



Module 1

# Introduction to Microsoft Teams Rooms

# Objectives



What are Microsoft Teams meetings

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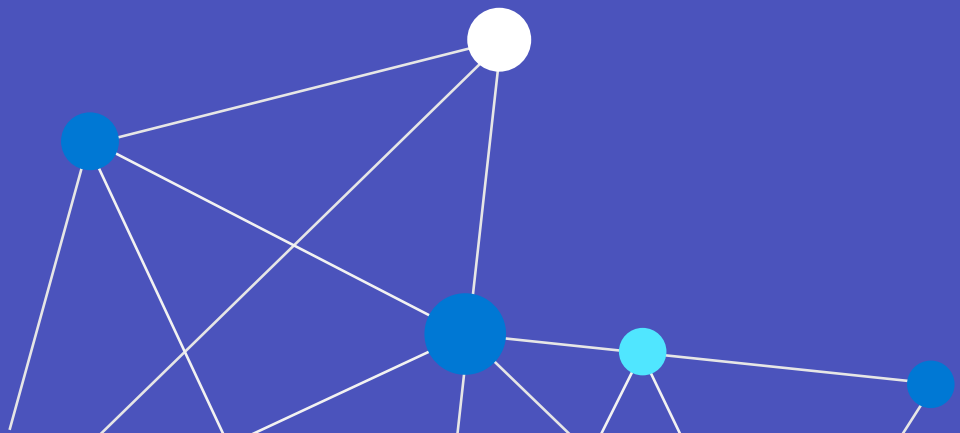
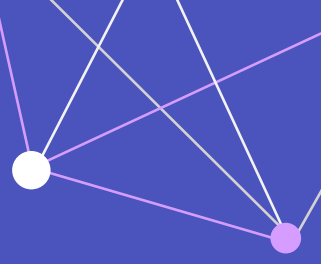
Learn about Microsoft Teams devices

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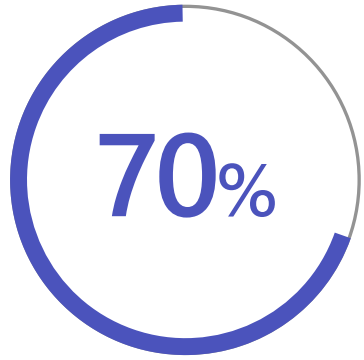
Understand the requirements to  
implement Microsoft Teams  
Rooms

# Meeting Overview

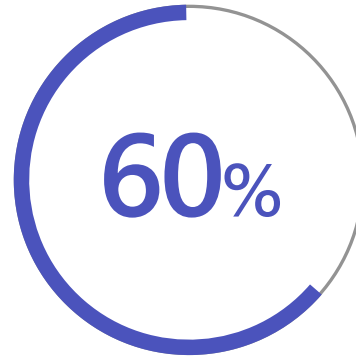


# We must support employee engagement

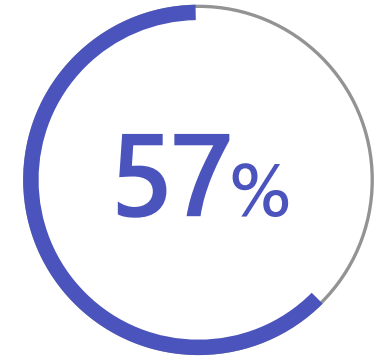
It is critical to success



In the worlds best performing companies, 70% of employees are engaged



But....employees are unsatisfied with their current meetings



And ....employees find meetings unproductive

# Microsoft Teams is the hub for teamwork in Microsoft 365



Chats



Meetings



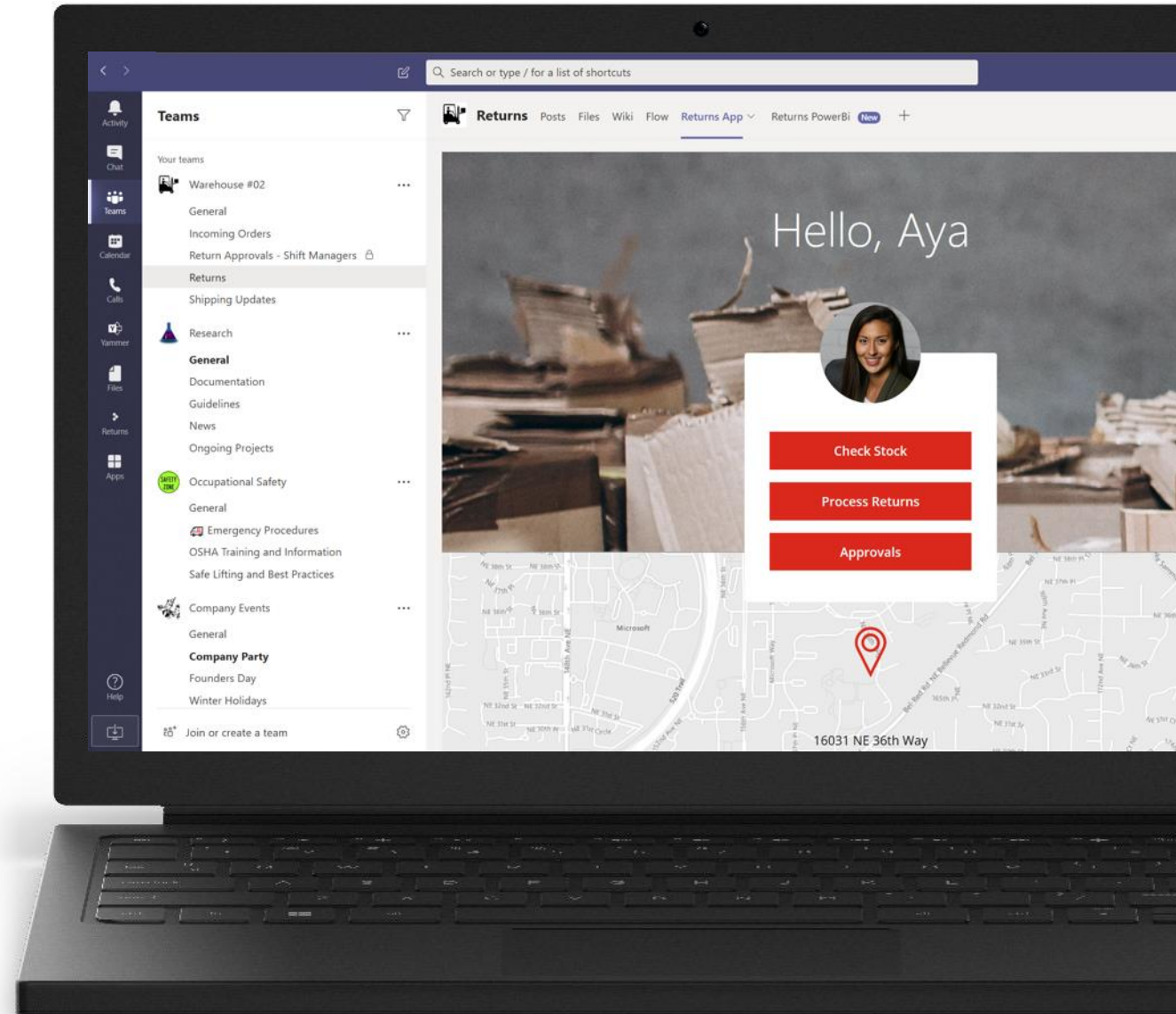
Calls



Files



Apps and workflows



# Get the most out of your meetings



## Meeting lifecycle

- Insights, history, and context
- Keep everyone in the know before, during, and after a meeting
- Take notes and track actions
- Never miss the meeting—even if you missed the meeting—with cloud recording and searchable transcripts



## Easy, high-quality experiences

- High-quality and adaptive audio, video, and content sharing over Wi-Fi & cellular networks
- Real-time coauthoring with integrated Office 365 apps
- Join from PC, Mac, mobile, web, or meeting rooms; from home, the office or on the go
- 1-touch meeting join for conference rooms with Microsoft Teams Rooms



## Intelligent and inclusive

- Automatic live captions and searchable transcripts
- Contribute and share in real-time with digital ink and the integrated Microsoft Whiteboard
- Remove distractions and personalize your video, calling and meeting experiences with background blur and custom backgrounds



## Secure and manageable

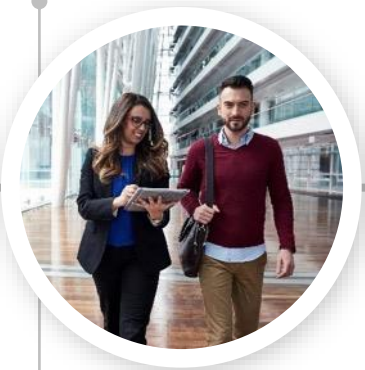
- Office 365 compliance, security, and manageability means you can call and meet with confidence
- Dial into meetings with Audio Conferencing, available in 90+ countries
- Integrated calling, cloud Phone System and full PSTN support
- Broad device ecosystem, support for SIP meeting room devices with Cloud Video Interop services



# Microsoft Teams

A new approach to effective meetings

Before



Get ready for your meeting:  
insights, history, context

During



Make sure everyone's  
voice is heard

After



Take notes, track actions  
and follow-through

# Microsoft Teams

A new approach to effective meetings

## Before



- Chat with attendees
- Collaborate on documents and presentations
- Review history and context to prepare for the meeting

## During



- Co-author office 365 documents
- Follow along with live captions and subtitles, regardless of the language spoken
- Contribute and share in real-time with digital ink and the integrated Microsoft whiteboard
- Participate from anywhere like you are in the room

## After

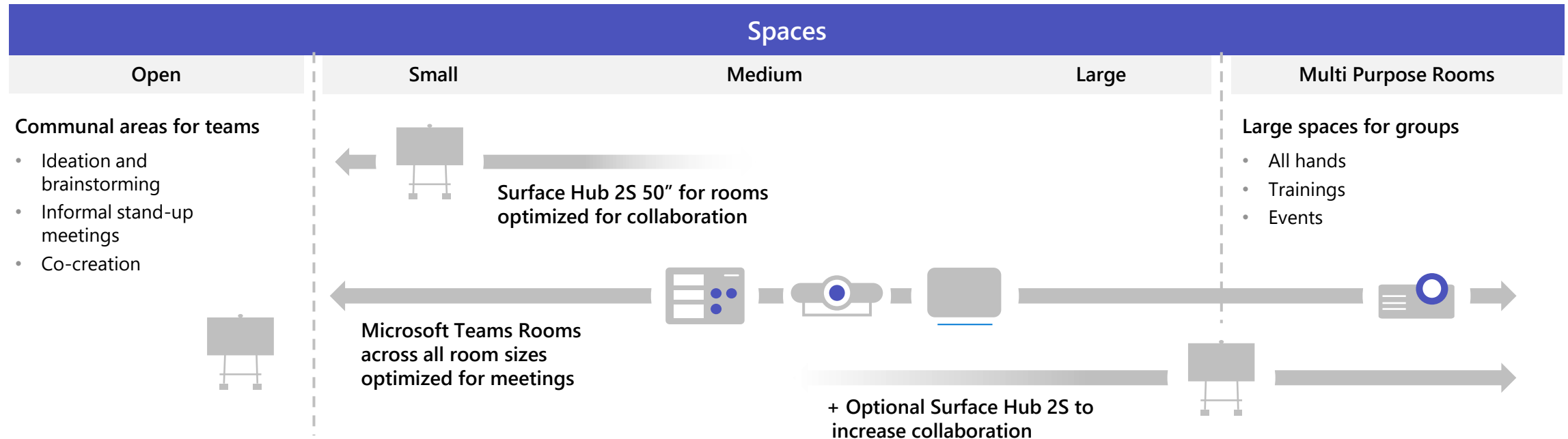


- Review meeting notes and track assigned follow-ups
- Access meeting recordings and transcripts, and search for keywords, names and topics
- Continue to chat and collaborate on documents, whiteboards, and action items
- Schedule and manage ongoing meetings and tasks with the team

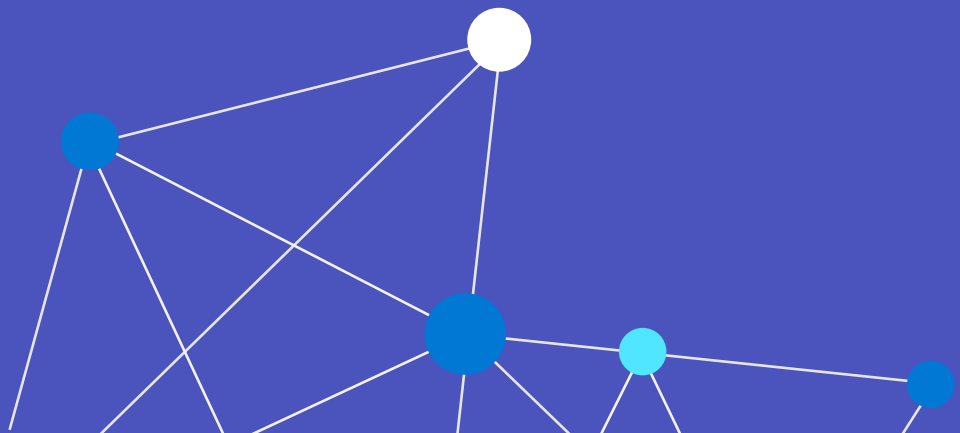
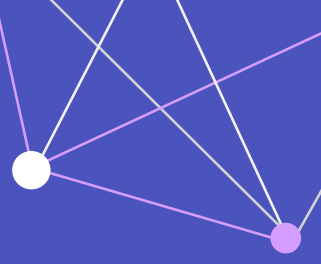


# Microsoft Meeting and Collaboration solutions

	Microsoft Teams Rooms	Surface Hub 2S
Teams app on device	Microsoft Teams Rooms	Microsoft Teams UWP app
Primary focus	Microsoft Teams meetings with advanced audio and video, presentation and content sharing	Rich collaboration features (i.e., Whiteboard, O365), audio and video Teams meetings
Configuration	Touch control, audio/video peripherals portfolio	All-in-one
Displays	Full range of screen sizes, single or dual displays, touch option	50-inch, 4K+ resolution pen/touch screen
Price	Starting at US \$1,799	US ERP \$8,999.99

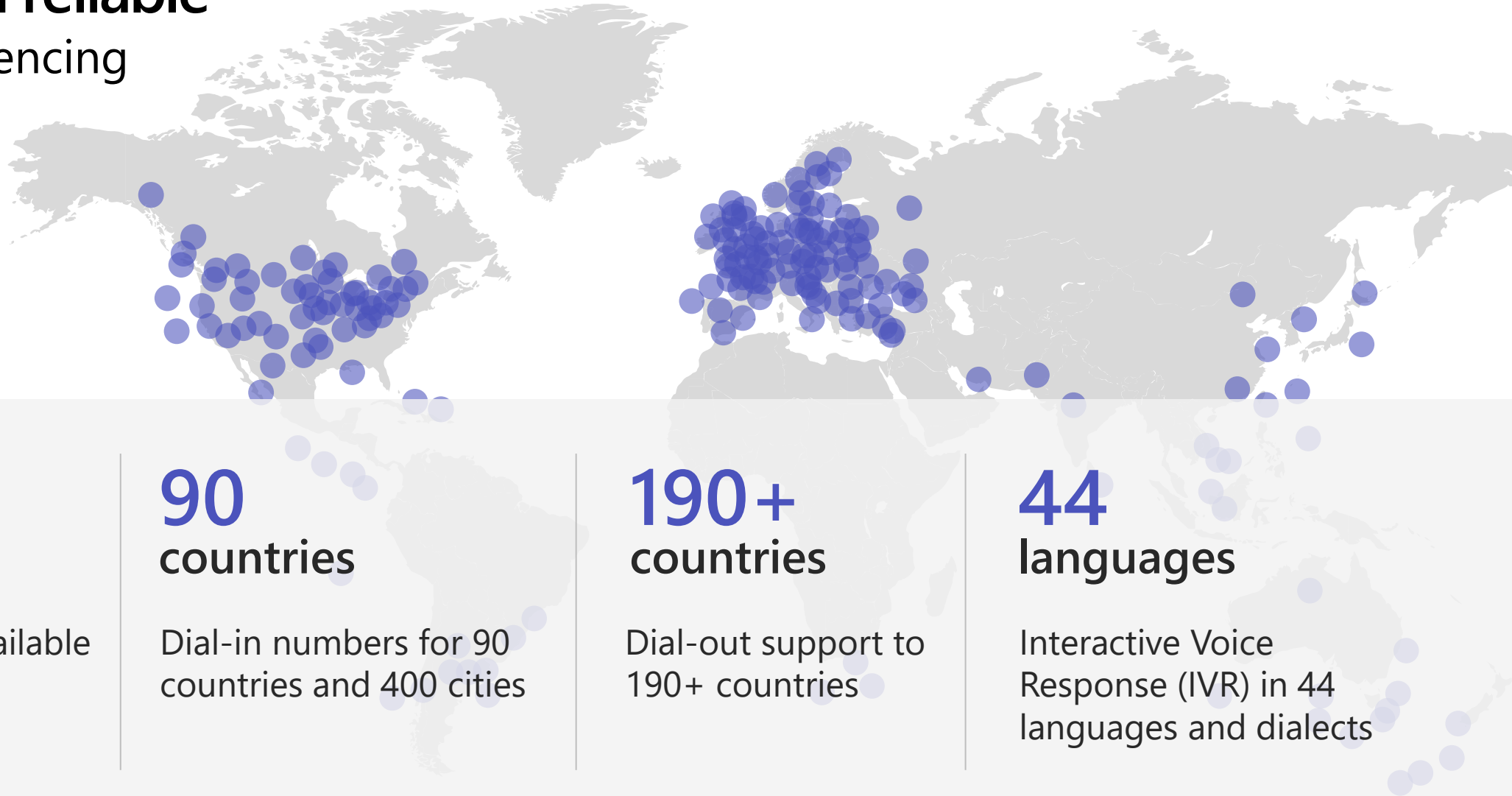


# Audio Conferencing



# Secure and reliable

## Audio conferencing



**72**  
countries

Commercially available  
in 72 countries

**90**  
countries

Dial-in numbers for 90  
countries and 400 cities

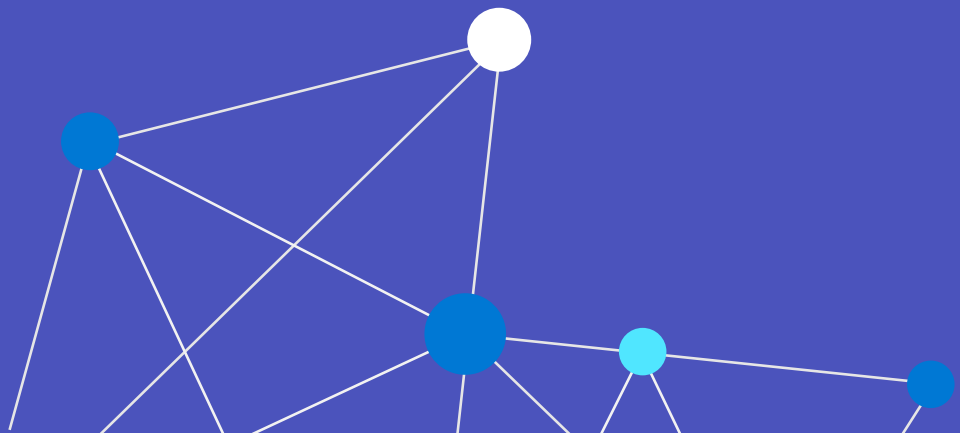
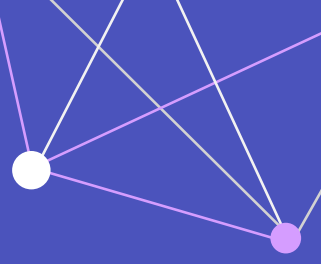
**190+**  
countries

Dial-out support to  
190+ countries

**44**  
languages

Interactive Voice  
Response (IVR) in 44  
languages and dialects

Easy, high-quality experiences



# Consistent experience across devices, screens, sizes, and platforms



PC, Mac, mobile, web, conference rooms, and desk phones



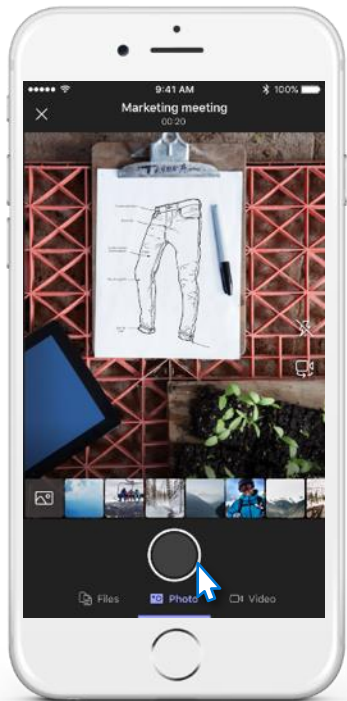
Access Teams meetings across devices wherever you are: at home, in the office, or on the go



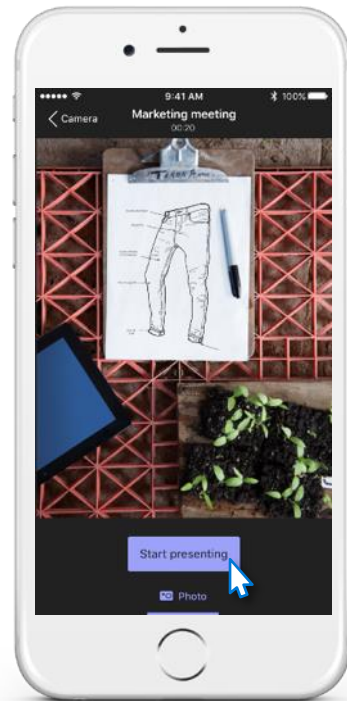
Collaborate directly via mobile with screen share, live camera feed, and PowerPoint



# Great meetings experience on mobile devices



Take a photo



Preview, then  
start presenting

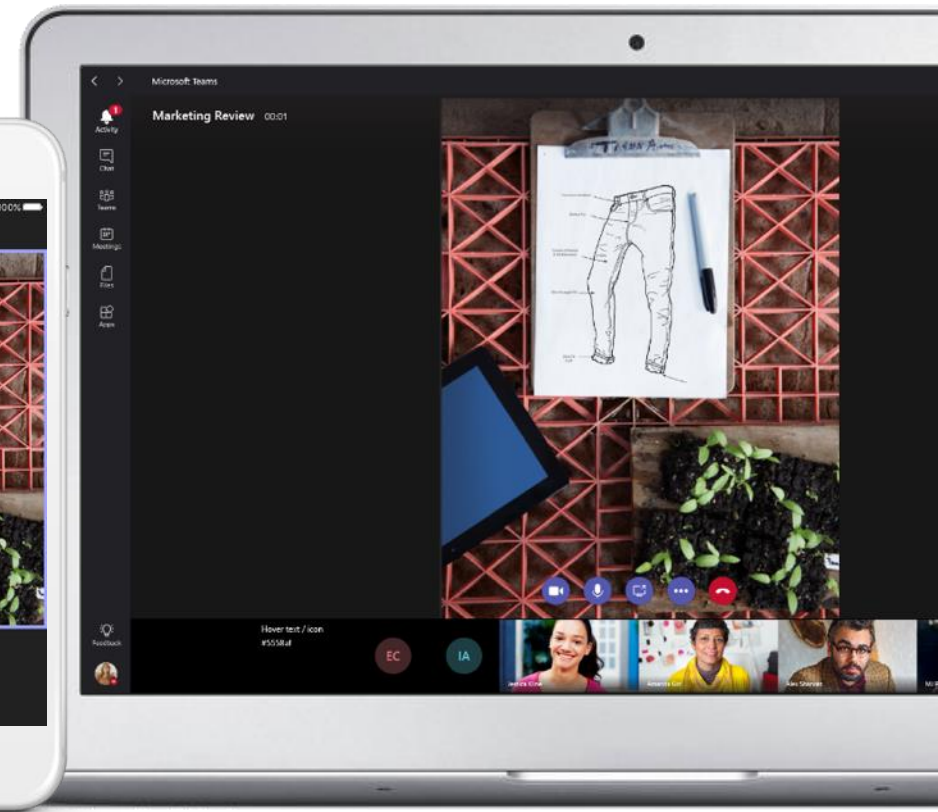


Photo is presented like a screen-share  
and saved to meeting chat



# Intelligence and inclusivity

Follow along in real-time with live captions and subtitles

Cloud recordings and transcripts\* saved as a part of the meeting lifecycle

Search cloud recorded meeting transcripts for names or keywords

Subtitles and translated meeting transcripts available in over 60 languages\*\*

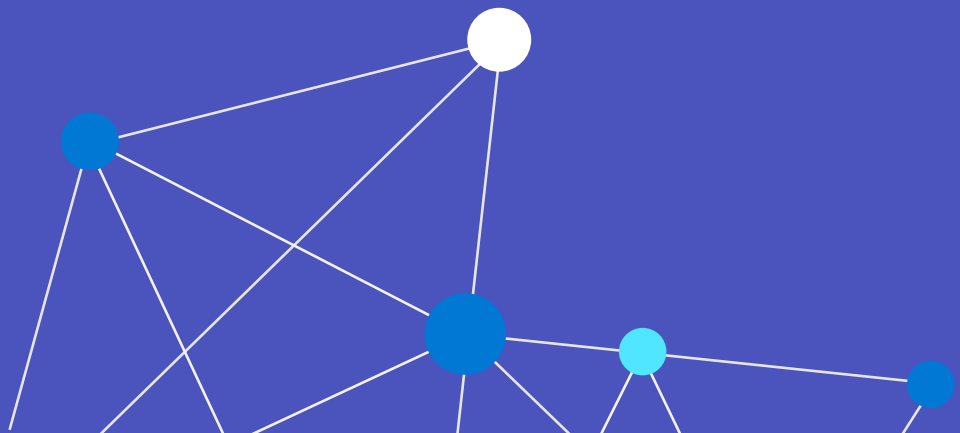
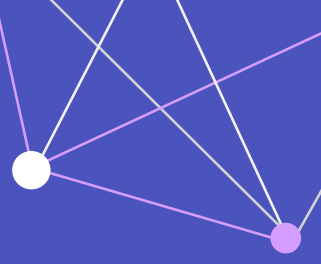
Remove distractions and personalize your video experiences with custom backgrounds

\* Transcripts coming soon

\*\* Subtitles and meeting transcripts coming in 2020



Secure and Manageable



# Easy and Secure



## Designed for mobility

- Seamless WiFi to cellular network handoff
- Better video loss recovery mechanisms
- Adaptive AV experiences over variable bandwidth network (e.g. turn off video, callback via PSTN)



## Network & device resiliency

- More robust AV device failure recovery and software codec failover with dynamic device blacklist
- Support Media over HTTP to better traverse through corporate proxies even when O365 IP ranges
- Automatic roaming and reconnect support across all end points in case of network switches and transient network glitches



## Intelligent user facing diagnostics

- Smart device selection: Automatically pick the right AV device for the user
- Speak-while-mute: Let the user know they are muted while speaking;
- Poor network: Suggest turning off video when there is poor network quality
- Echo avoidance: Prompt the user to join muted and avoid the echo chamber experience

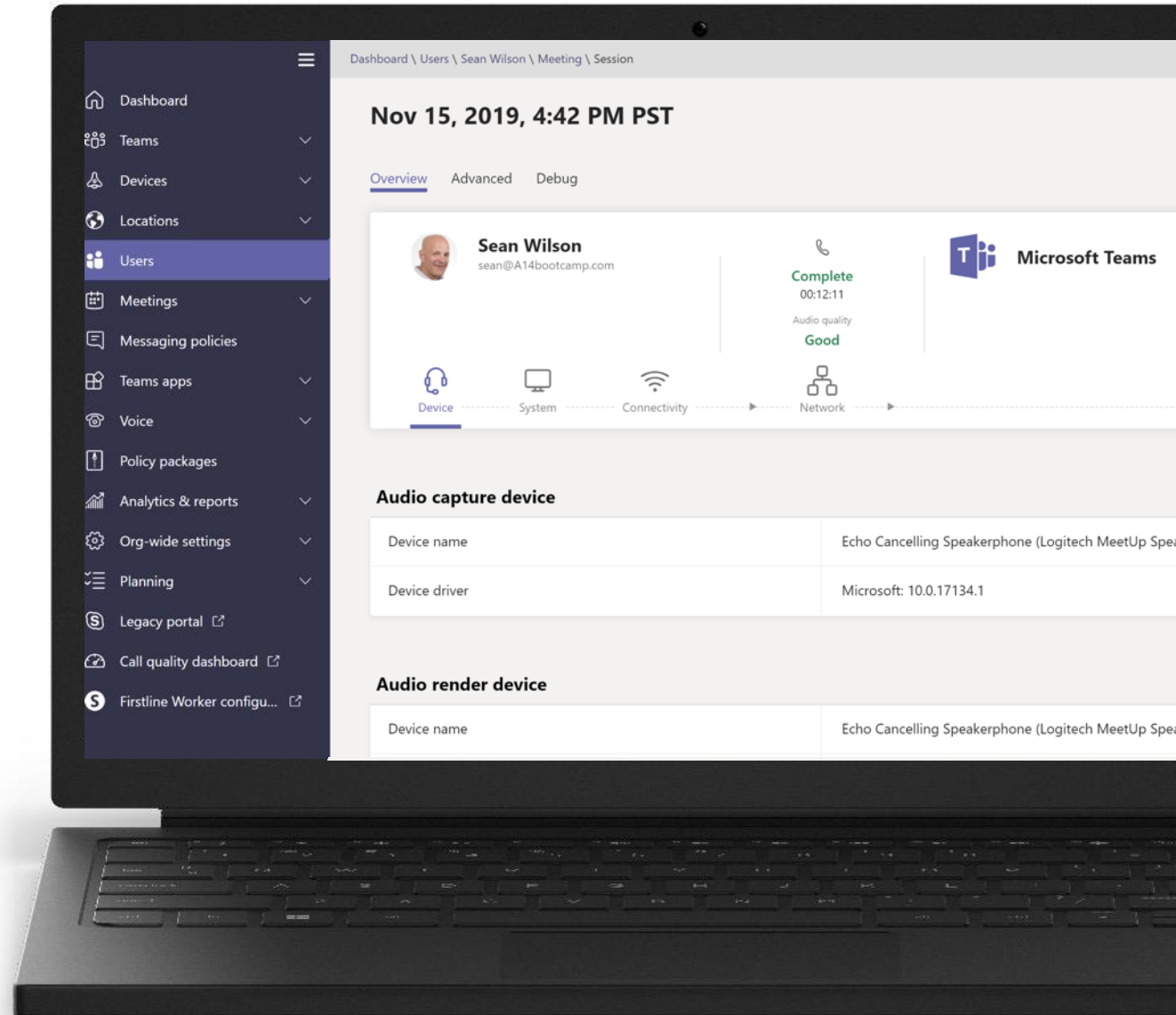
# Call Analytics and Call Quality Dashboard

## Call Analytics

- Allows access to all details for individual call
- Used reactively when users report bad experience

## Call Quality Dashboard

- Provides aggregated view of all calls
- Can be filtered by location, subnet etc.
- Used proactively to discover trends and hotspots



# Built-in security and compliance



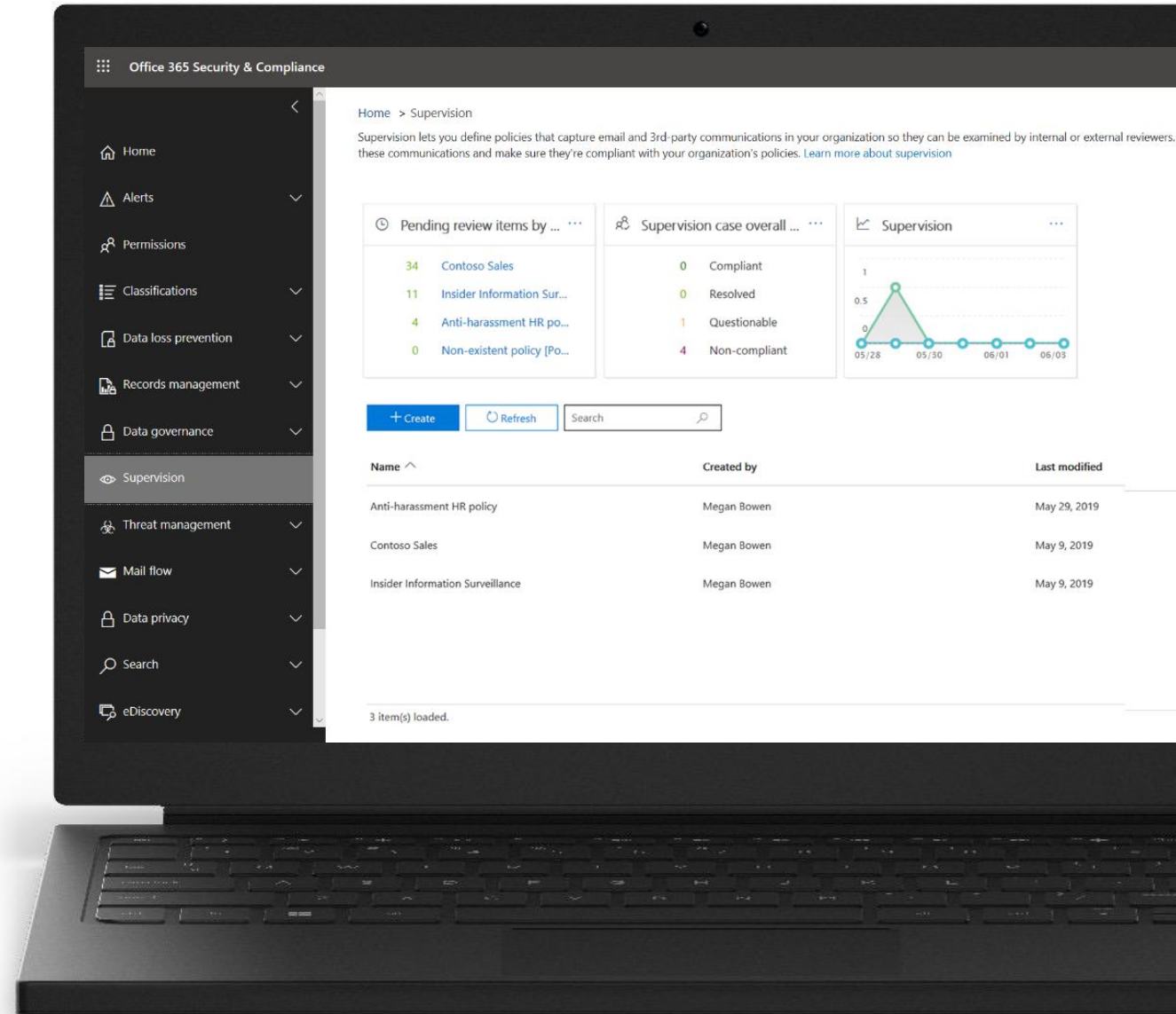
Identify and prevent data leakage with Data Loss Prevention with support for over 80 sensitivity types



Retention and deletion policies for chats and channels



Information barriers enable ethical walls to prevent communications





# Secure and reliable

## Next-gen infrastructure

Built on Azure Intelligent Cloud & Intelligent Edge

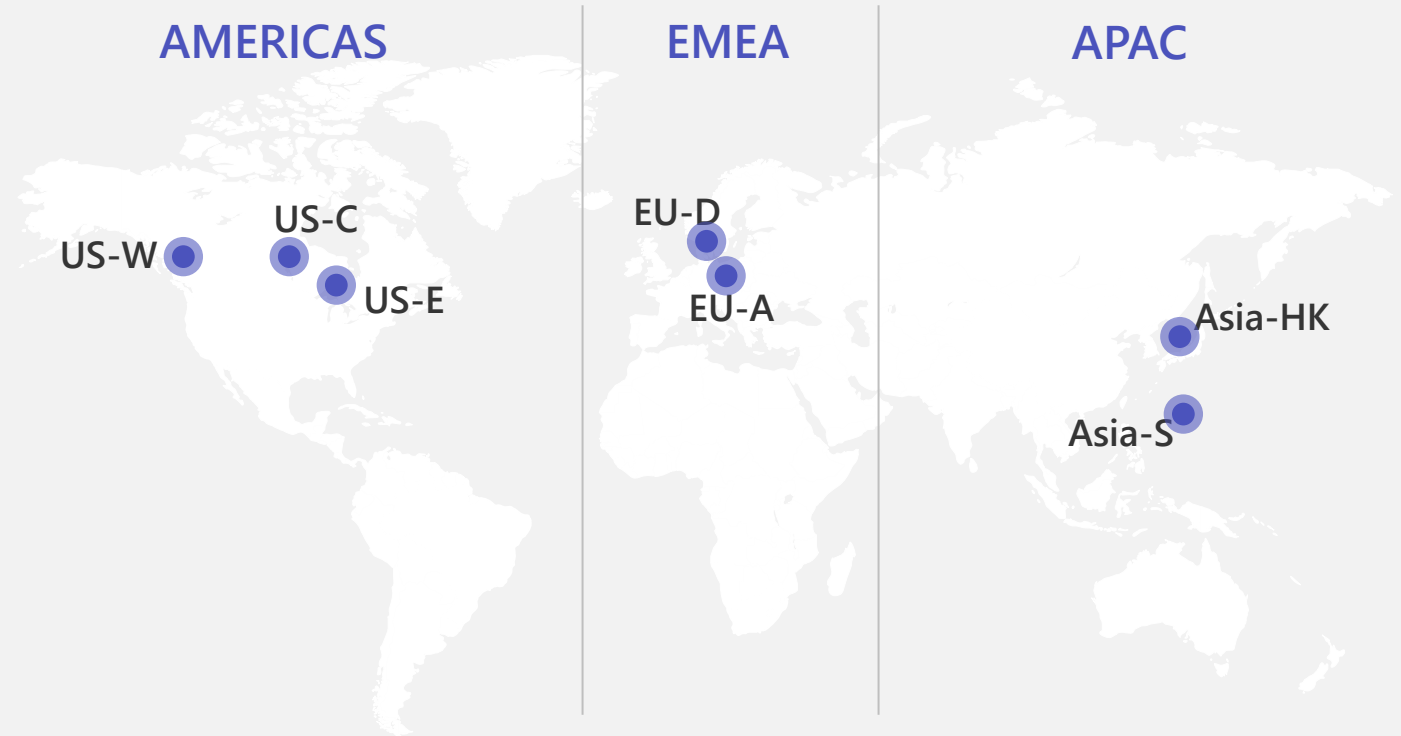
Powers enterprise-grade voice, video, and meetings and calls

Global, highly resilient infrastructure

Great audio, video & sharing quality over Wi-Fi & cellular networks

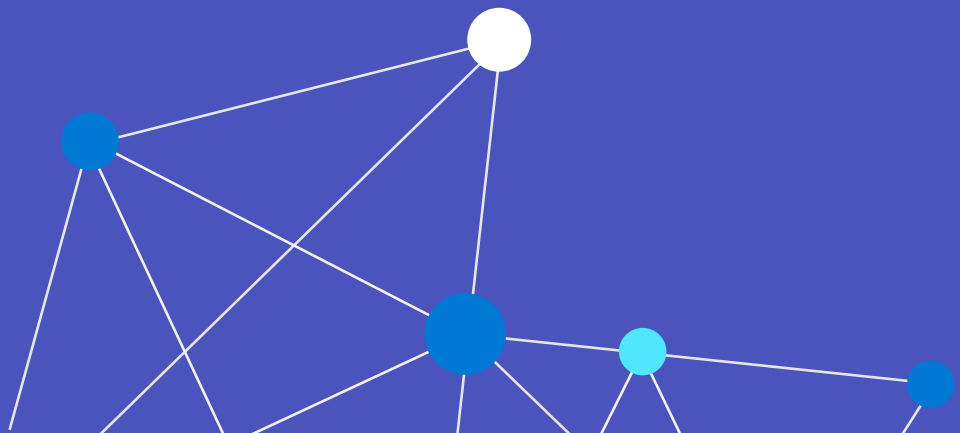
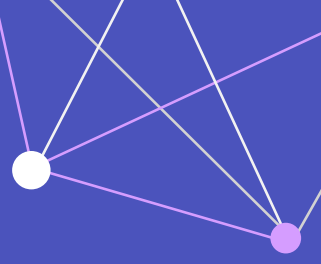
Maintenance and upgrades with minimal disruption

Operated by our engineering team





# Teams Devices





# Microsoft Teams Devices

Work how you want, where you want



## Access intelligent communications

Smarter and faster ways to connect and collaborate with your devices

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## Purpose-built

Devices optimized for your spaces and work styles

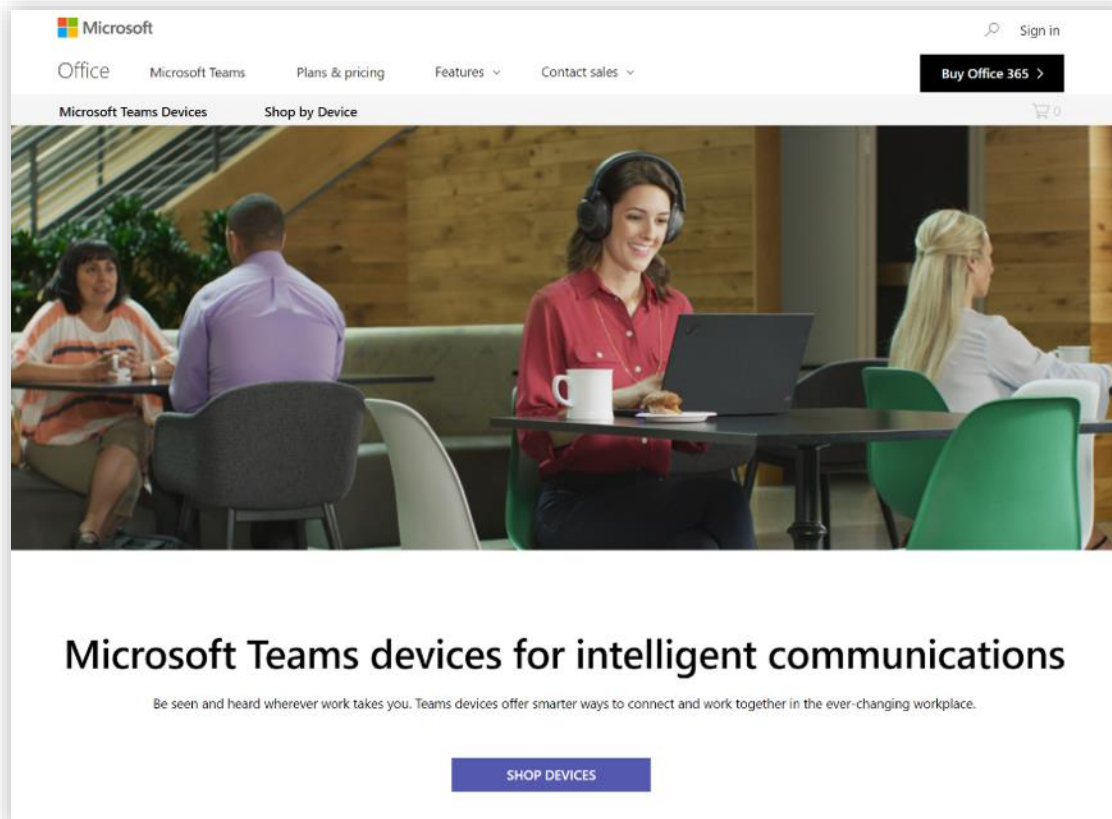
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## Work with confidence

Certified devices, with high quality video and audio, enterprise-grade security, and easy set up and management

# Microsoft Certified Devices



[aka.ms/teamsdevices](https://aka.ms/teamsdevices)



Closer integration with Microsoft Teams

Integrated Teams notifications

Optimized for voice skills in Microsoft Teams



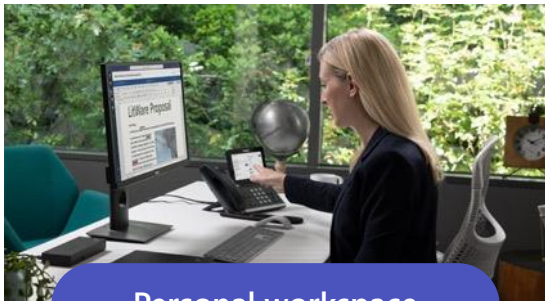
Tested for highest quality audio & video

Supported by Microsoft and our partners

Millions of devices shipping each year

Microsoft Teams Certification carries forward

# Microsoft Teams devices provide choice and versatility to meet the needs of every modern professional



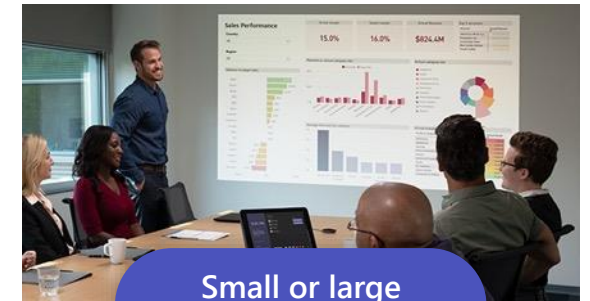
Personal workspace



Mobile workspace



Shared collaboration spaces



Small or large  
conference rooms

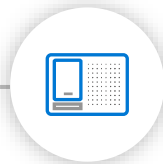
## Personal devices



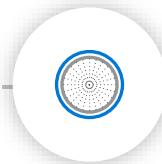
Headset



Desk  
phone



Mobile phone  
station



Speaker  
puck



Mobile  
phone

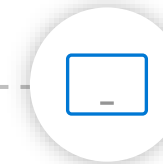
## Shared devices



Conference  
Room Phone



Microsoft Teams  
Rooms



Interactive  
whiteboard

## The foundations




Microsoft Graph

Microsoft AI

Cortana





Bring the Microsoft Teams experience to every meeting



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Transform your  
meeting rooms with  
Teams



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Make any space a  
Teams meeting place



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Easy to deploy,  
simple to manage



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Connect with hardware  
and software



# Transform your meeting rooms with Teams



Teams  
feature set



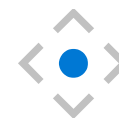
One-touch  
join



Make a  
phone call



Share with  
remote participants



Center of  
room control





## Make any space a Microsoft Teams meeting place



Anyone, anywhere,  
any device



Customized  
Teams Rooms  
app



Scales to all  
room sizes



Add an HD audio/video  
experience to your  
meeting rooms



**Easy to deploy, simple to manage**



**Windows  
10 device**



**Universal app, managed  
through existing tools**



**Low  
training effort**



A center of room touch controller lets you  
manage a Microsoft Teams meeting end to end  
**Microsoft Teams Rooms hardware and software**



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On the familiar Microsoft  
Teams app, built for  
Windows 10

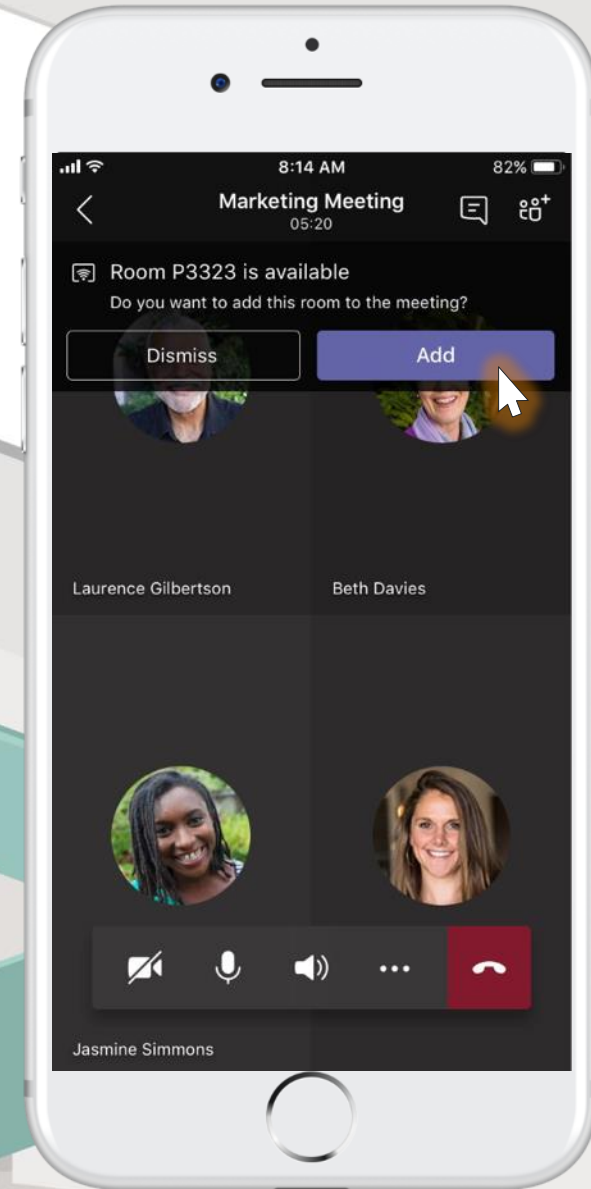


Connects with displays  
and projectors, cameras  
and speakers



Add an HD audio/video  
experience to your  
meeting rooms

# Proximity based meeting join



# Companion experiences

Connect personal and meeting-room devices to share content and control the meeting



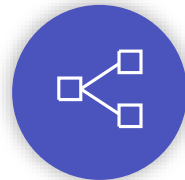
Check in and join in content-only mode

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Share live videos, photos, or the screen from your mobile device

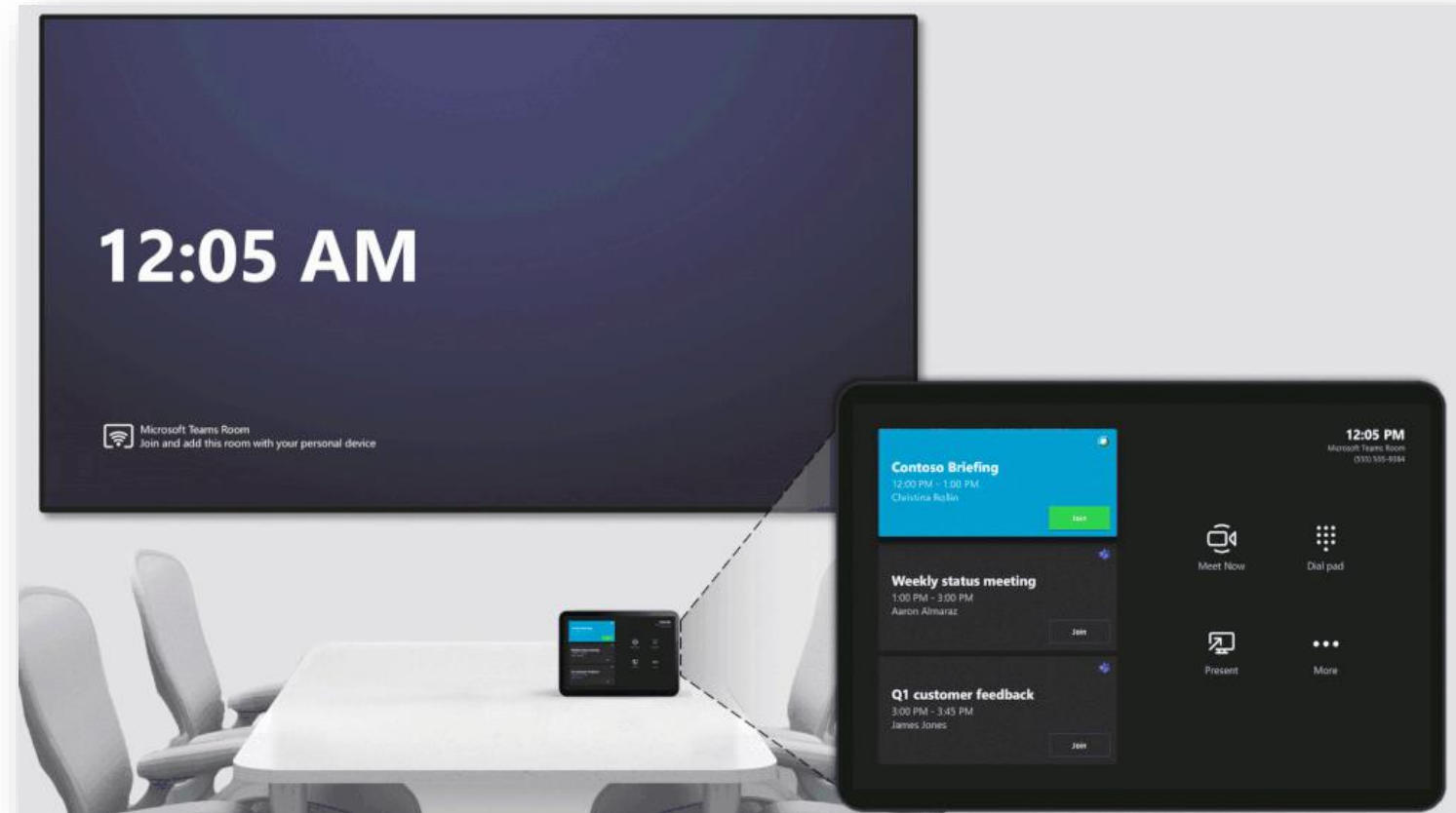
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Maintain a consistent experience in Teams across devices

# Direct Guest Join

Join Cisco, Zoom, and other third-party meetings directly from Microsoft Teams Rooms.





# Microsoft Teams Rooms with touch/ink

Add a touch/ink display to any Microsoft Teams Room to enable multi-user, shared whiteboarding in any Teams meeting, across all Teams devices.

Good things come in pairs

Microsoft  
Teams Rooms

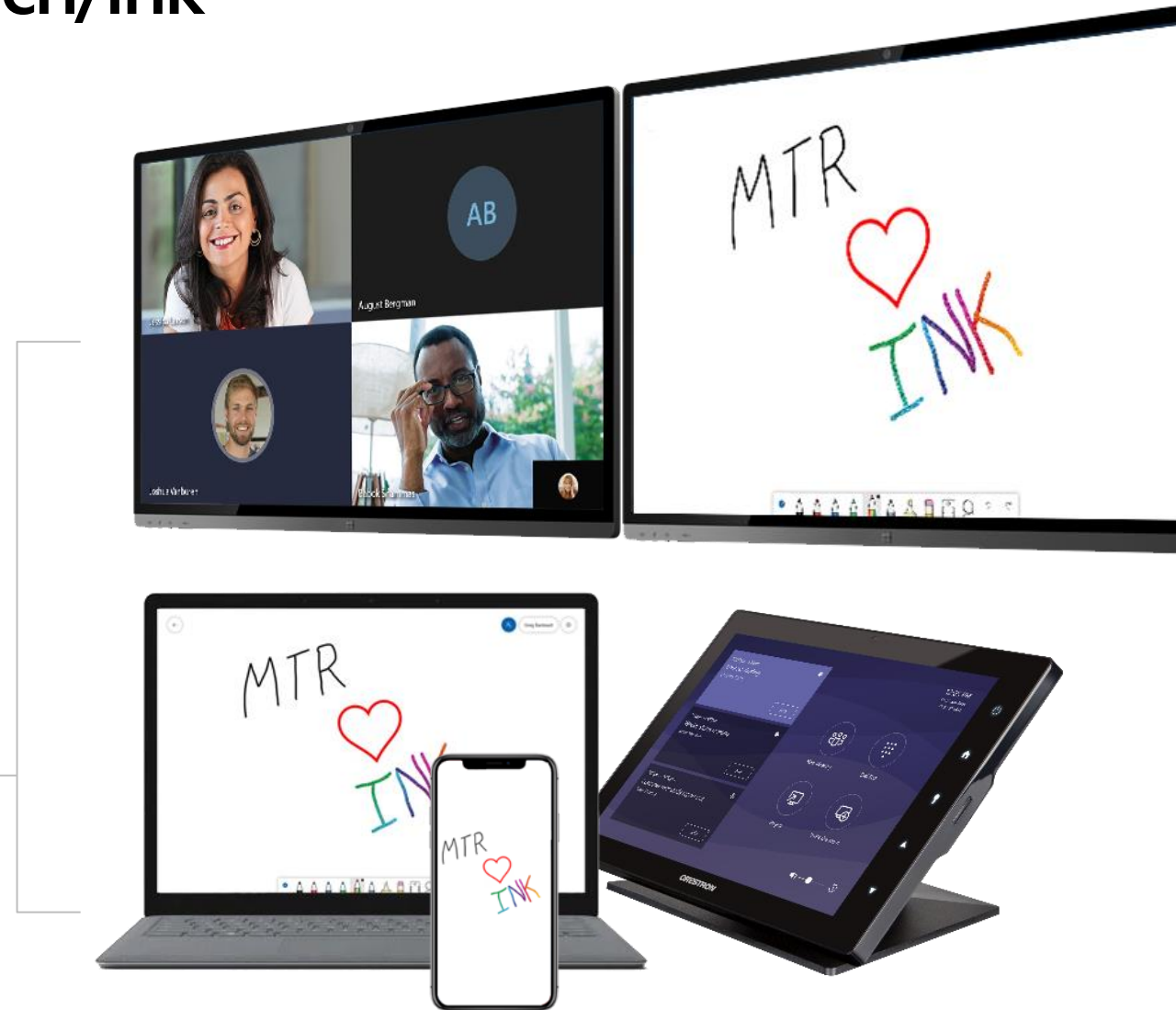


Touch Display

Communication

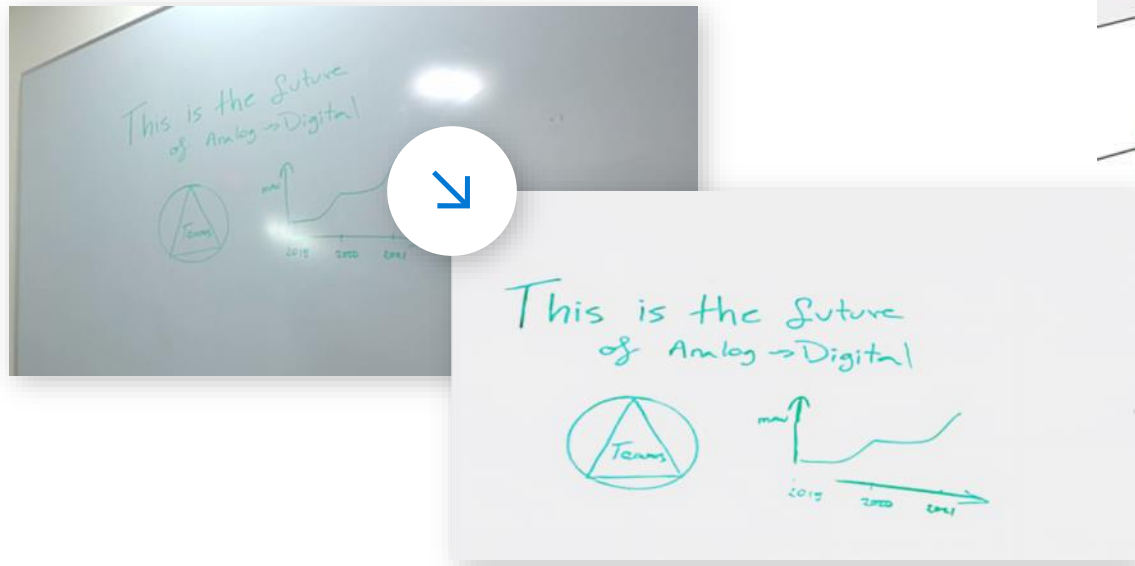


Collaboration



# Content cameras and intelligent capture

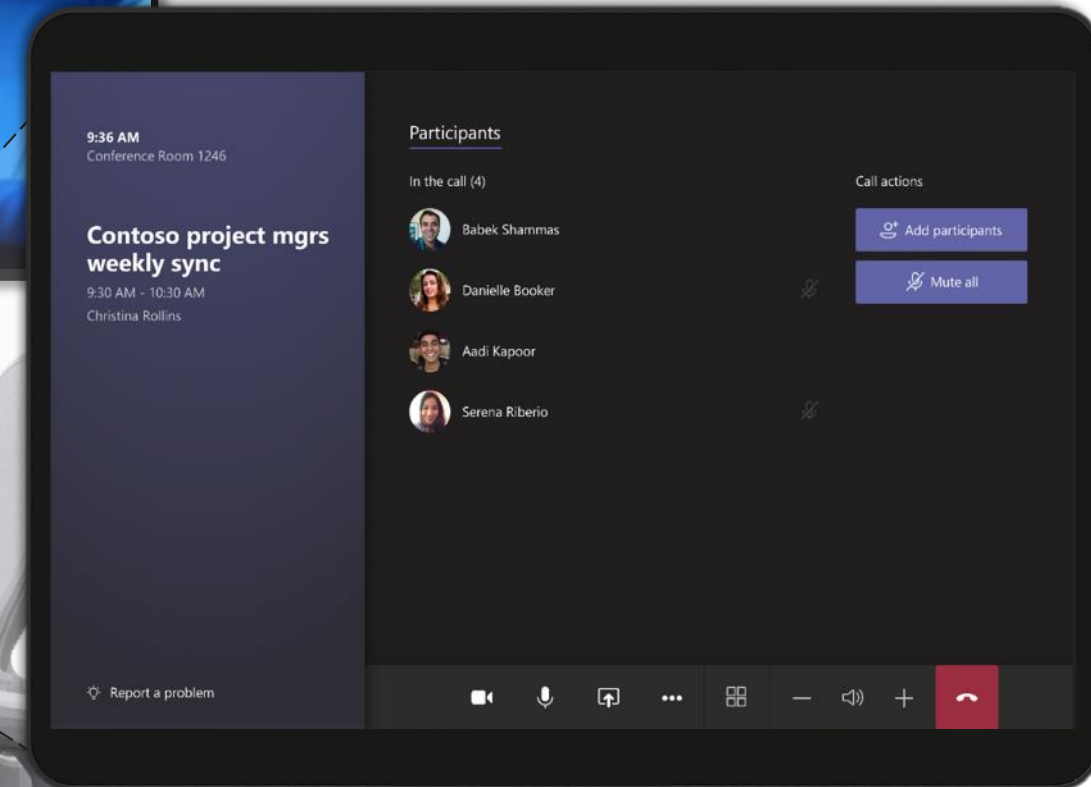
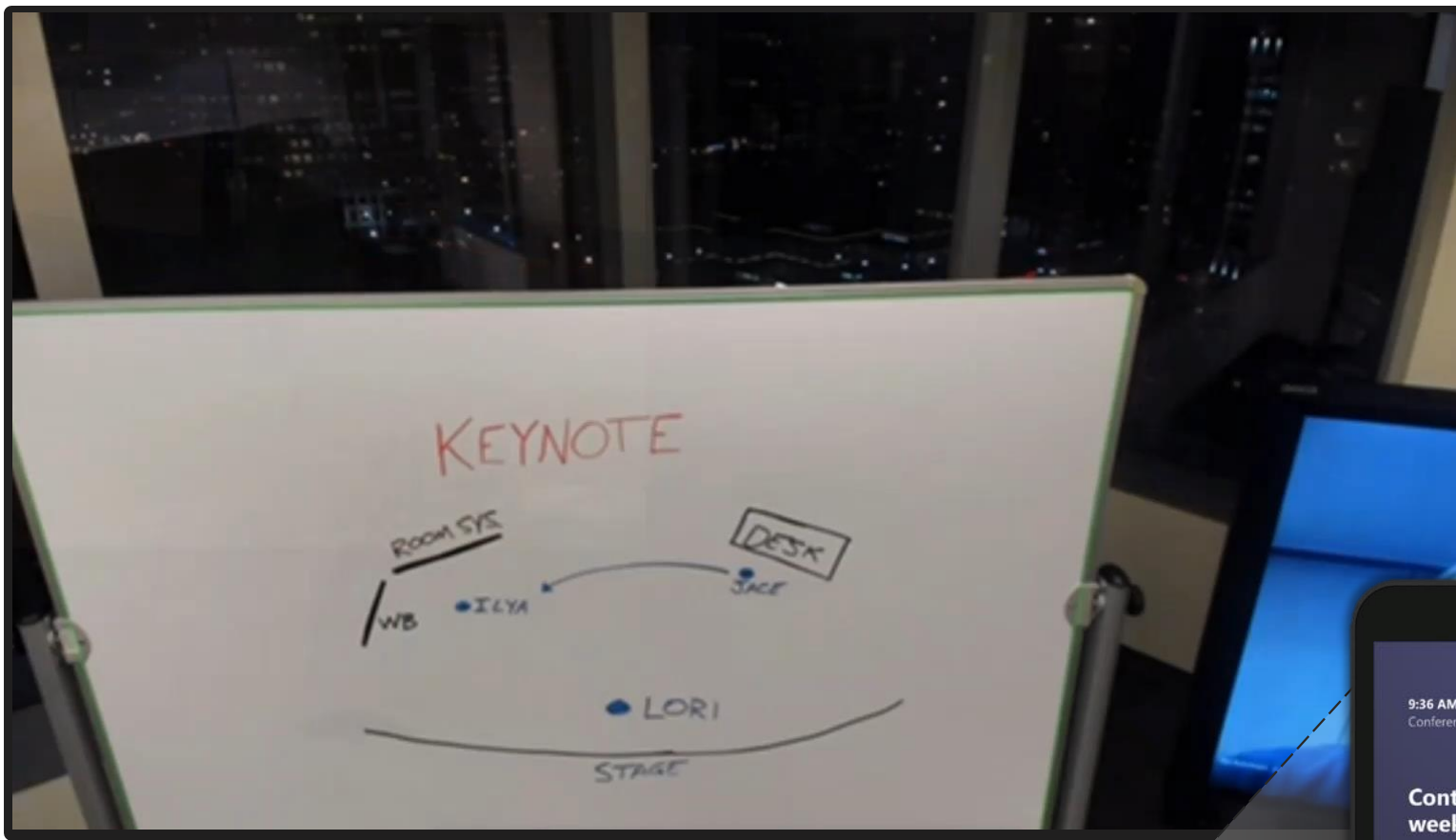
Add a content camera to any Microsoft Teams Room to share an intelligent, augmented whiteboard view into Teams meetings.



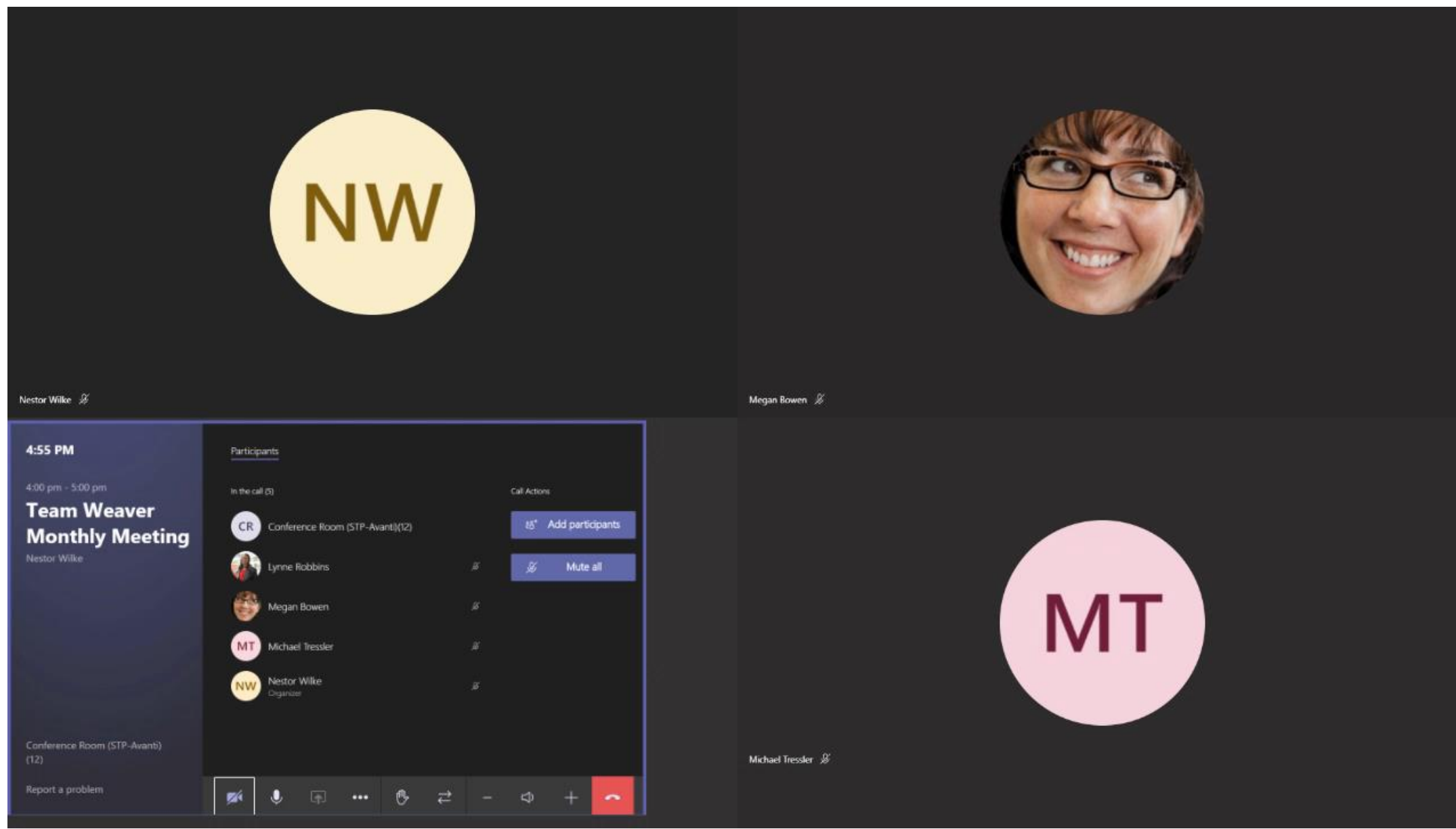
# Content Capture

AKA "Magic Whiteboard"

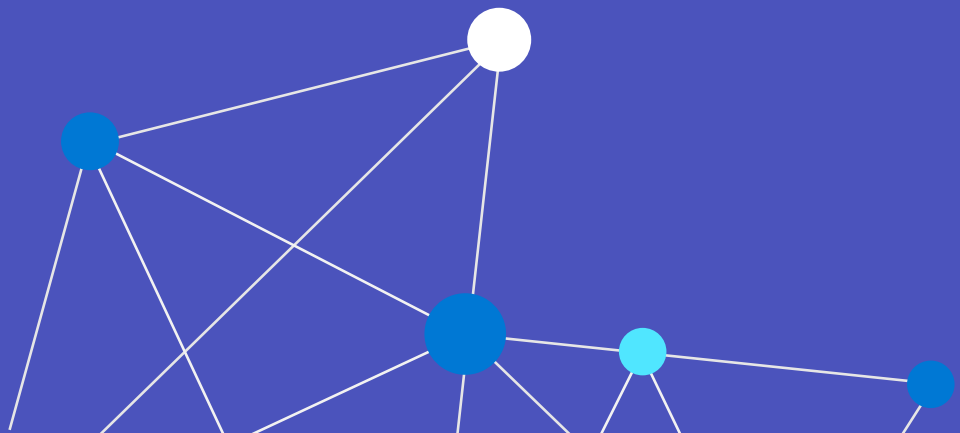
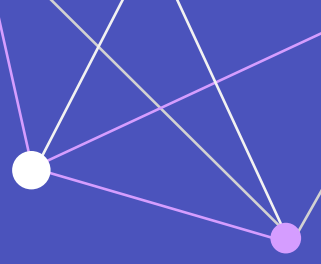
Teams AI can straighten, clean and identify content on your whiteboard drawings



# Raise Hand



# Requirements







# Physical Requirements



Certified Microsoft Teams Rooms system

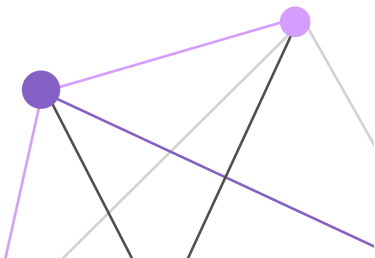
Firmware updated on certified peripherals

Wired Gb connection in the room. Ethernet cable of appropriate length

USB Extenders, if necessary

Up to two 1080p displays with HDMI connections. HDMI cables of appropriate length.

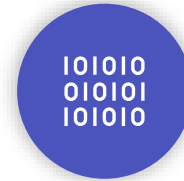
USB Keyboard and Mouse







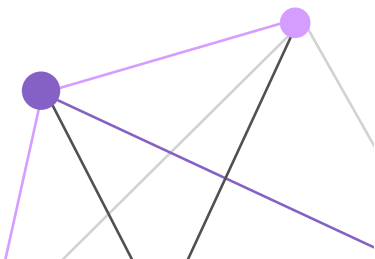
# Software Requirements



Microsoft Teams and/or Skype for Business Online and/or Skype for Business 2015+

If using on-premises Skype for Business, the Enterprise Trusted Root certificate needs to be installed.

Exchange Online or On-Premises





# Network Requirements



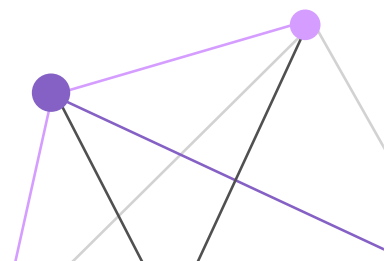
Access to a server that can provide an IP address using DHCP.

Ports configured as described in Port and protocol requirements for servers for on-premise Skype for Business Server implementations

Office 365 URLs and IP address ranges for Microsoft Teams/Skype for Business Online implementations.

Wired network connection to assure you will have reliable connectivity.

Proxy bypass is strongly recommended for real-time traffic



# Licensing Teams Rooms

The Meeting Room SKU is designed to address the licensing requirements for a room system while delivering a lower cost than a standard end user license.

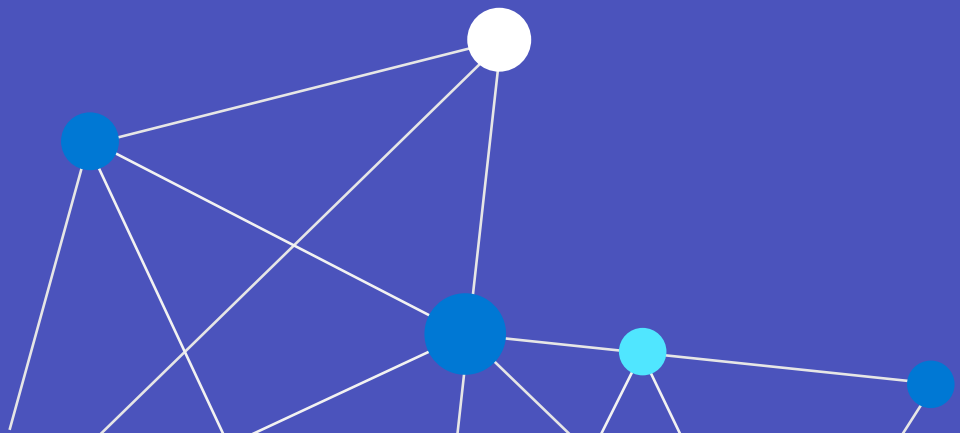
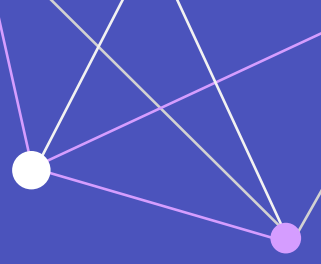
You may need to add a calling plan license to permit outbound calling or utilize direct routing.

Meeting Room \$15/device/month	
Skype for Business	
Microsoft Teams	
Phone System	
Audio Conferencing	 <sup>1</sup>
Microsoft Intune	
Worldwide availability	 <sup>2</sup>
Channel availability	EA, EAS, CSP, Web Direct

<sup>1</sup> Availability and included minutes may vary by region. To verify service availability, refer to <https://docs.microsoft.com/en-us/microsoftteams/country-and-region-availability-for-audio-conferencing-and-calling-plans/>. Consumption charges may apply for additional services, such as toll-free, international minutes for domestic plans, etc. Customers can disable these features to avoid additional billing

<sup>2</sup> Not available in sovereign clouds

# Roles





# System Integrator Role

## Assessment Tasks

- Validate rooms
- Spec system
- Ordering

## Project Management

- Keep things moving Delivery

## Deployment

- Installation of equipment and getting everything running

## Education

- Training the customer on how to use their new MTR rooms

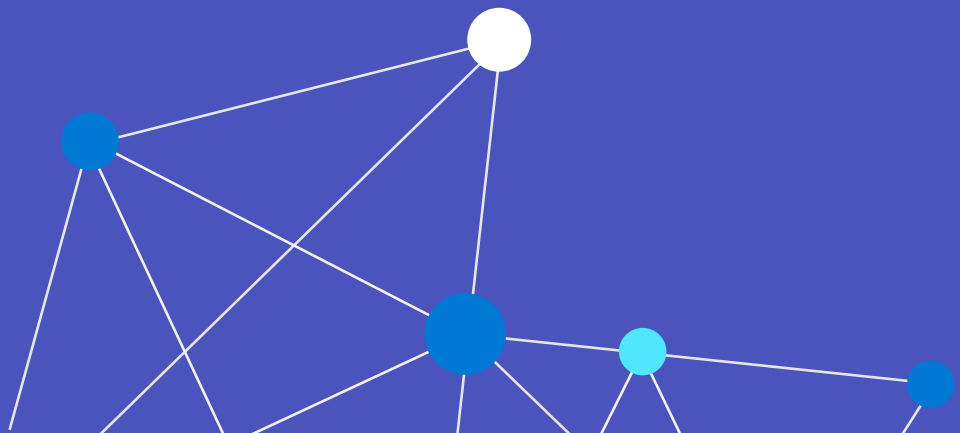
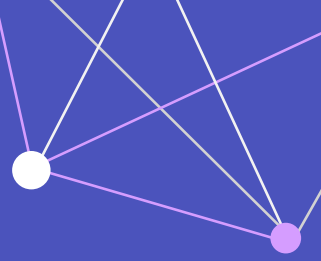


# Customer Roles

- AV - Someone who knows about existing conference room configurations, displays used, etc.
- Skype/Teams - Someone who is in the process of doing SfB to Teams migration and understands corporate infrastructure for the SfB Online / Teams deployment, licensing, etc.
- Telcom - Someone who understands the corporate needs and regulations around telecommunications requirements in conference rooms
- Security – Someone responsible for Windows 10 firewall/antivirus, threat protection, etc.
- Network - Someone with intimate knowledge of the network topology, performance, and capacity to handle video workloads on both wired (rooms) and wireless (clients) subnets during peak usage times for the buildings where MTR's will be installed
- Azure Active Directory - Someone who can access the portal.office.com and portal.azure.com
- O365 admin– Someone with permission to add licenses and create room accounts
- Facilities (can represent physical modifications that need to happen - hang & bang)



# Summary





Microsoft Teams is the hub for collaboration

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End users are unhappy with current meeting solutions

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Microsoft Teams provides a simple and consistent meeting experience across multiple devices and environments

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Microsoft Teams Rooms simplifies and enhances the meeting experience



Questions?

