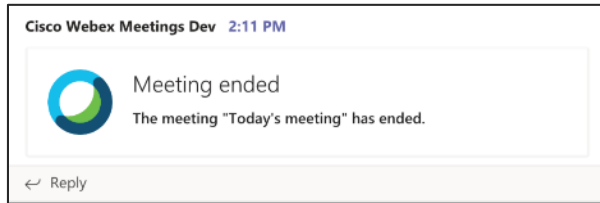
Join a meeting by entering meeting number or Personal Room ID.

Cisco Webex Meetings Notifications for Microsoft Teams

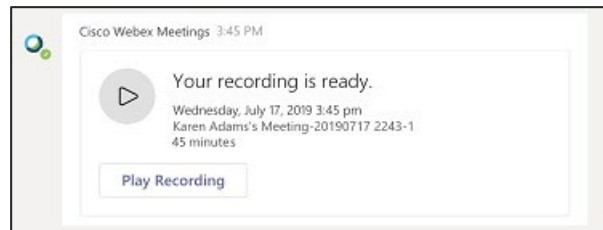
NEW



When a meeting has started, a notification will be sent in the channel so members can join directly from there.



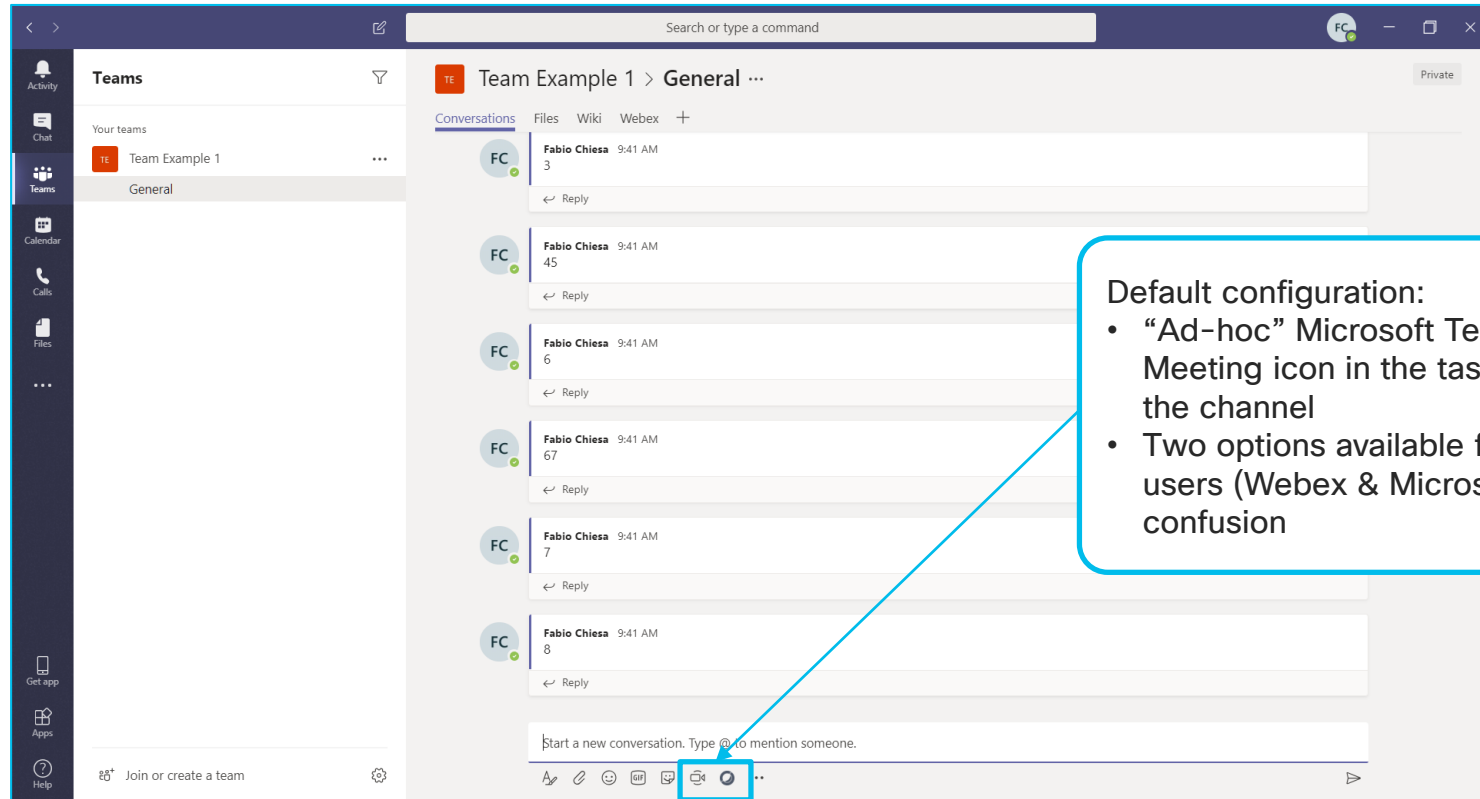
When a meeting has ended, a notification will be sent in the channel.



When a recording becomes available, a notification will be sent in the channel where the meeting is scheduled.

Microsoft Teams default configuration

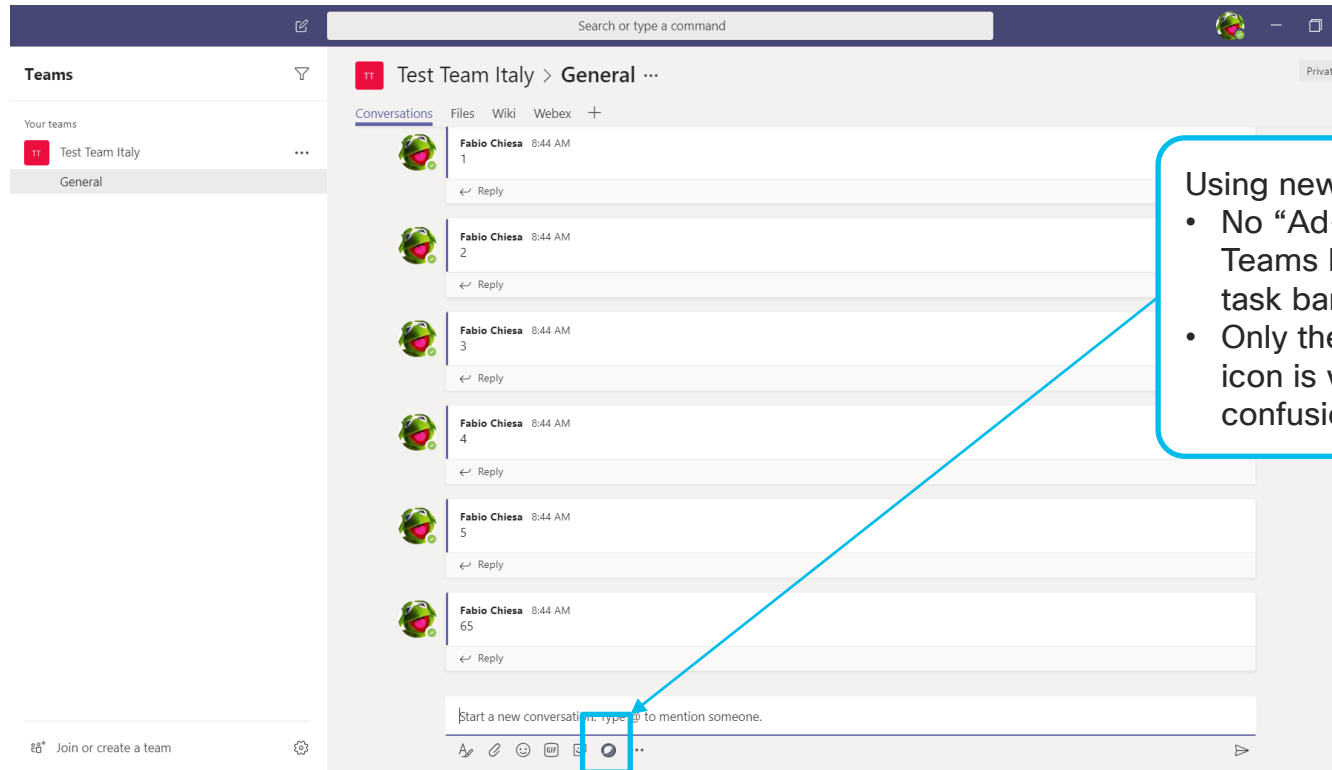
Native Meeting capabilities enabled (1)



Default configuration:

- “Ad-hoc” Microsoft Teams Meeting icon in the task bar of the channel
- Two options available for end users (Webex & Microsoft) -> confusion

MSFT Teams «enhanced» configuration using MSFT Policy Native Meeting capabilities disabled (1)

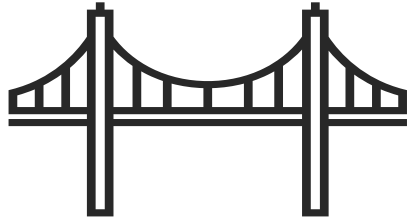


Using new Microsoft Policies:

- No “Ad-hoc” Microsoft Teams Meeting icon in the task bar of the channel
- Only the Webex Meeting icon is visible -> no confusion for end users

Webex Meetings integration - Microsoft Teams Rooms

Joint Cisco/Microsoft Announcements



Cisco and Microsoft
have come together
to deliver a better user
experience



Cisco will be a certified
Microsoft CVI partner



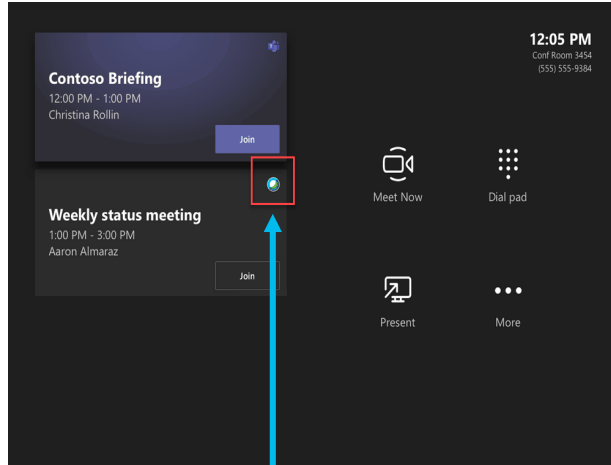
Microsoft Teams will work with
Webex video devices via
modern web technologies



Webex Meetings will work with
Microsoft Teams Room devices
via modern web technologies

WebRTC on Microsoft Teams Rooms

Subject to
Change



Teams Rooms will join Webex Meeting via Webrtc using the embedded browser capabilities
Usual room scheduling mechanism and joining process will be used (invite forwarding)
Final details regarding supported feature set still to be shared by Microsoft

Agenda

- Introduction – SfB vs Microsoft Teams
- Skype for Business
 - Intra-company Scenario
 - Business to Business Federation
 - Webex Meetings Interoperability
- Microsoft Teams
 - Microsoft Teams meetings – Interoperability using CVI Gateway
 - Microsoft Teams meetings – Interoperability using WebRtc
 - Webex Meetings integration
- **Summary**

Impact of Microsoft Teams migration on interoperability



Before migrating to Microsoft Teams you should consider that the following interoperability use cases (available with Skype for Business) are not possible anymore:

- Dual Homed Conferencing
 - Video mixing happens on both Cisco CMS and Microsoft AVMCU for their respective participants
 - Media is kept On-premises for video devices
- Virtual Meeting Room based on CMS or Webex Meetings (Dial-in from Microsoft clients towards Cisco hosted conference)
- White gloves service with CMS
- Point to Point calls

If the items above are important to you the Cisco Webex calling & meeting integrations should be considered as a better option

Summary

- Skype for Business to Microsoft Teams migration implies a paradigm change, both technical and commercial. Now Cisco and Microsoft provide joint support of their interoperable solutions
- Skype for Business interop and Microsoft Teams interop can work simultaneously during the migration process
- CVI gateway and WebRTC interop can make your Microsoft Teams Meetings available to any video device
- The Webex Meetings integration for Microsoft Teams provides a better alternative for your meetings **without the constraints** of interoperability

Complete your online session survey



- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (starting on Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Content Catalog on ciscolive.com/emea.

Cisco Live sessions will be available for viewing on demand after the event at ciscolive.com.

Continue your education



Demos in the
Cisco campus



Walk-in labs



Meet the engineer
1:1 meetings



Related sessions



Thank you





You make **possible**

Microsoft Teams deployment & integration strategy

Mode	Calling and Chat	Meeting Scheduling ¹	Teams & Channels	Use Case
TeamsOnly² <i>Requires home in Skype for Business Online</i>	Teams	Teams	Yes	The final state of being upgraded. Also the default for new tenants with <500 seats.
Islands	Either	Either	Yes	Default configuration. Allows a single user to evaluate both clients side by side. Chats and calls can land in either client, so users must always run both clients. To avoid a confusing or regressed Skype for Business experience, external (federated) communications, PSTN voice services and voice applications, Office integration, and several other integrations continue to be handled by Skype for Business.
SfBWithTeamsCollabAndMeetings ²	Skype for Business	Teams	Yes	"Meetings First". Primarily for on-premises organizations to benefit from Teams meeting functionality, if they are not yet ready to move calling to the cloud.
SfBWithTeamsCollab	Skype for Business	Skype for Business	Yes	Alternate starting point for complex organizations that need tighter administrative control.
SfBOnly	Skype for Business	Skype for Business	No ³	Specialized scenario for organizations with strict requirements around data control. Teams is used only to join meetings scheduled by others.

Long term target

Deploy Microsoft Teams either in **Islands** mode or **SFBwithTeamCollab** mode

In both cases keep the meeting capability on the SfB side using one of the current interoperability solutions still working fine

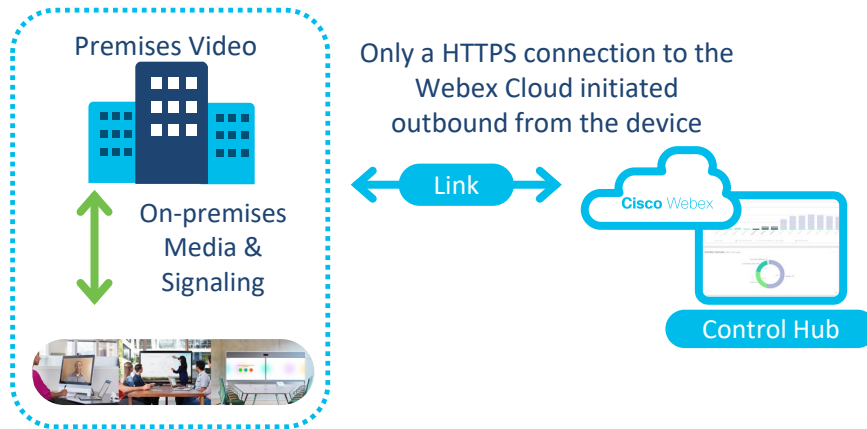
As soon as the Cisco CVI cloud Gateway solution will be available start testing it to evaluate the new User Experience and the network impact

Once everything is tested and implemented in production move the meeting capability on the Microsoft Teams side and plan the SfB client removal. At this point users can be switched to **TeamOnly** mode.

Starting point

Webex Edge for on-premises Webex Devices High Level Overview

Deliver insights and diagnostics for on-premises Webex Devices by linking them to the Webex cloud platform



- **Business-critical calling and media stays on-premises**
- Hybrid deployment and customer migration at their pace
- “One-click migration” – one button to Cloud Link
- This feature will enable more cloud services with time in phases...