

Agenda



Understanding video communications

Managing video conferencing technologies

Video conferencing at Microsoft

Managing devices

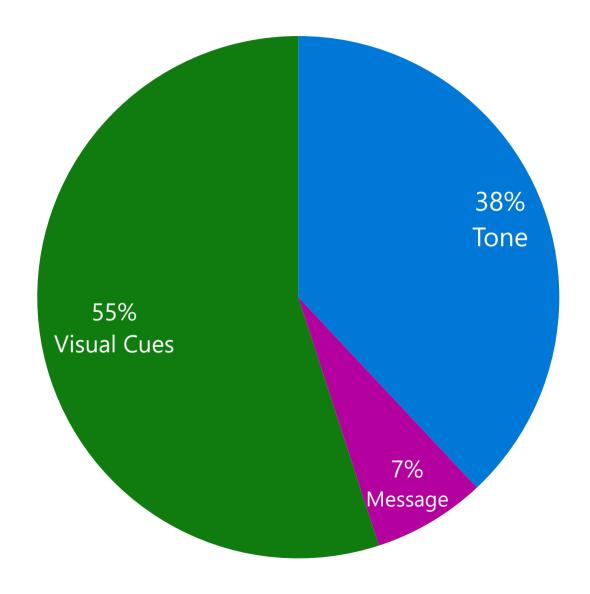
Best practices

Understanding video communications

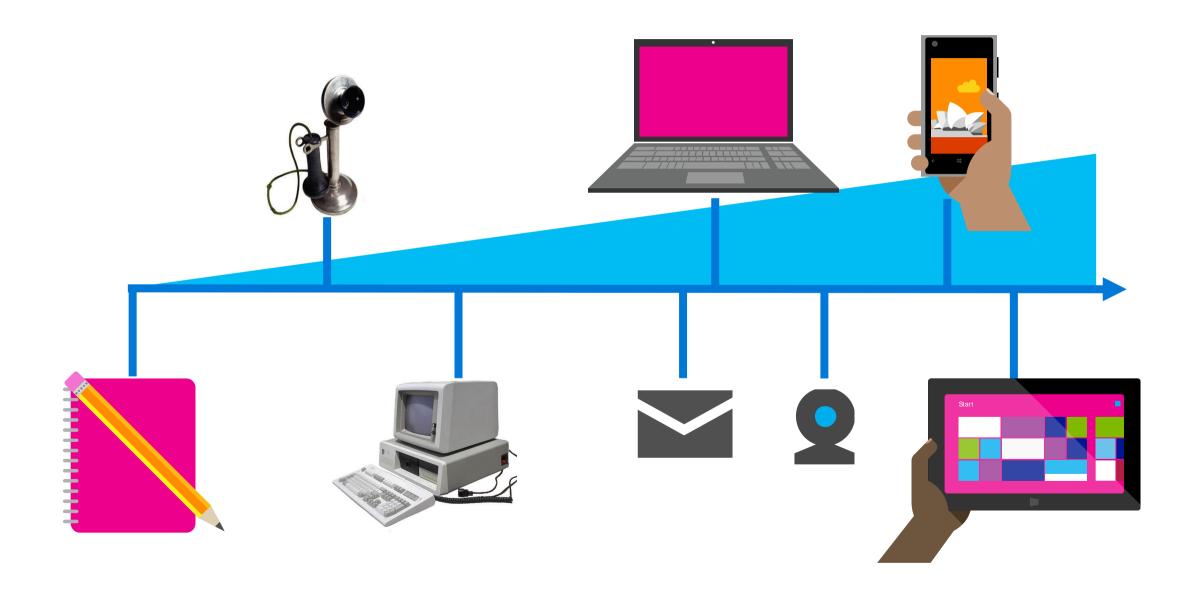


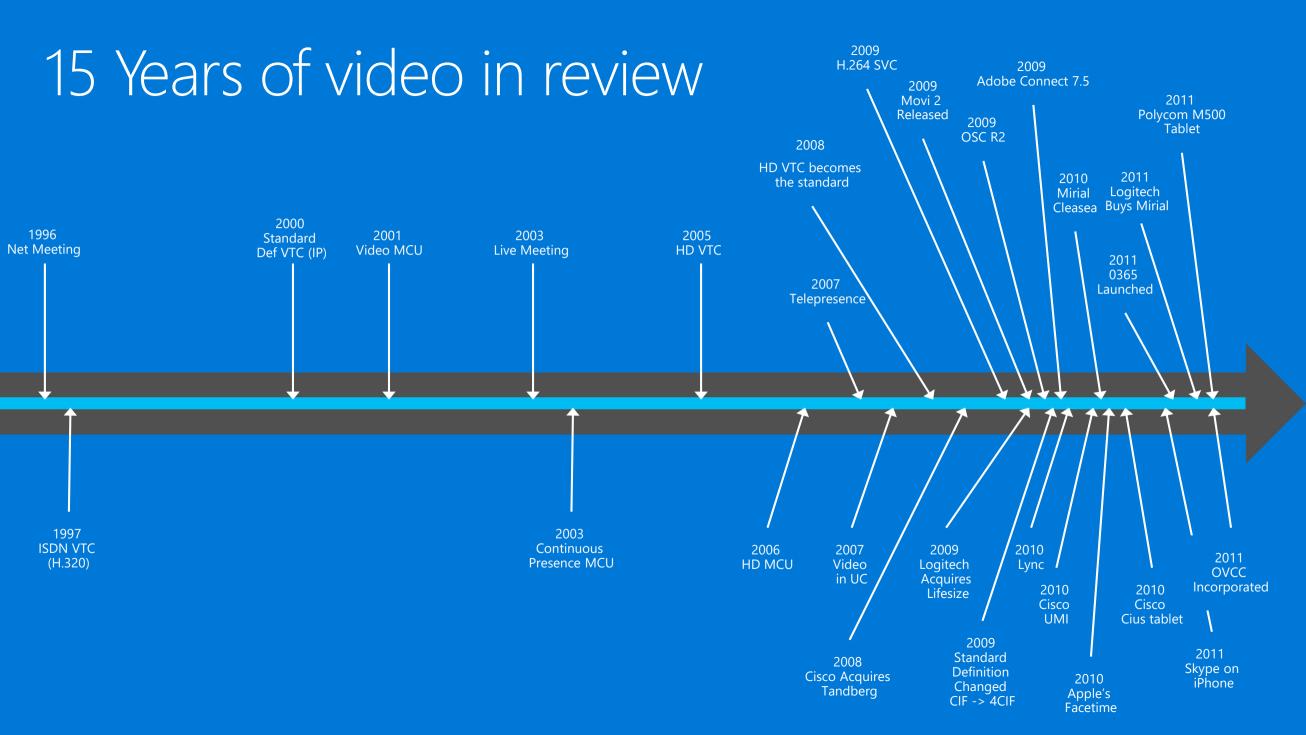
Communications is visual
History of communication
Fifteen years of video in review
Protocol soup
SfB/Lync video explained

Communication is visual



History of communication

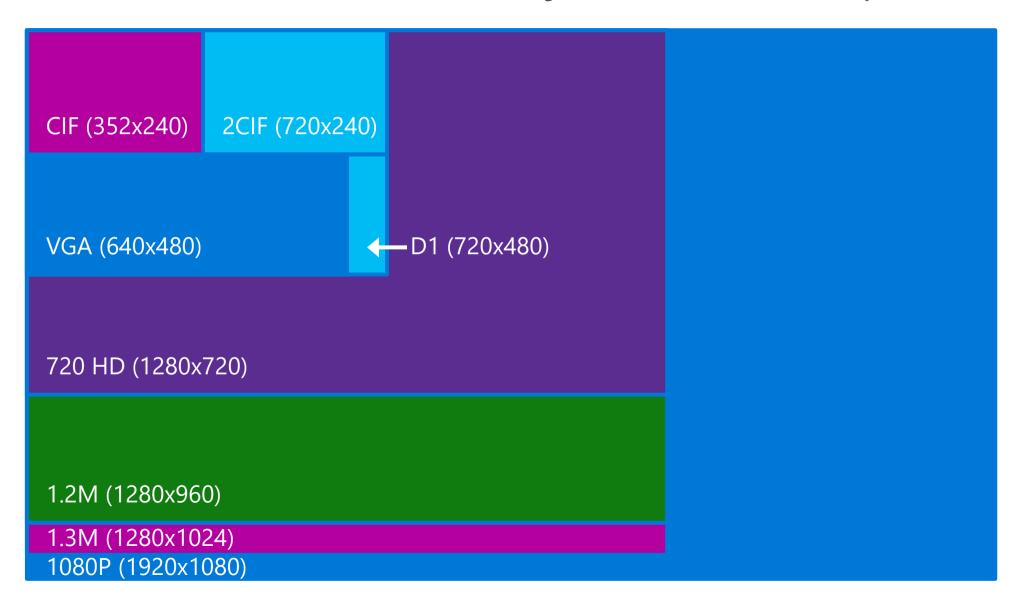




Protocol soup



Skype for Business (SfB)/Lync video explained



Summary

55% of effective communication relies on reading visual cues during conversation. At Microsoft, we want effective communication within our organization. We want that 55% included in as many of our communication methods as possible.

Managing video conferencing technologies



Video

Call flow

SfB/Lync interoperability

Video conferencing

Devices and meeting room solutions

Video bandwidth

Video in SfB/Lync 2013



People anchor the experience - promoting the human experience

Great P2P

Up to 1080p

I see what I want on my screen (shrink/stretch)

Gallery View:

Horizontal is natural

All attendees are present

Smart Framing

Focus on the conversation, not the controls

You know who you interact with:

Names of participants

Active speaker

Joining/leaving animations

Roster

You are in control:

Video Preview

Video Pinning, Video Spotlight



One click

Starting a video call is compelling and easy



Video connection from Microsoft Office

Start a video call from any Office application Quick links, people card



Great views

Dynamic layouts - easily switch to what you want to see

See and Collaborate!



H.264 SVC Support

Higher quality, higher performance



Use video anywhere you need it

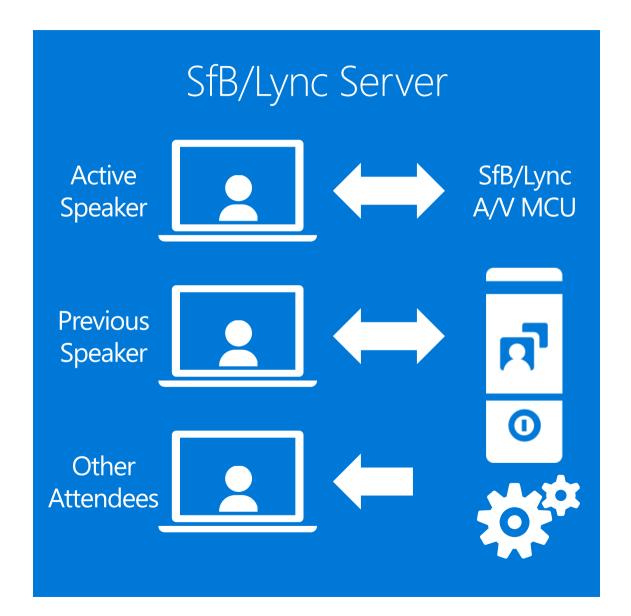
SfB/Lync 2013 Mobile clients support video over Wi-Fi and 3G/4G



Invite external contacts to your video conference

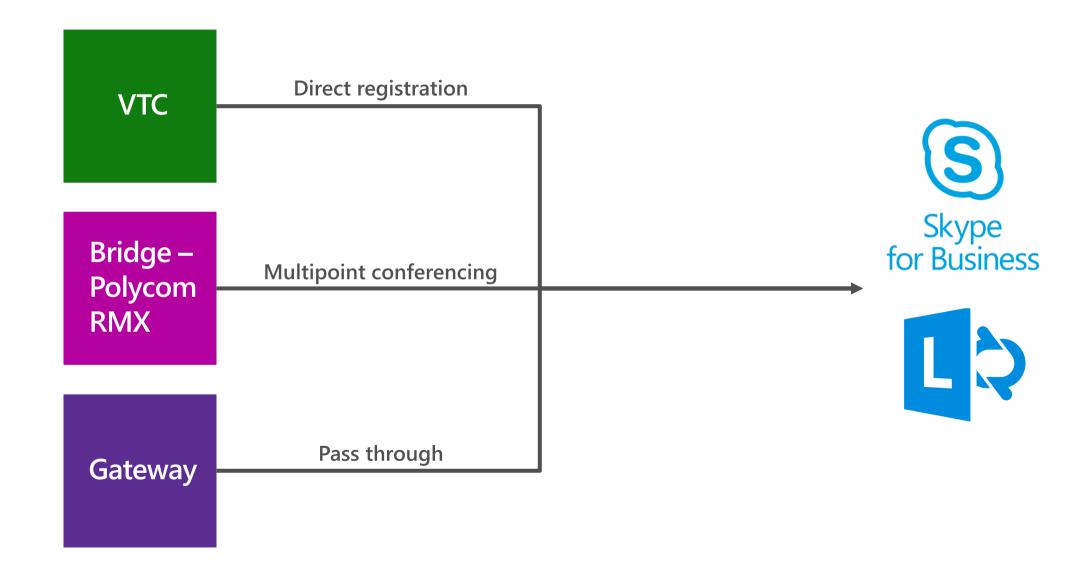
Join video conference from web browser using SfB/Lync Web App (LWA)

How SVC is different

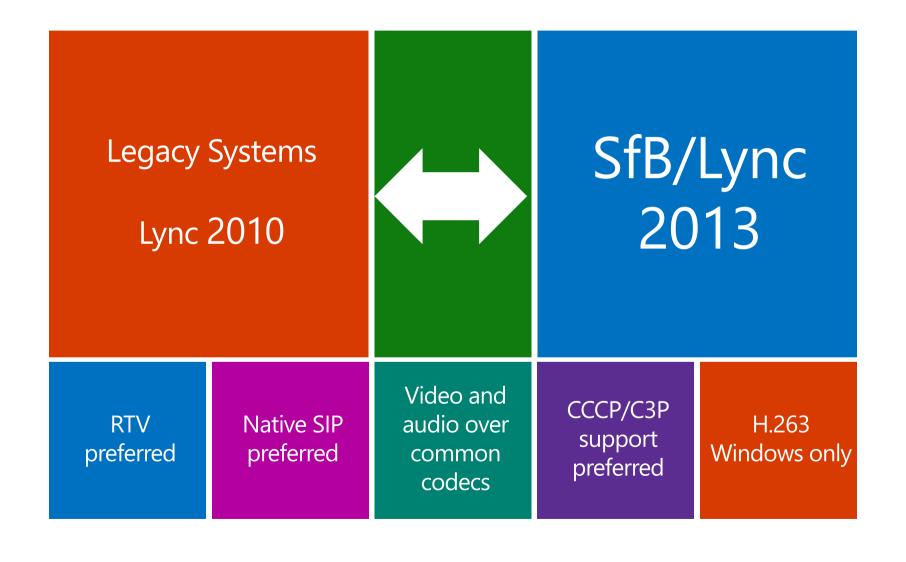




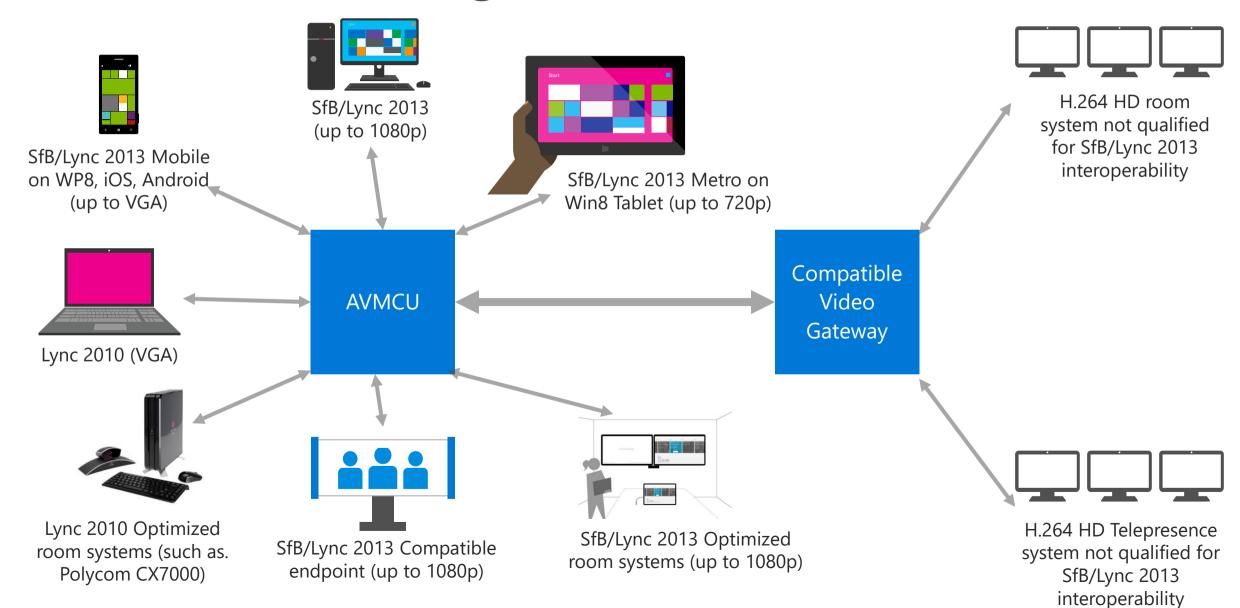
Call flow to SfB/Lync



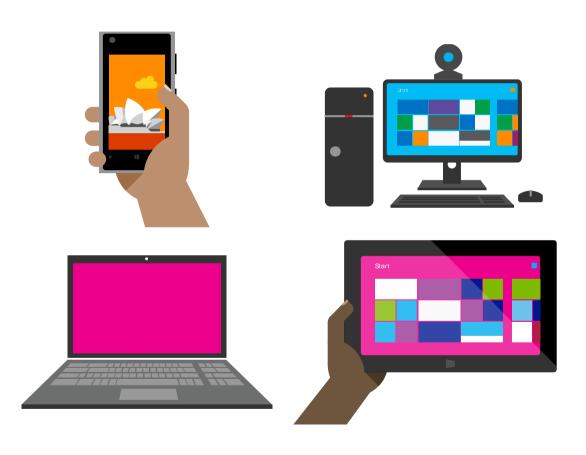
SfB/Lync interoperability



Video conferencing overview



Devices and room solution overview



End User Devices



Meeting Room Solutions

Video bandwidth recommendations

Quality	P2P or single view		Multi-view with five incoming videos	
	Bandwidth (kbps)	Resolution	Bandwidth (kbps)	Resolution
Minimum	100	320x180	420	180x180
Moderate quality	350	424x240	1000	240x240
Good quality	1500	1280x720	2500	360x360
Best (default setting)	Up to 4000	1920x1080	Up to 8000	Up to two 1080x1080

Controlling video bandwidth

Options available to control video bandwidth:

1. Call Admission Control (CAC)

CAC determines if there is sufficient network bandwidth to establish a real-time session of acceptable quality.

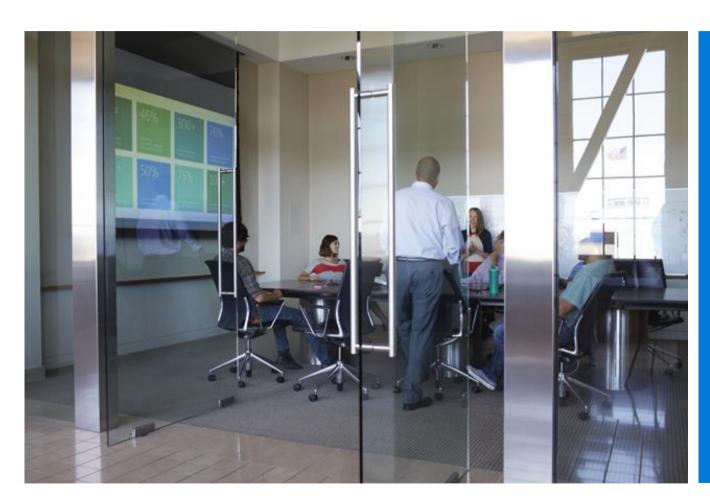
2. Conferencing Policies

Enable/disable multiple video streams (Audio/Video Policy), enable participants to join with multiple video streams (Participant Policy).

Summary

Follow Microsoft recommended configuration and settings in order to effectively manage video conference calls.

Video conferencing at Microsoft



Microsoft SfB/Lync environment

Vision & Mission

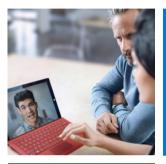
Maturity of video

Dedicated network telepresence solution

Video at Microsoft

Microsoft SfB/Lync environment

200,000+ active SfB/Lync users



9 million+ audio sessions per month 4
data centers
with
SfB/Lync
infrastructure

980,000 monthly SfB/Lync meetings



107 countries

568 buildings

8data centers

131,400 Enterprise Voice users 16,000+ federated companies

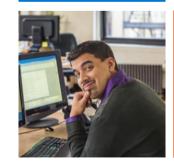


120 Million monthly instant messages



89% meetings using app sharing





44,000 monthly peer-to-peer video calls 50% remote SfB/Lync usage



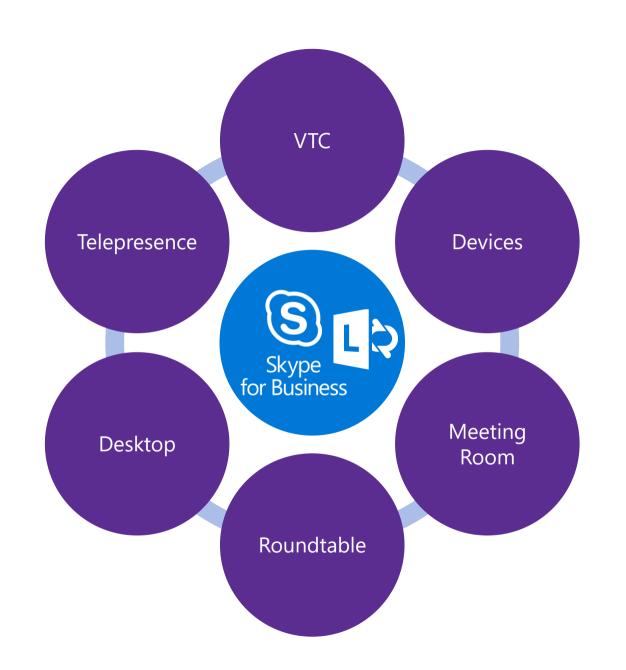
90,000 unique active SfB/Lync mobile users

10,000 + conference rooms

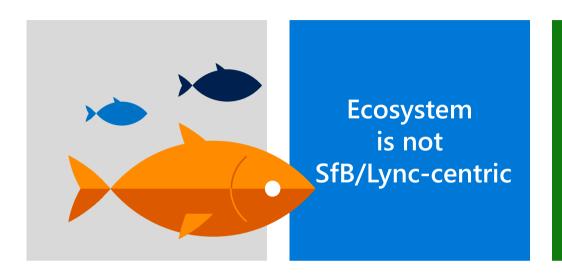


Mission

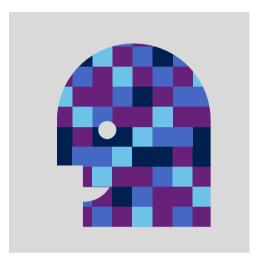
Develop a video ecosystem and service that enables real-time collaboration on any device, anytime, anywhere.



Areas of difficulty at the beginning



Full potential not being used



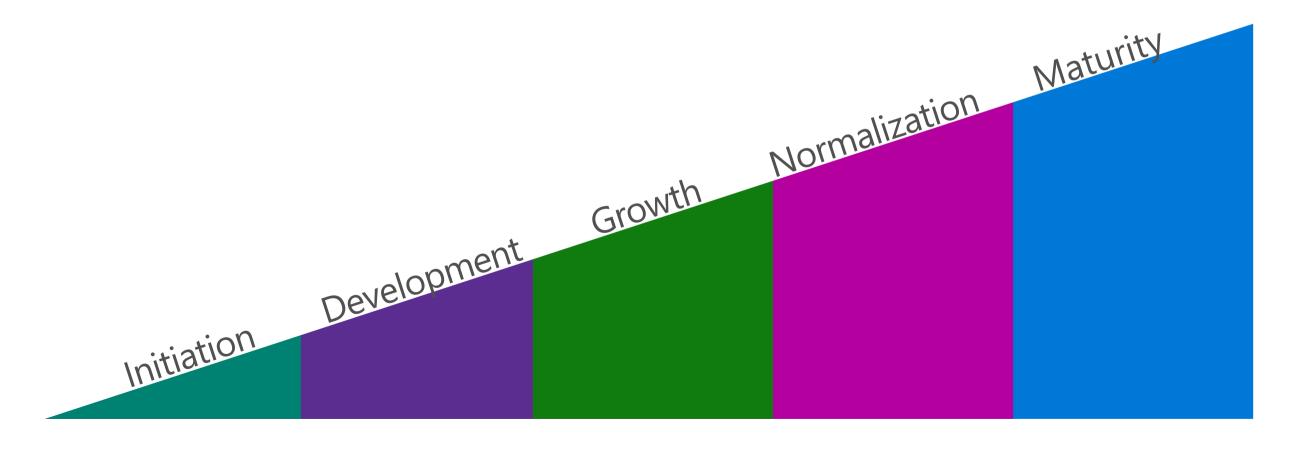
Disjointed technologies



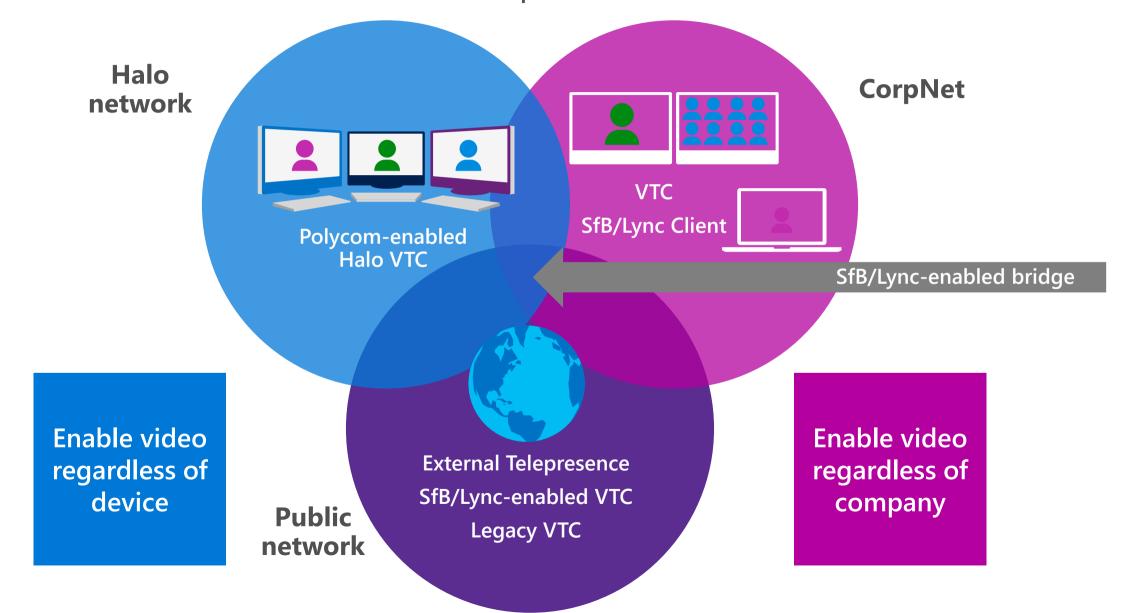
Users want collaborative video to simply work

Too complicated

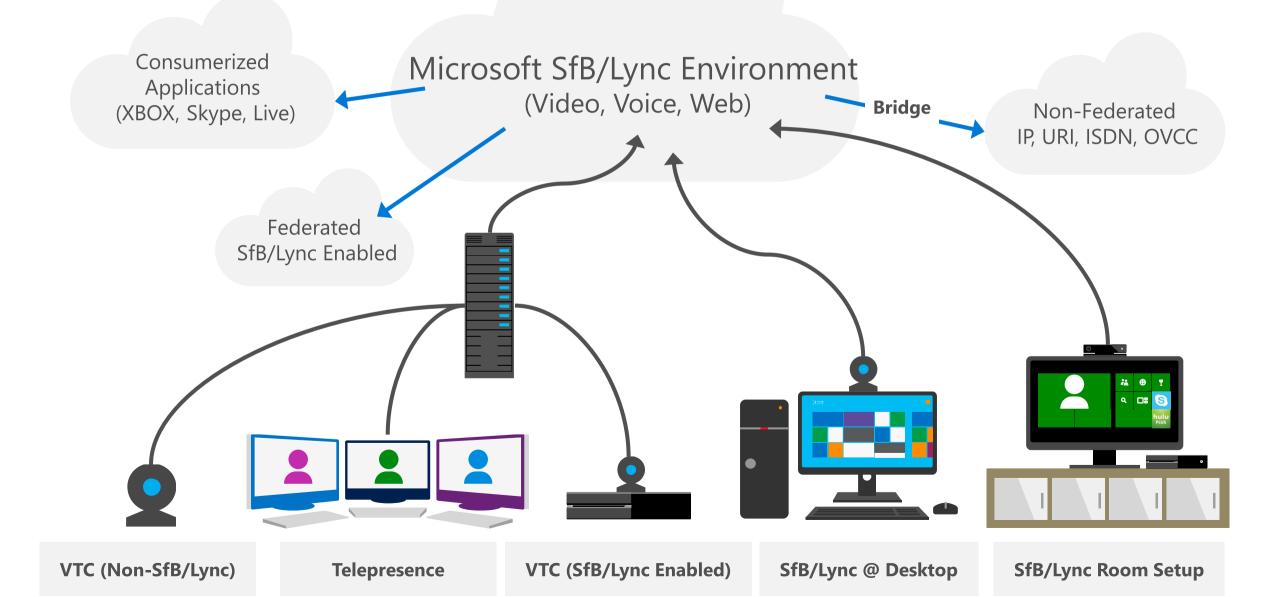
Maturity of video



Dedicated network telepresence solution



Video at Microsoft



Summary

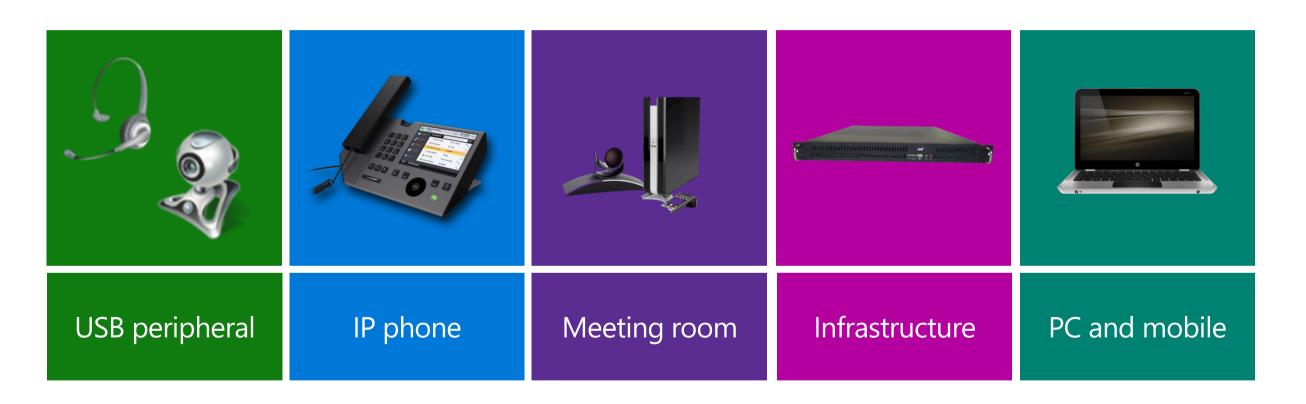
With a mission to develop a video ecosystem and service that enables real-time collaboration on any device, anytime, anywhere, our vision is that by the year 2016, video would be available for every meeting.

Managing devices



SfB/Lync device categories
Device program
Device selection
Providing user direction
SfB/Lync room system
program

SfB/Lync device categories



Device program

SfB/Lync logo program

SfB/Lync functions Audio/video requirements Qualified device

IT-approved devices

Subjective

Objective Social

Construction

Cultural

Functionality

Comfort

Compatibility

Fidelity

Price

Duplication

Device manufacturer

Headset

Cameras

Speakerphone

Device selection

USB Audio & Video Devices \$200-300 \$100+ \$150-200 \$850+







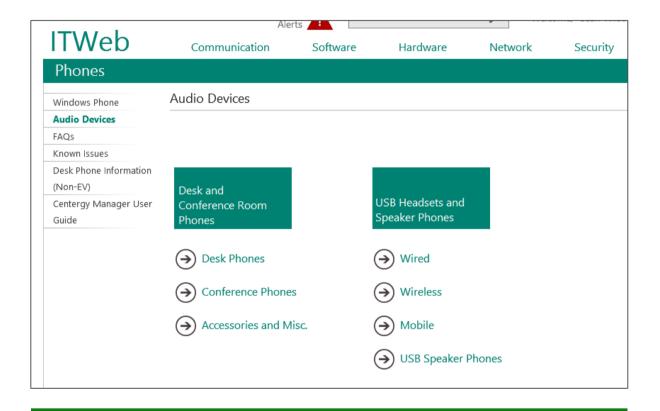




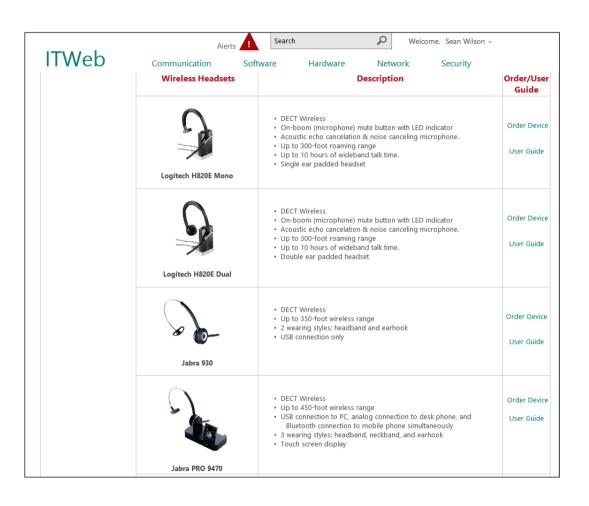




Providing user direction



Provide users access to the information they need



http://itweb/v7/phones/Pages/Audio-Devices.aspx

The SfB/Lync room system program



Proof of concept

- Provisioning
- Remote management
- Monitoring



Global field pilot

- Refine support
- User experience
- Productivity improvement



Official rollout

- Service onboarding
- Global support
- Standards

Microsoft environment

- > 10,000+ conference rooms globally
- > 500+ offices
- ➤ 100+ countries
- Multiple business units



Manageable





Supportable



Measurable

Summary

Your organization should have an approved device program to ensure that the devices used in your video conferencing implementation are fully compatible with SfB/Lync. The device program also should prevent quality issues pertaining to unsupported or problematic equipment.

Microsoft IT best practices



Microsoft IT best practices

Microsoft IT best practices

What	Understand the needs of your users and customers.	
Why	Reduces complexities and improves overall end user experience.	
How	Develop an IT-approved list of devices. Leverage the SfB/Lync Logo program. Provide user guidance on devices.	



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