

Cisco Connect

Praha, hotel Clarion
10. – 11. dubna 2013

Technical Collaboration

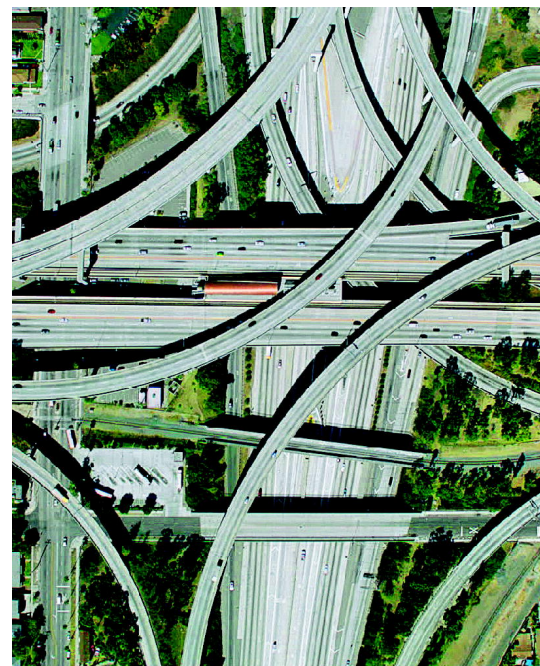
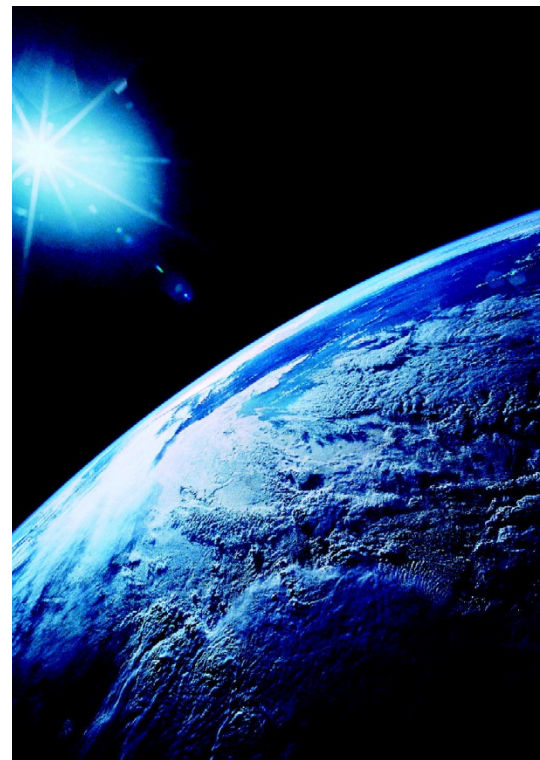
COL / L2 - L3

Jiří Martan, CCIE #5871, jmartan@cisco.com

Jan Sýkora, CCIE #7398, ivsykora@cisco.com

Tomáš Rott, jirott@cisco.com

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Cisco Connect

Program

Čas	Téma	Přednášející
09:30 – 10:30	Novinky v Cisco Collaboration	Jaroslav Martan
10:45 – 11:45	Nástroje pro management multimediální sítě (Medianet)	Jiří Rott
	oběd	
13:45 – 13:45	Architektura collaboration řešení - Jabber Design - Integrace Cisco UC a MS OCS/Lync	Jaroslav Martan Ivan Sýkora
14:00 - ???	Architektura – whiteboard (jam) session - Edge design - SIP trunk - Video – jednotný call control - Trusted Relay Point (TRP) a L3 VPN	Jaroslav Martan Jiří Rott Jaroslav Martan Jaroslav Martan

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Učtovinky v Cisco Collaboration

COL1 / 2

Jaroslav Martan, CCIE #5871, jmartan@cisco.com



agenda

Desktop video klient - DX600

WebEx OneTouch 2.0 - integrace TelePresence a WebEx

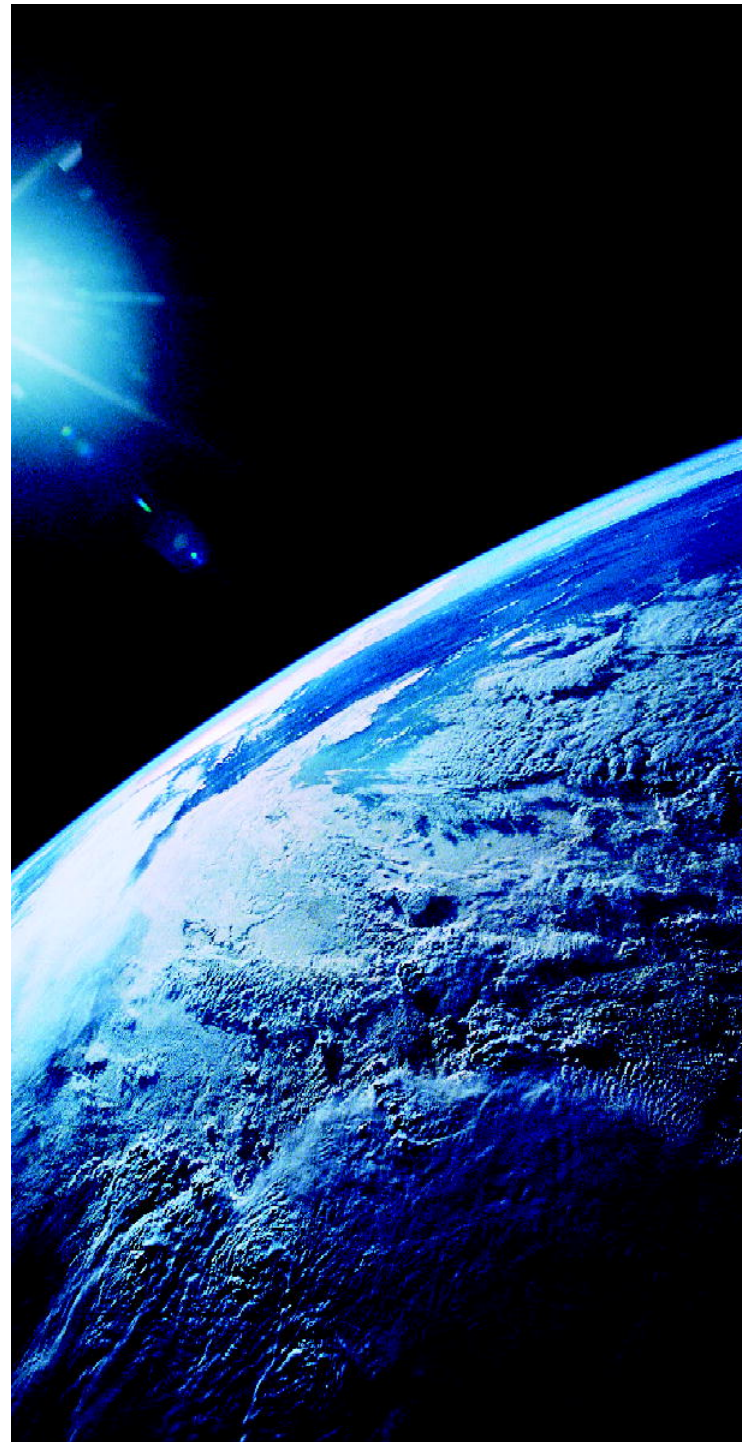
Aktualizace Jabber klientů pro desktop a mobilní platformy

Jabber SDK

UC integrace ve virtualizovaném desktopu - klient VXME

IX600

[http://www.cisco.com/en/US/
products/ps12959/index.html](http://www.cisco.com/en/US/products/ps12959/index.html)



Advanced Collaboration Demands a Multi-purpose Endpoint



High-quality voice, video
and conferencing

Real-time video, integrated presence
and viewing of shared documents

Access to corporate cloud services and
cloud apps

Intuitive touch screen navigation and
innovative personalization

Advanced Collaboration Demands a Multi-purpose Endpoint



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HD Video Communications Experience



TelePresence Interoperability

Market Leader in Videoconferencing
and Telepresence*

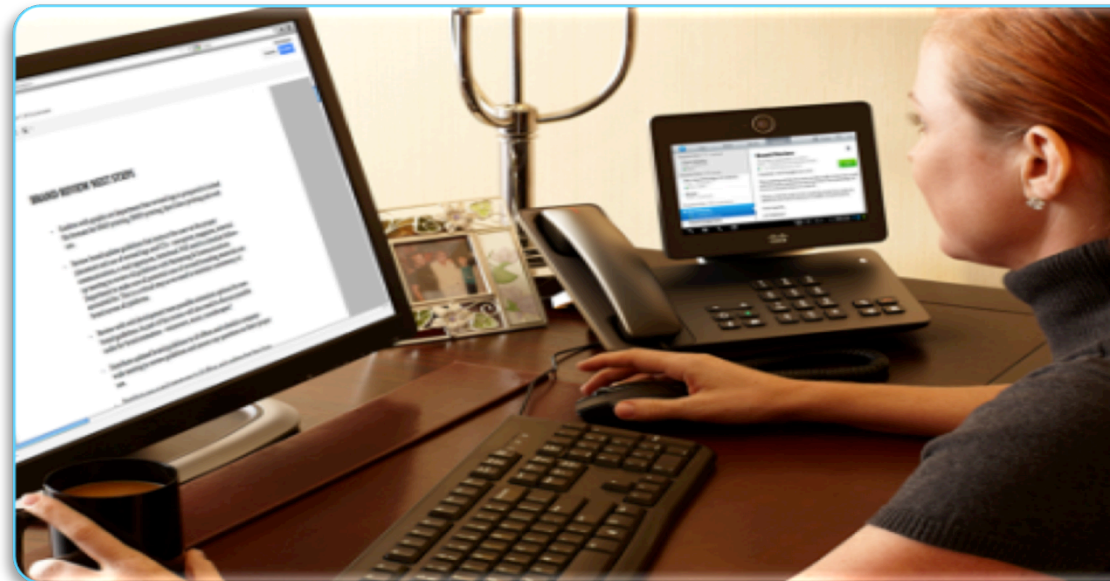
*Global Videoconferencing & Telepresence Endpoint Market, April 2012. Frost & Sullivan

HD Personal Desktop Video
for Like In-Person Experience

Up to 1080p | Easy as a Phone Call



Flexible Collaboration



Mirror and dual independent display

Resolution scales up to 1920 X 1200

Dual independent camera

Integration Accelerates Collaborative Experience

ent contacts
n presence
status

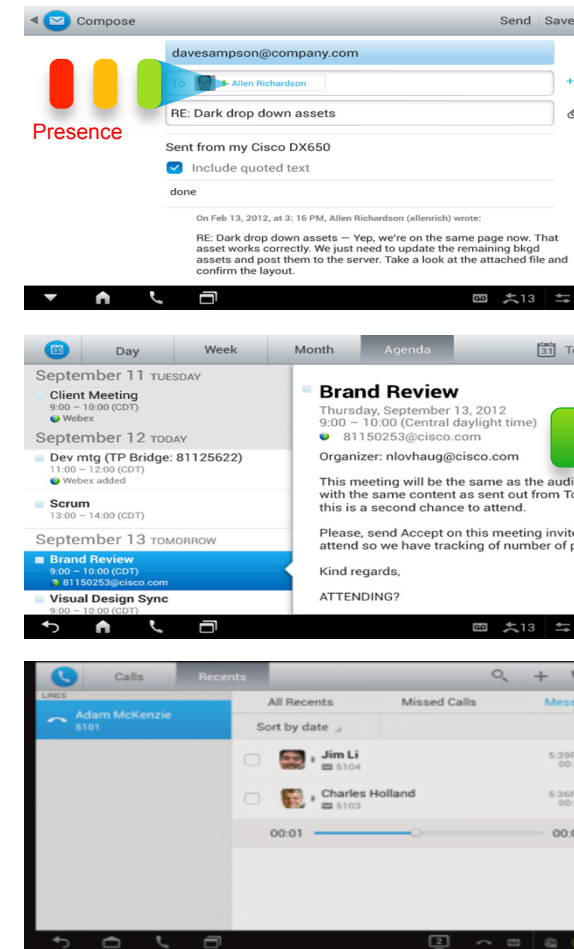
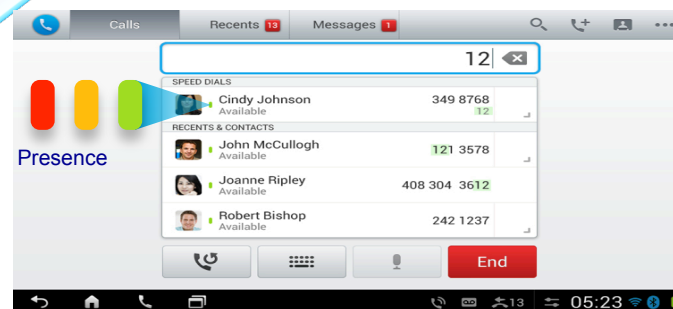


See emails with
presence

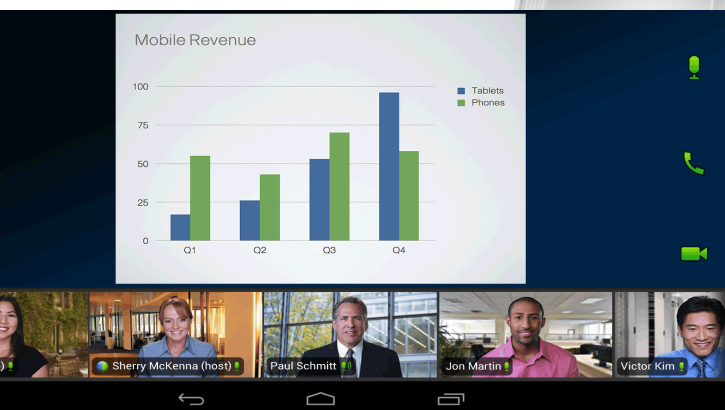
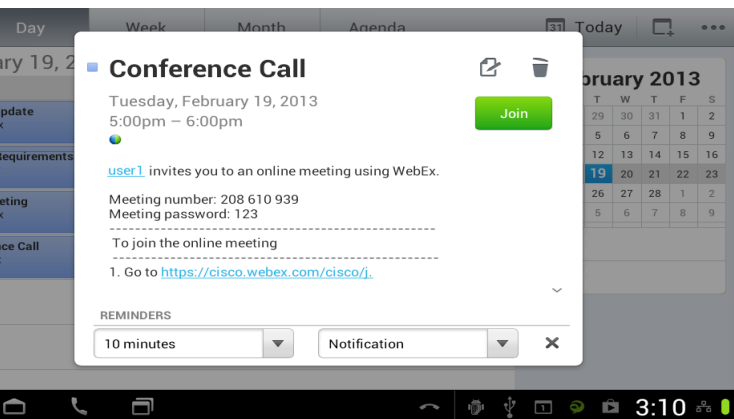
Access calendar
to events and join
meetings

Visual voice mail

Received calls



Cisco WebEx



- **Single touch integration** of WebEx conferencing and calendar
- **Industry-leading web conferencing and meetings**
Audio, web, HD video, messaging and presence
- **View document, application, and desktop sharing**

Application Management



**Fully
Android compliant**

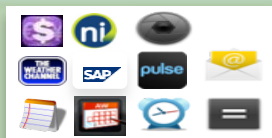
Sourcing Apps



Public Stores



**Cisco CDN
Partner Network**



**In-House Developed Apps or
3rd Party Developers**

Managing Apps

IT grants user permissions to access apps from Android Marketplace

Flexible options available to manage apps

- Cisco Unified Communications Manager
- Cisco Mobile Collaboration Management Service (MCMS)
- 3rd Party MDM/MAM Solutions

APK Cloud-based apps testing and scan for malware

Hardware



Integrated Display	7" 1024x600 touch screen
External Display	HDMI
LAN	2 port 10/100/1000 Ethernet, 802.1q support
WLAN	802.11a/b/g/n
Power	802.3af PoE (class 3 and 4), CUBE-4 external power supply
Bluetooth	2.1 + Enhanced Data Rate (EDR), HID (keyboard, mouse, headset)
SD card	micro SD slot
USB	2 full-size USB 2.0 ports, 1 micro USB port
Audio	3.5mm stereo jack for external speakers or headset

specs at:

www.cisco.com/en/US/prod/collateral/voicesw/ps6788/phones/ps12956/ps12959/sheet_c78-726888_ps12956_Products_Data_Sheet.html

Cisco Purpose-Built Video Endpoint Portfolio



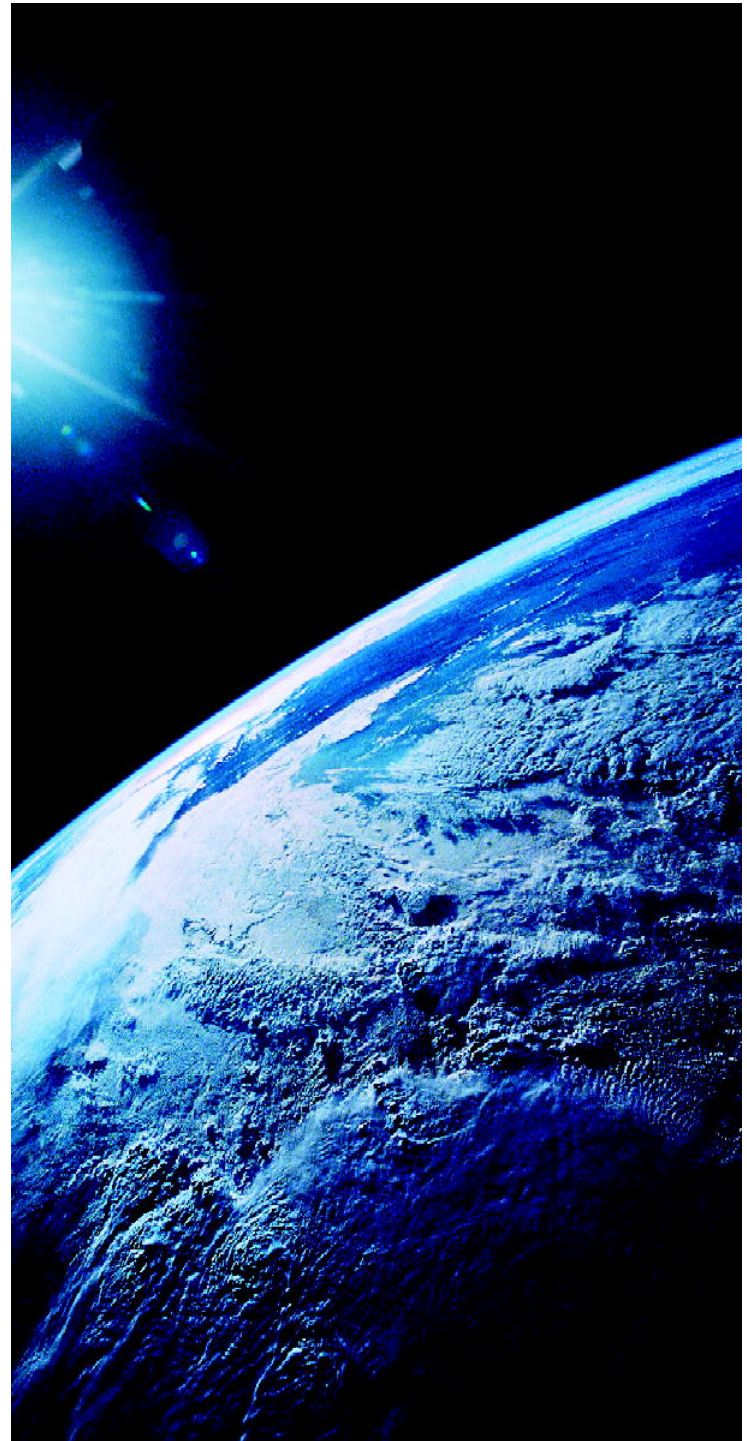
Audio & Video Fidelity



Cisco Jabber



Webex OneTouch



TelePresence and WebEx Working Together

Cisco TelePresence



Live, face-to-face communication experience over the network

Share content

Personal, desktop, multipurpose, integrated, and immersive endpoints

Cisco WebEx



- Meet anytime, anywhere, in real time
- Deliver presentations, show documents, and demonstrate applications
- Pass meeting control or control a remote desktop

Cisco TelePresence WebEx Integration

Integrating the two solutions

Integrate Cisco TelePresence and Cisco WebEx into one solution

Attend meetings using the most accessible collaboration technology

Improve user experience and productivity

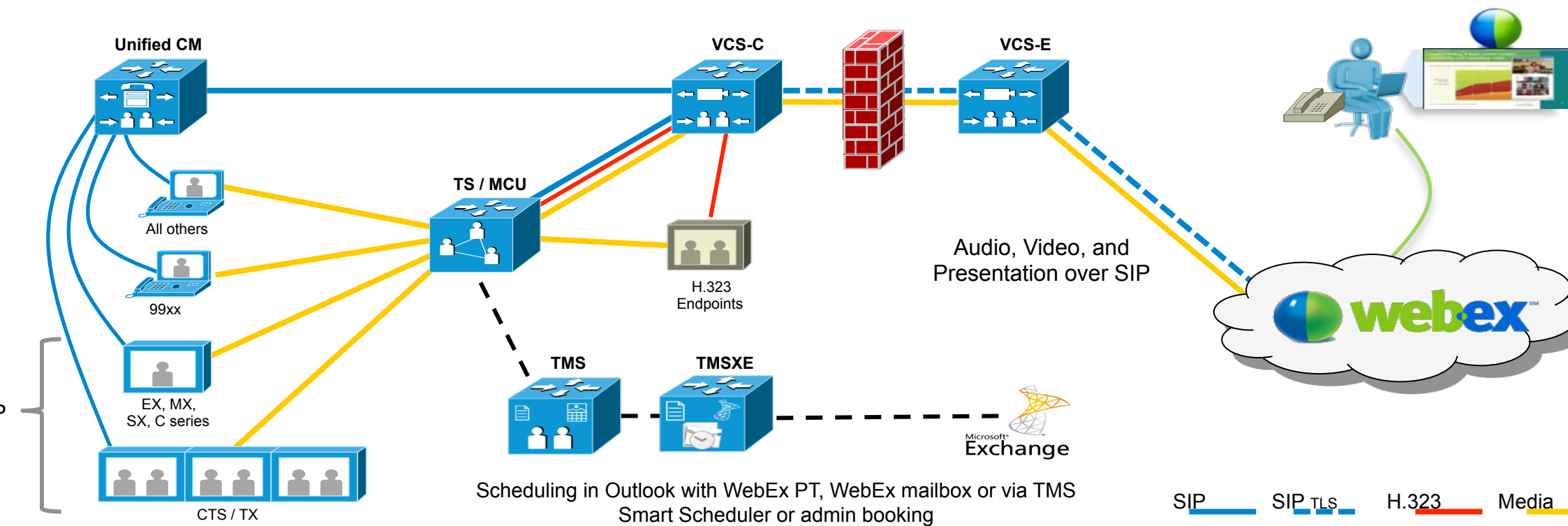
OBTP TelePresence and WebEx

Simplified scheduling



Cisco TelePresence WebEx OneTouch

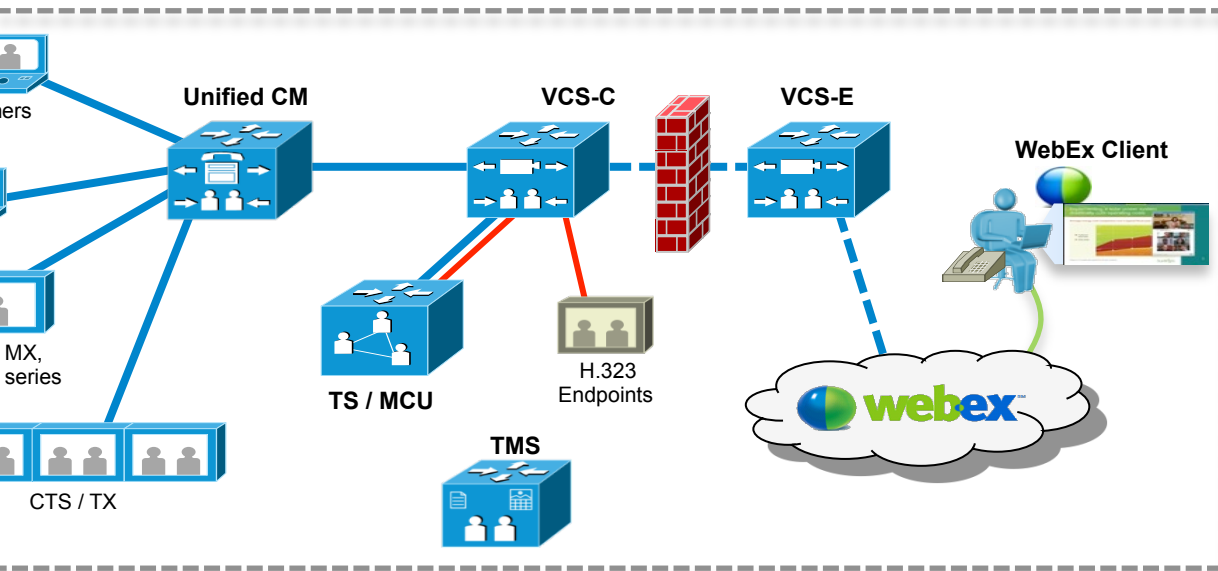
Integration Overview



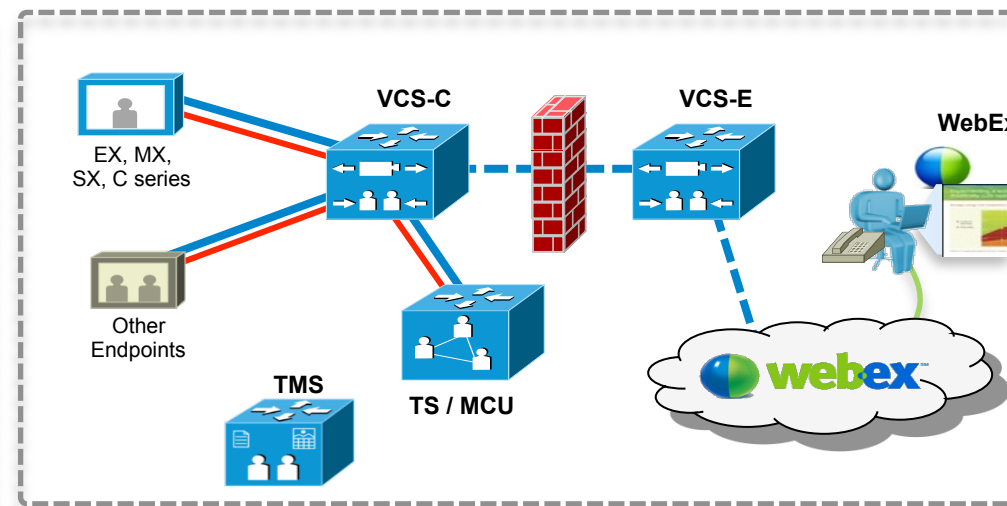
Detailed Architecture

Call Control

Preferred Architecture



Also supported with VCS only



SIP SIP_{TLS} H.323 Media

OneTouch Solution Components

Product	Product model	Min. Software version
WebEx	Meeting Center	T28.9 (Plus lock-down version T28)
CUCM	CUCM	8.6.2 or 9.0
VCS	VCS-C, VCS-E	X7.2.2*
TMS TMS Extensions for Exchange TMS Provisioning Engine	TMS TMSXE TMSPE	TMS 14.2 TMSXE 3.1 TMSPE 1.2
TelePresence MCU	8510, 8420*, 5300 series, 4500 series, 4501, & 4200 series*	4.4
TelePresence Server	8710, 7010	3.0
TelePresence Endpoints	Any supported by MCU or TS	All (focused testing**)
WebEx Outlook Plug-in PT	For OneTouch Meetings	With T28.9
WebEx Mobile Clients	iPad & iPhone (iOS)	WebEx Client 4.5 for iOS

* SD only

** TX, CTS, EX, SX, MX, C, 8900, 9900, Jabber

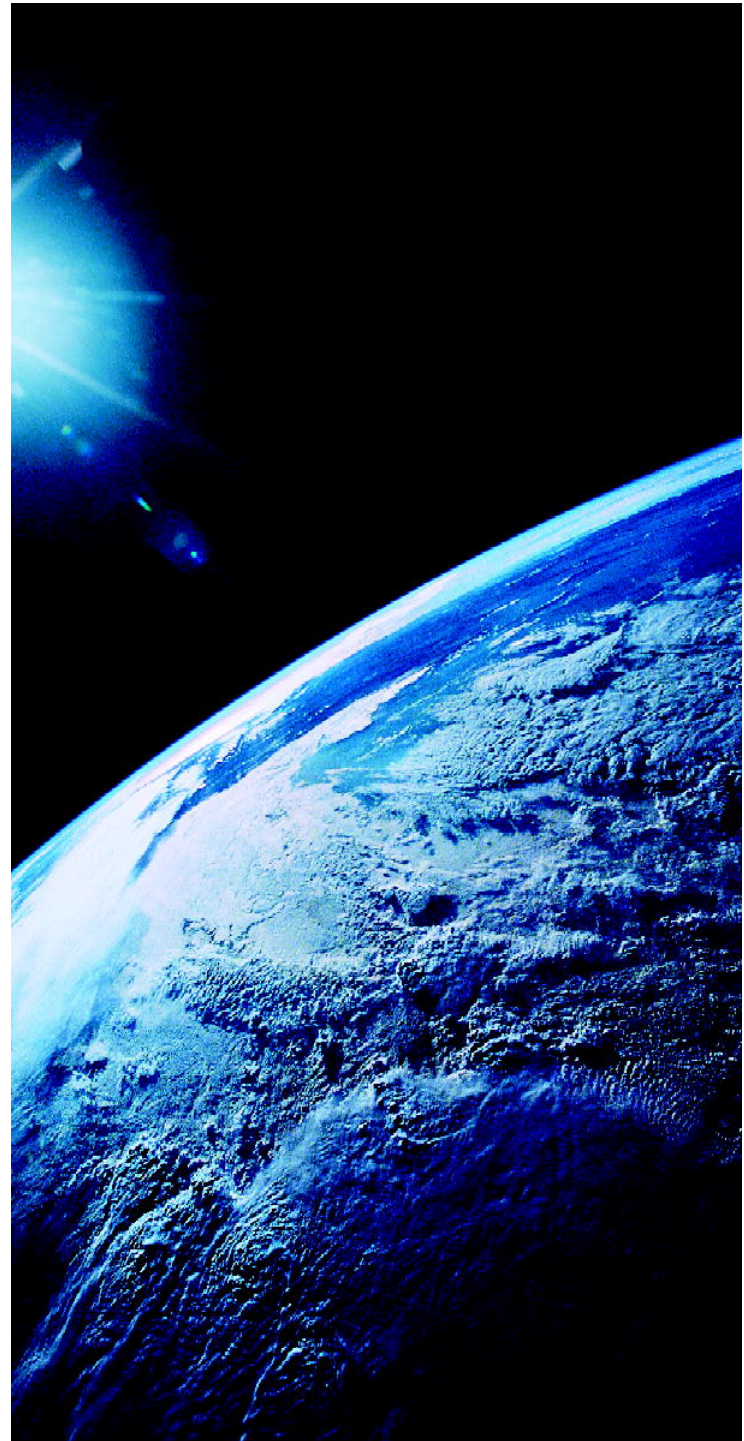
Detailed Architecture

Endpoints

Endpoints can be registered to CUCM or VCS

Endpoint Type	OBTP	Automatic Connect
CTS, TX Series		
EX/MX/SX/C Series registered to CUCM		
EX/MX/SX/C Series registered to VCS		
Jabber, MXP-Series, T-Series, or Third party		
WebEx Meeting Center or Mobile Clients	Click to Launch	

abber Update

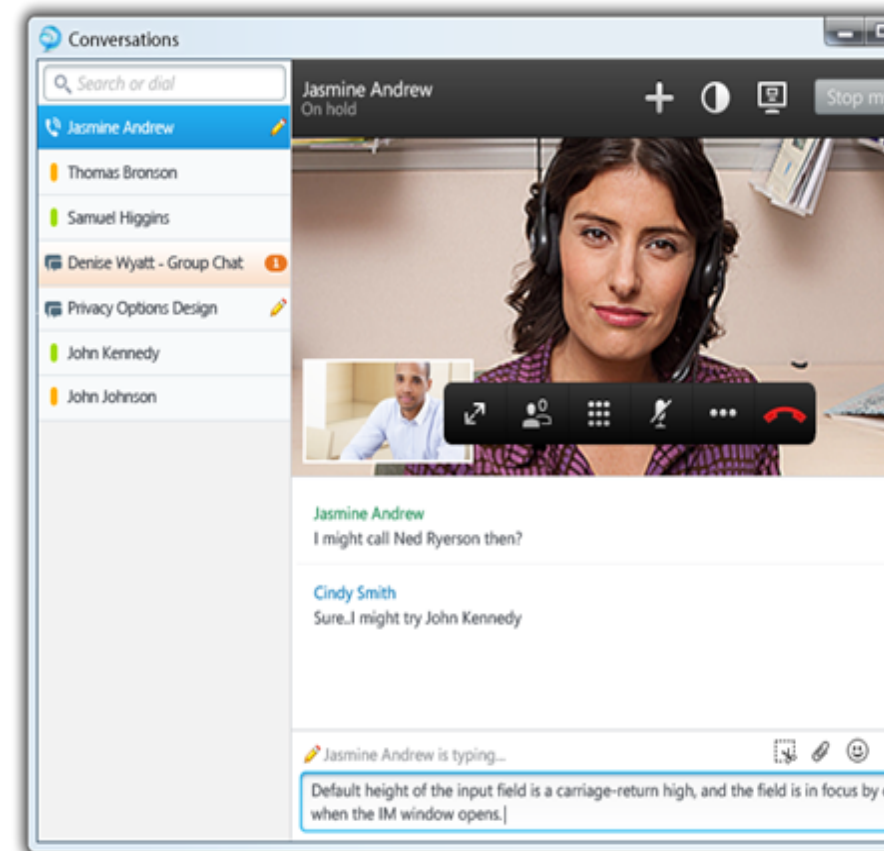


Jabber Investment Priorities

- Single Jabber product architecture
- Architectural platform for consistent feature delivery
- Cross platform (Windows, Mac, iOS, Android, Web, Linux)
- Desktop, Mobile & Tablet
- Drive towards feature parity
- Synchronized releases
- Foundation for native & mobile SDKs
- Band reach of video
- Mobile devices – Mac, Android phones, iPhones, Android tablets

Engaging User Experience

- Integrated Conversation Window
- Consistent user experience with Futurama



Jabber Investment Priorities

Flexible deployment

- Configurable for video only, IM only, full UC client

Extend integration with UC application suite

- Contact center integration (VXC, Finesse)

Extend Jabber to support B2B & B2C use cases

- HTML5 browser based UC/video sessions into businesses

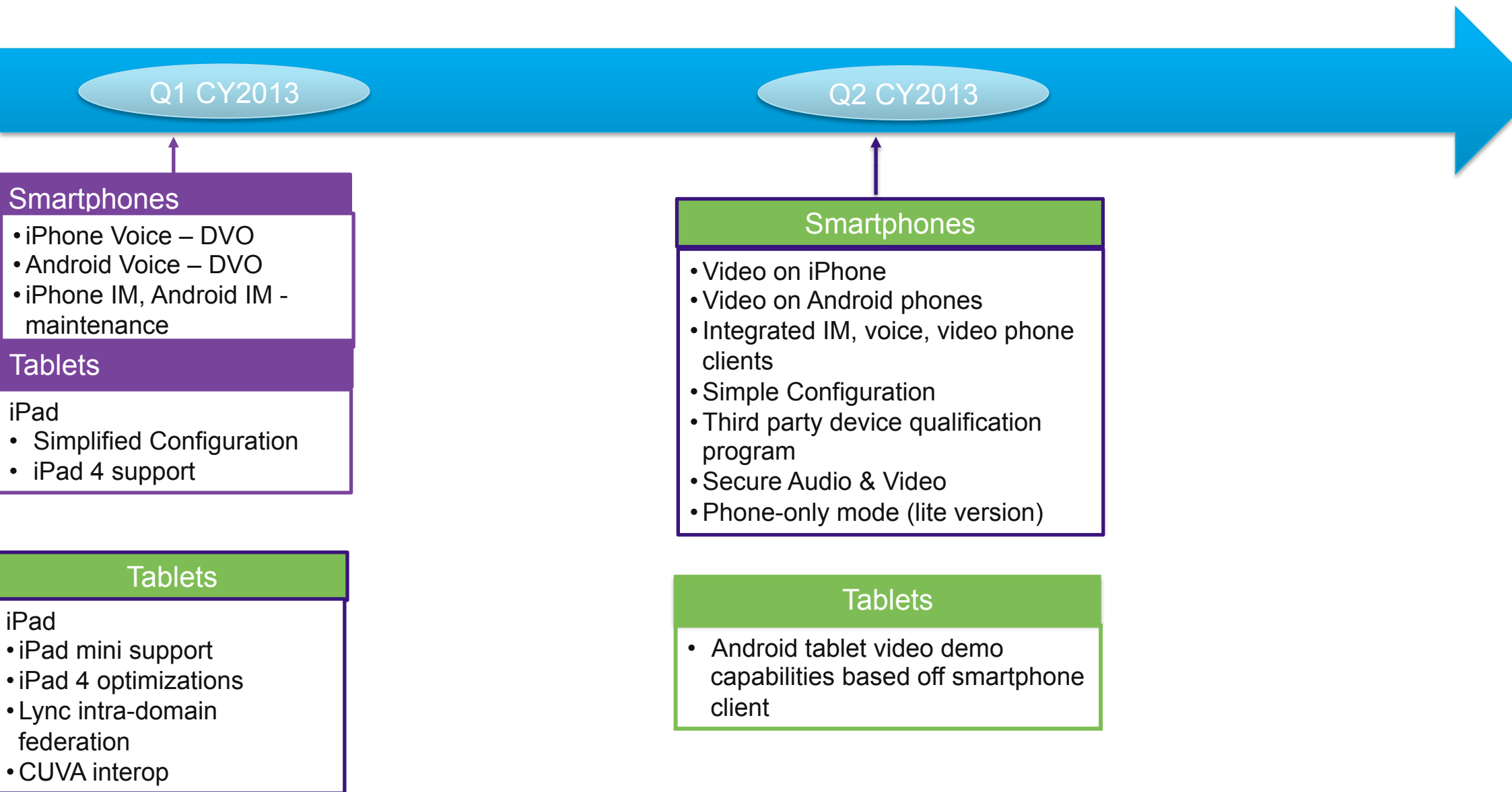
- Initiate from public web sites & URLs, e.g. email

- Calls to individual employees initially, ultimately customer care

- Cloud-based offering ... targeting Jabber Video service



abber Mobile Product Roadmap





Release

- Dock-able Window
- Secure Phone (sRTP audio / video)
- Accessory API
- Silent Monitoring & Recording
- Other enhancements
- Phone mode **(Beta Feature*)**

* As part of our customer led approach to product improvements Phone Mode is provided as a Beta feature ; it is available in the product for early evaluation and feedback, prior to productization in a subsequent release. Beta features may contain undocumented issues or unexpected behaviour and are provided for customer evaluation only.



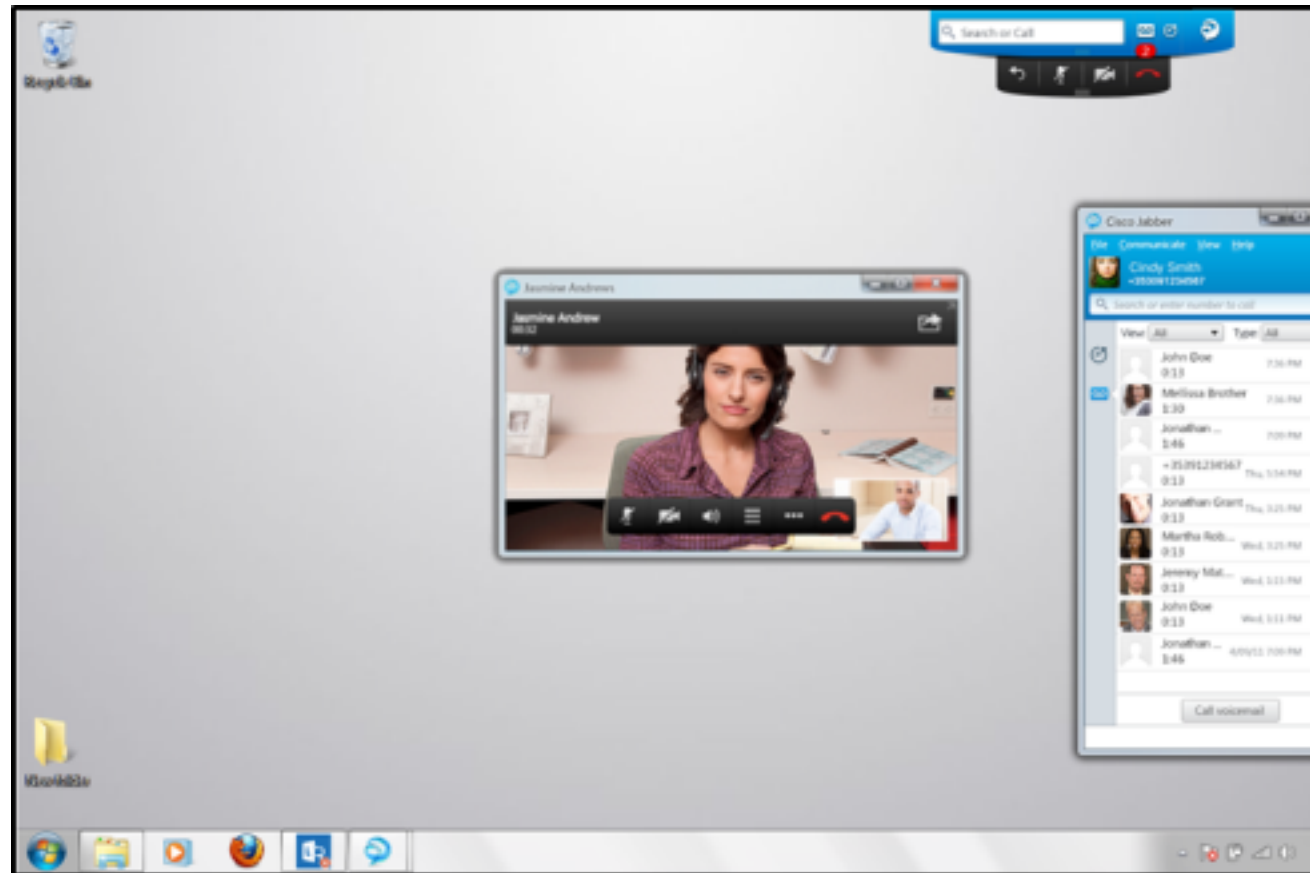
ber for Windows 9.2

Jabber Docked Window

ocked window: User interface option that displays a small window at the top of the screen and allows users to quickly access common functions. Can be turned on/off from hub View menu

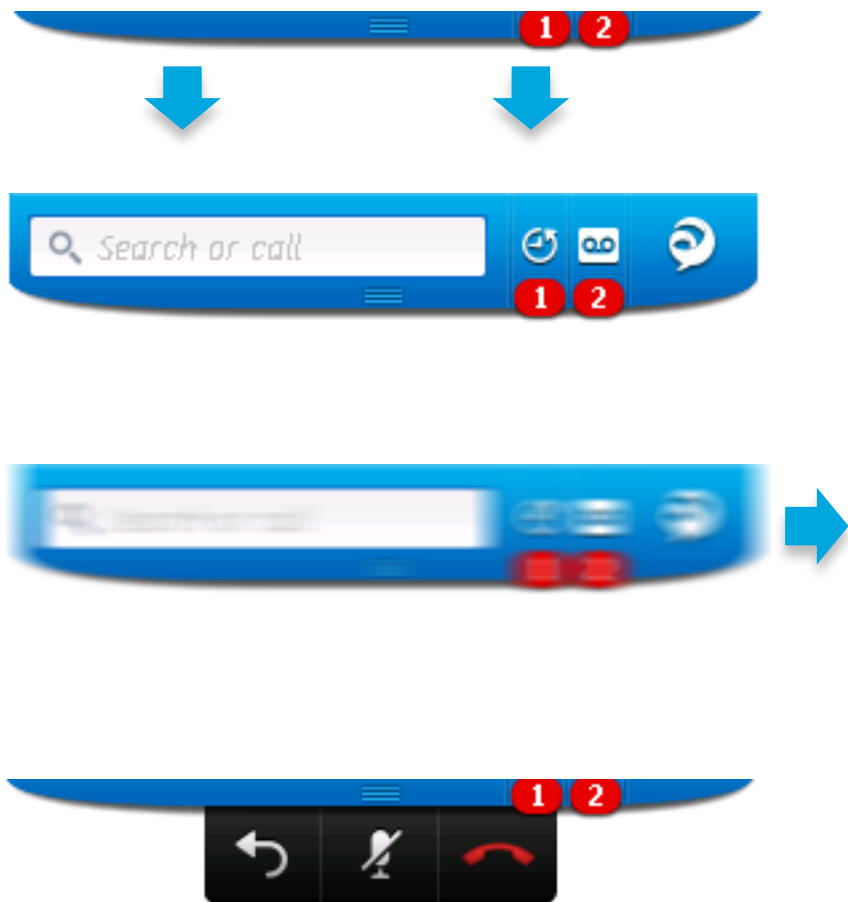
ull Jabber UC call window with Cisco aligned escalation and in-window call controls

abber Hub can be minimized and accessed only as needed without impacting functionality and access to major features



ber for Windows 9.2

Tabber Docked Window



Dock recedes from view when not in use to further minimize client footprint

Mouse action triggers dock to come into view

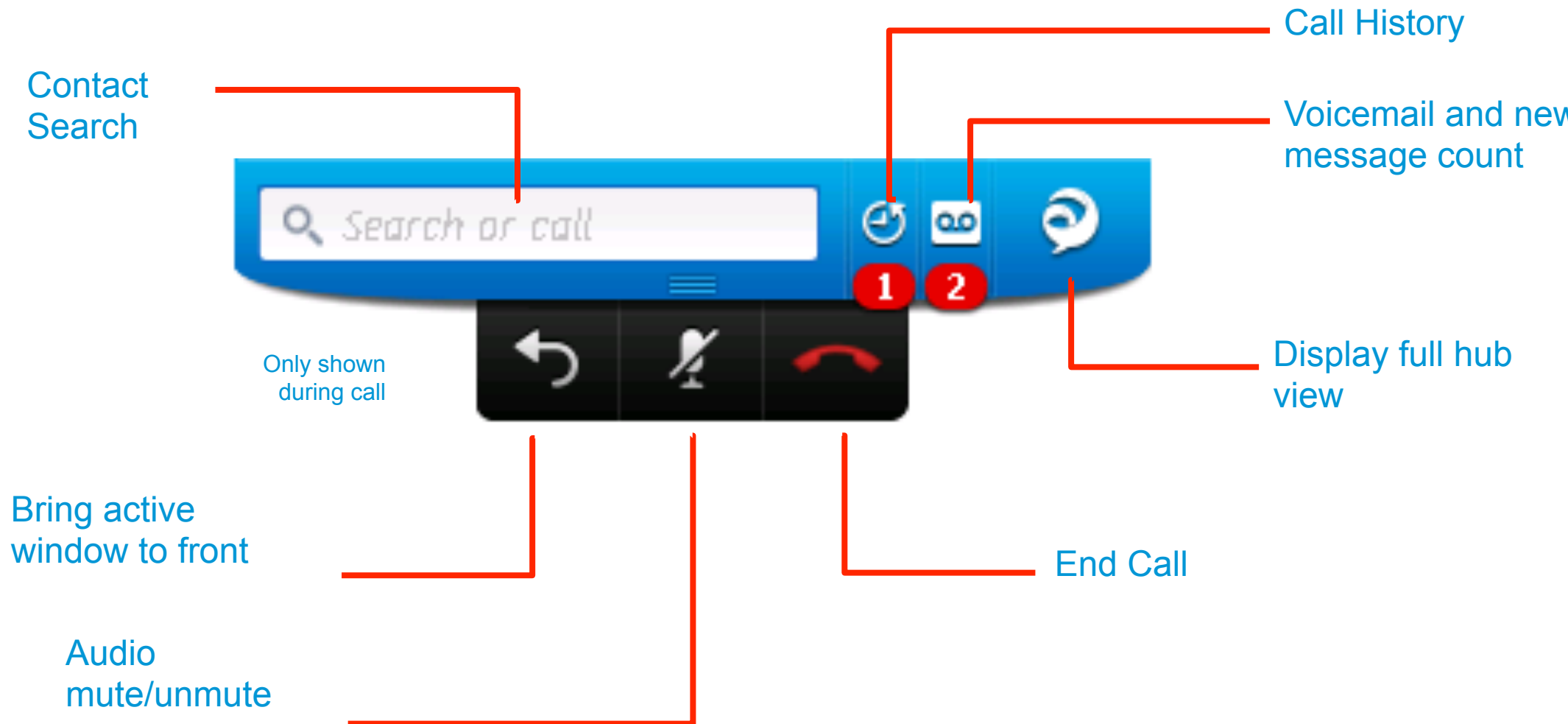
Alerts still visible when dock is off-screen

Dock can be repositioned horizontally across top of screen by drag or via menu control

User Dock position persistent

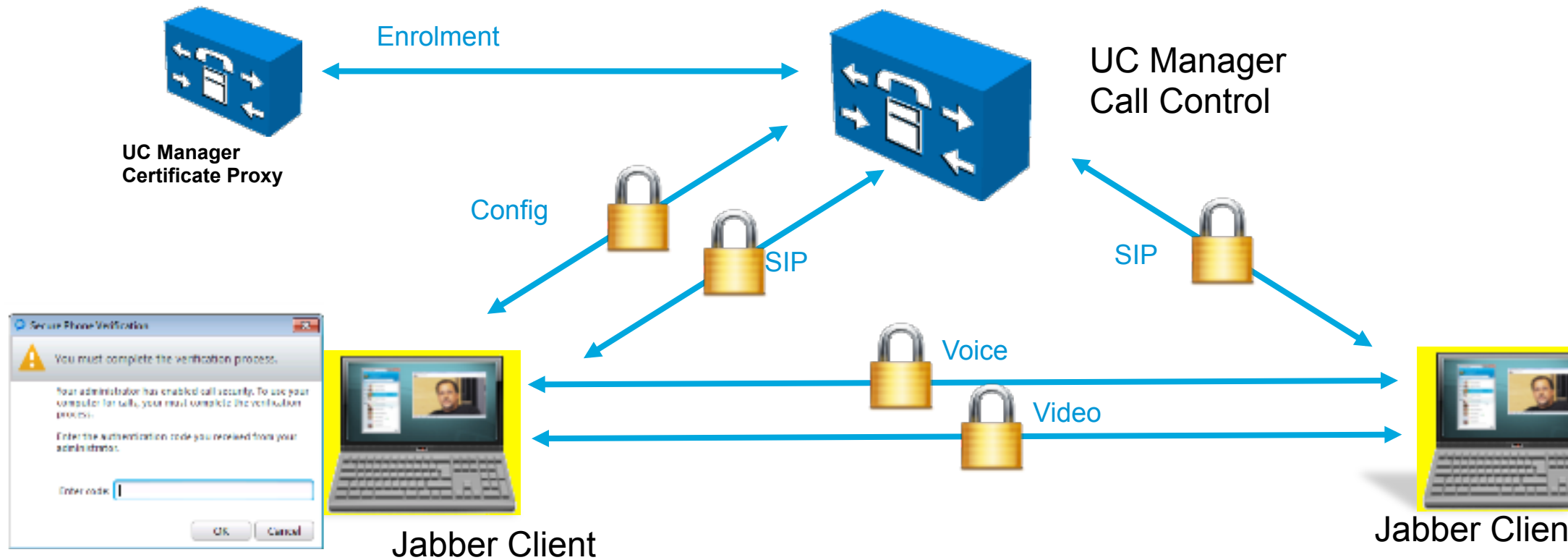
ber for Windows 9.2

abber Docked Window



ber for Windows 9.2

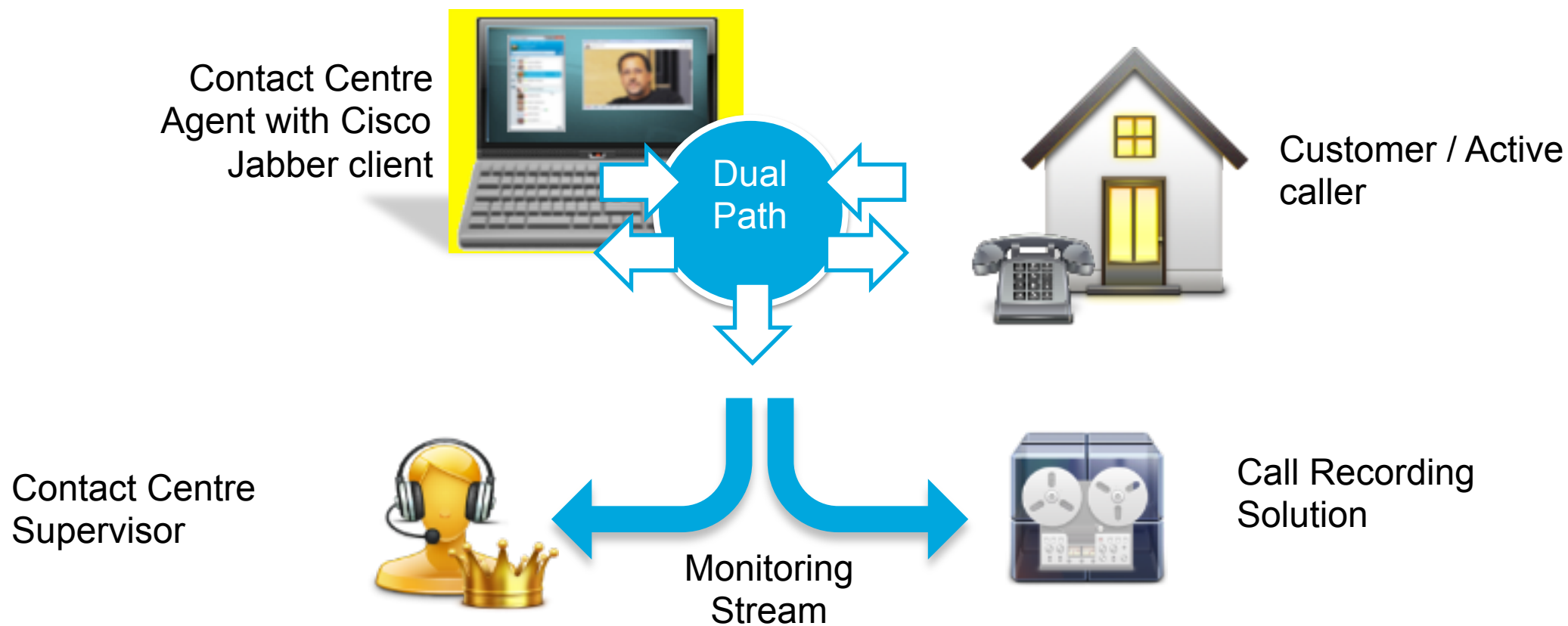
Secure Phone (sRTP)



ber for Windows 9.2

Silent Monitoring/Recording

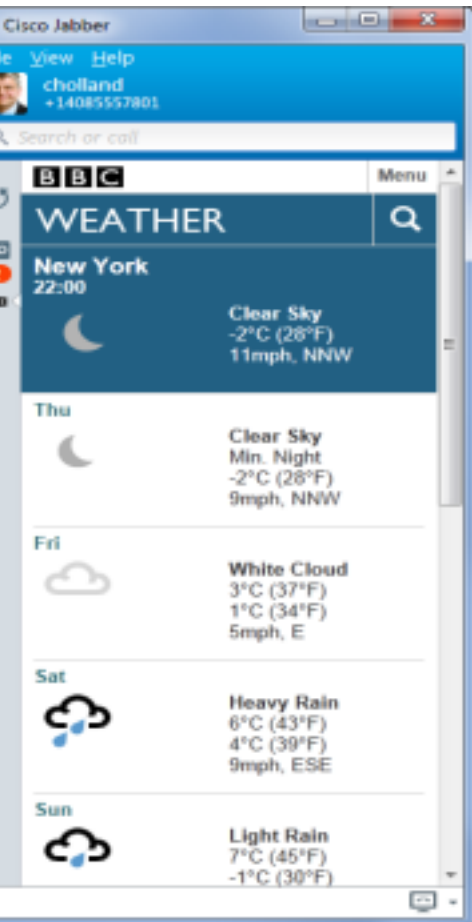
Support for additional audio path functions for silent monitoring and recording.



No support for barge or whisper

Cisco Jabber for Windows 9.2

User Defined DHTML Tabs



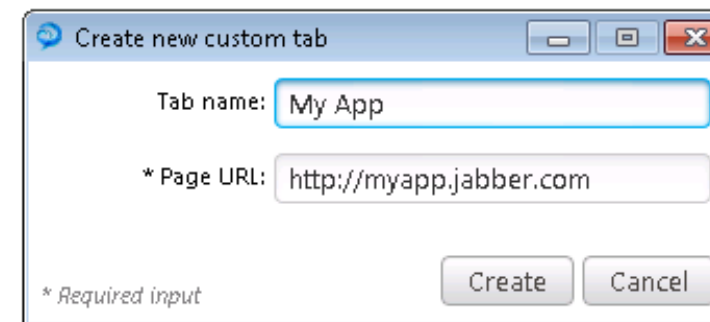
Weather (Mobile edition)

Jabber for Windows 9.2 introduces the ability for users to install their own custom tabs.

User select File>New>Custom Tab

Feature can also be administratively disabled

User enters Title and Page URL, a
Icon be specified or Jabber will use
web site icon or default icon if not
available



Jabber for Windows 9.2

Necessary API

Jabber 9.2 provides new API's to headset vendors to support call control functions with Jabber.

API provides Answer, End Call and Mute functionality

9.2 does not provide native headset button support. Headset vendors will release software to operate with Jabber based on Jabber headset API. Once headset vendor software has been installed headset controls will be activated



Jabber for Windows 9.2

Deployment Flexibility

Start with the features you need

Start Solution with...

 **Instant
Messaging**

Start Solution with...

 **Voice
& Video**

Start Solution with...

 **Unified
Comms**



Jabber IM Only
(Includes Jabber
for Everyone and
desk phone control)



Jabber Phone Mode
Media Termination



Jabber Full UC
IM and Media Termination

In place migration to ...

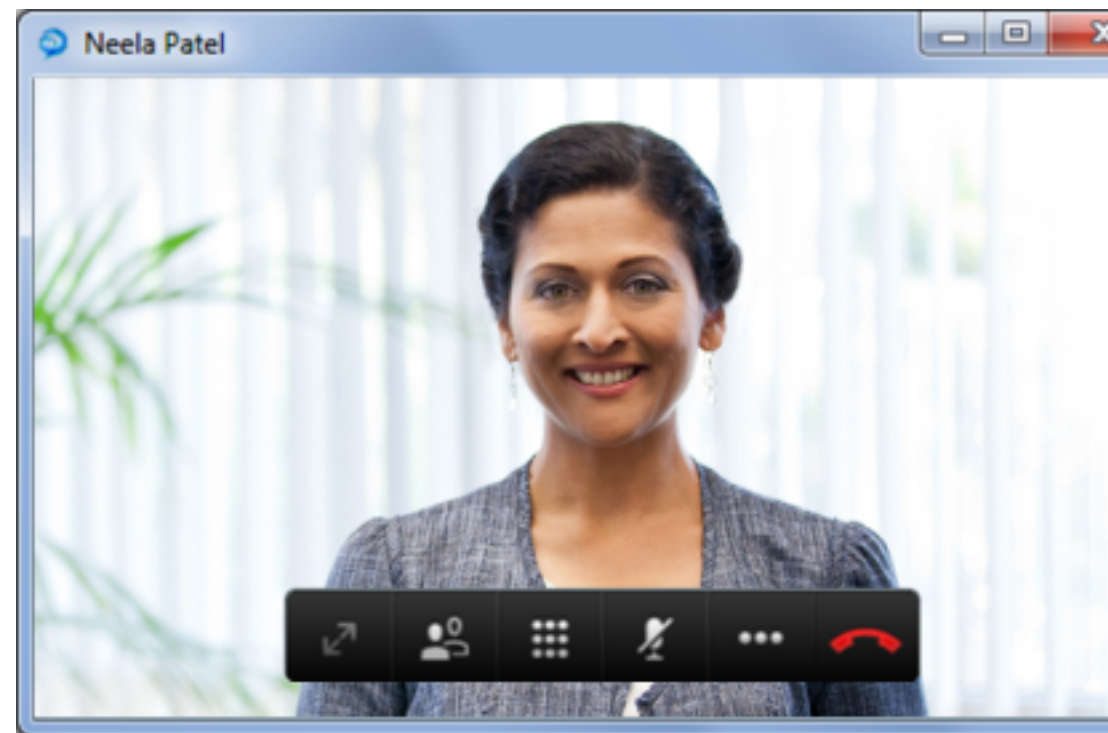


(Beta Feature)

ber for Windows 9.2

Phone mode – Video Operation

Phone mode provides voice and a high definition video experience supporting up to 720p



(Beta Feature)

ber for Windows 9.2

Phone mode – Operating modes



Soft Phone

ber terminates voice and video calls on workstation

Requires suitable headset or speaker device



Desk Phone

Jabber controls Cisco desk phone from Jabber client

Also enables desk phone video operation with audio terminated on phone and video displayed on workstation



Extend & Connect

Jabber controls 3rd party PBX phone or PSTN phone via UC manager

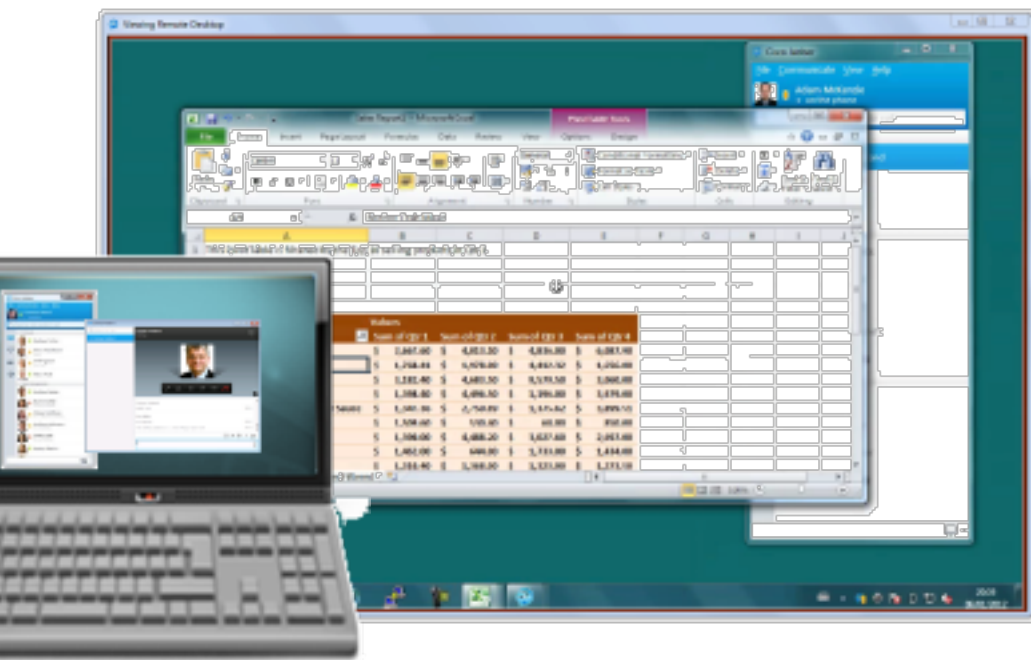
User can update from phone number destination from within the Jabber client

ber for Windows 9.2

(Beta Feature)

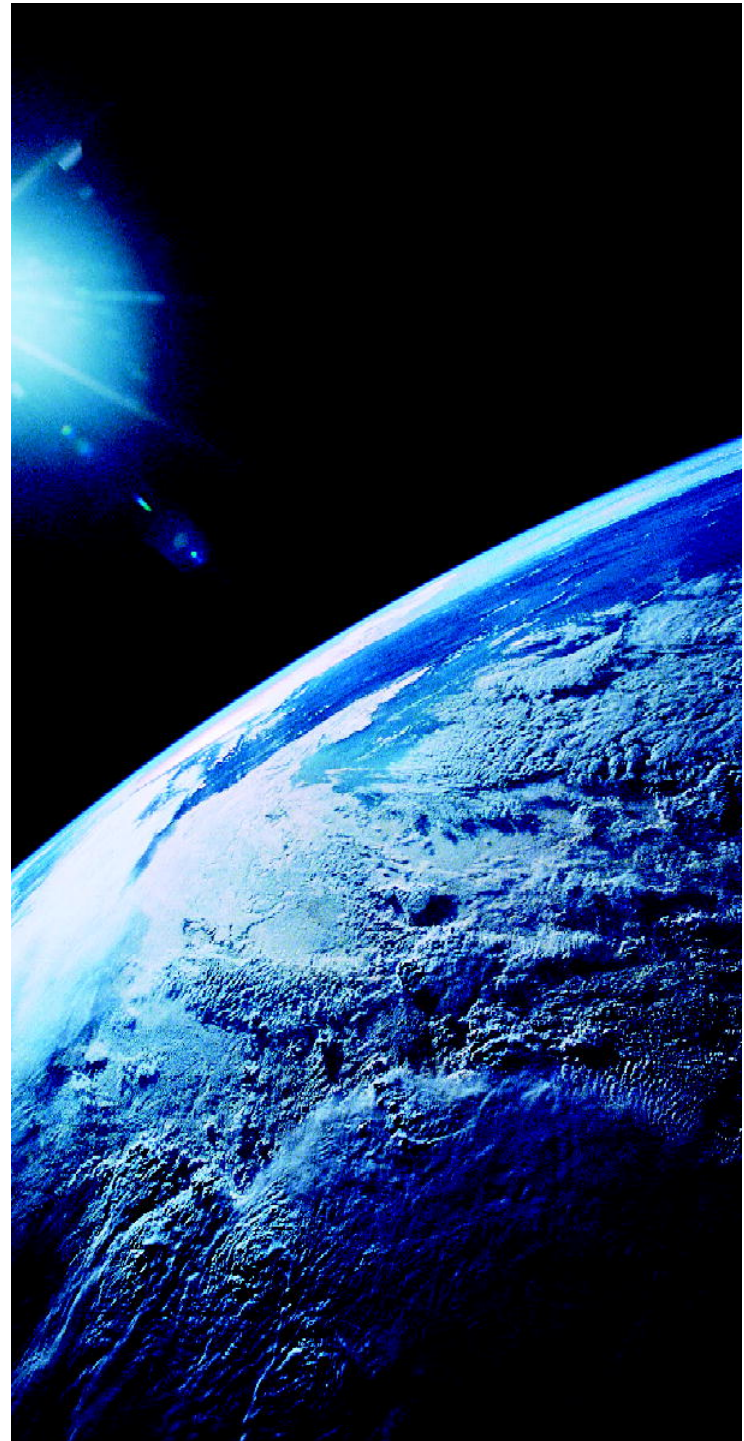
Phone mode – Desktop Share

Phone mode provides standards based video desktop sharing with cross device interoperability



Desktop share allows desktop to be shared with Jabber clients, telepresence endpoints, rooms and conference units/bridges.

abber SDK



Jabber SDK Evolution

SDK

Build on Jabber SDK

Empower customers, ISV's,
partners, etc



Standards

Work with standard bodies
and industry shapers

Openness, interoperability



mozilla



...

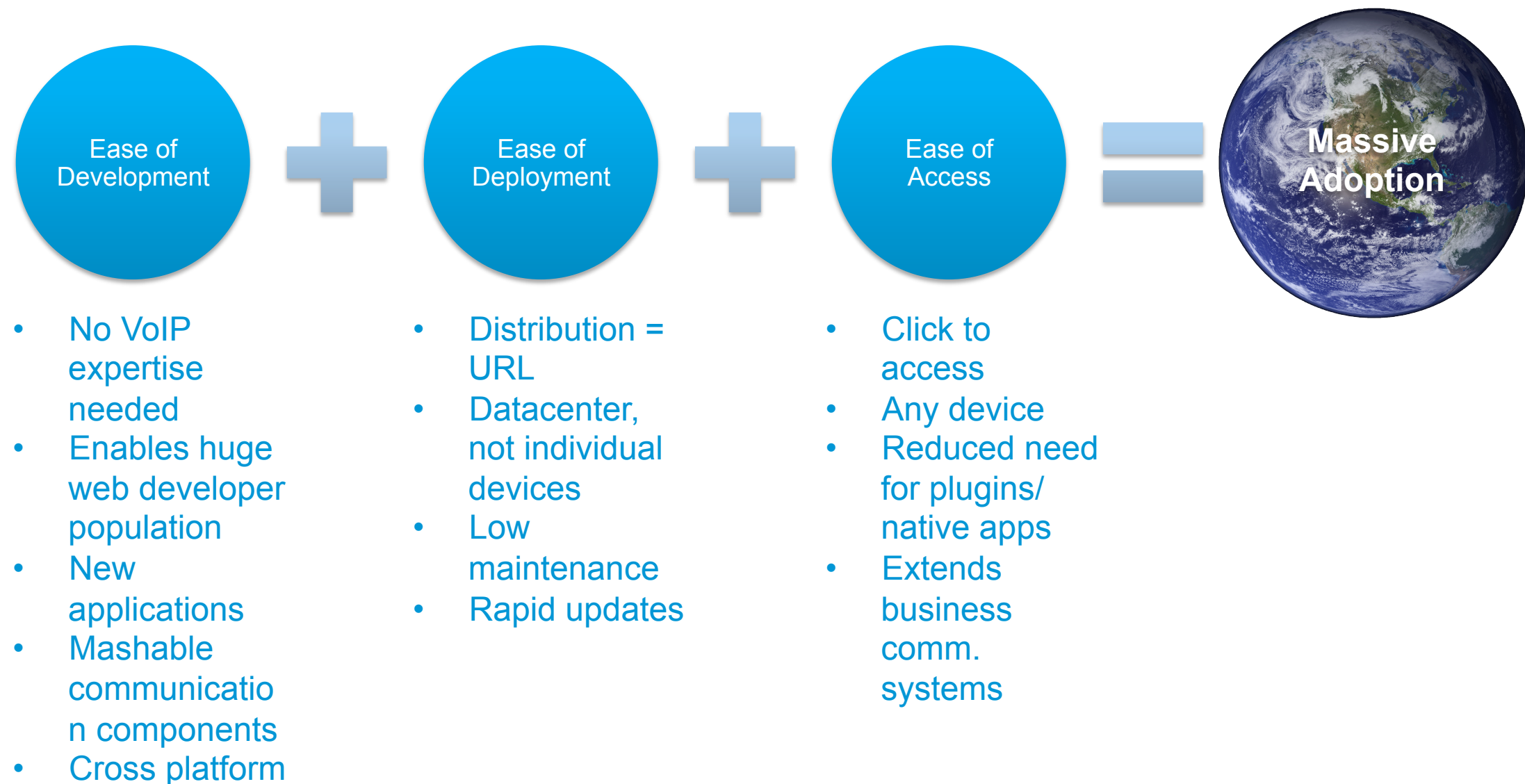
Products

Progressively introduce HTML5
& WebRTC

e.g. "Jabber Web"

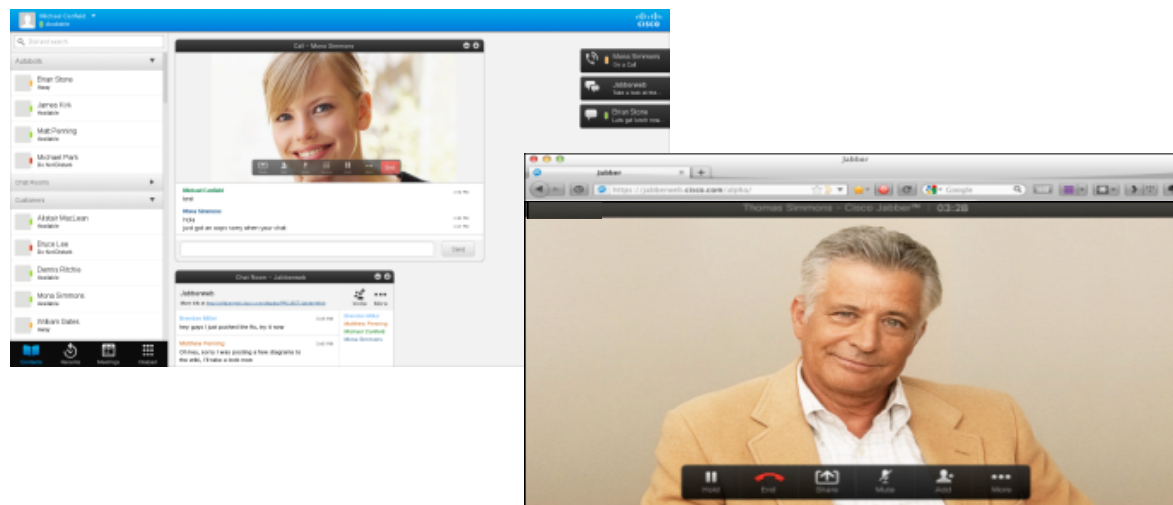


Why HTML5 / WebRTC Are Interesting?

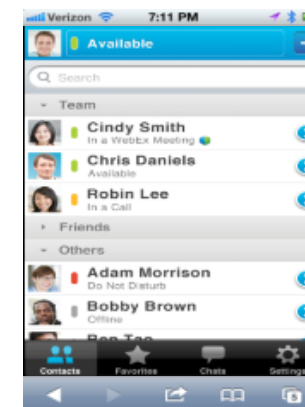


“Jabber Web” Overview

DESKTOP



MOBILE



Browser-based Jabber UC/video for employees

Primary client for some, alternative client for others

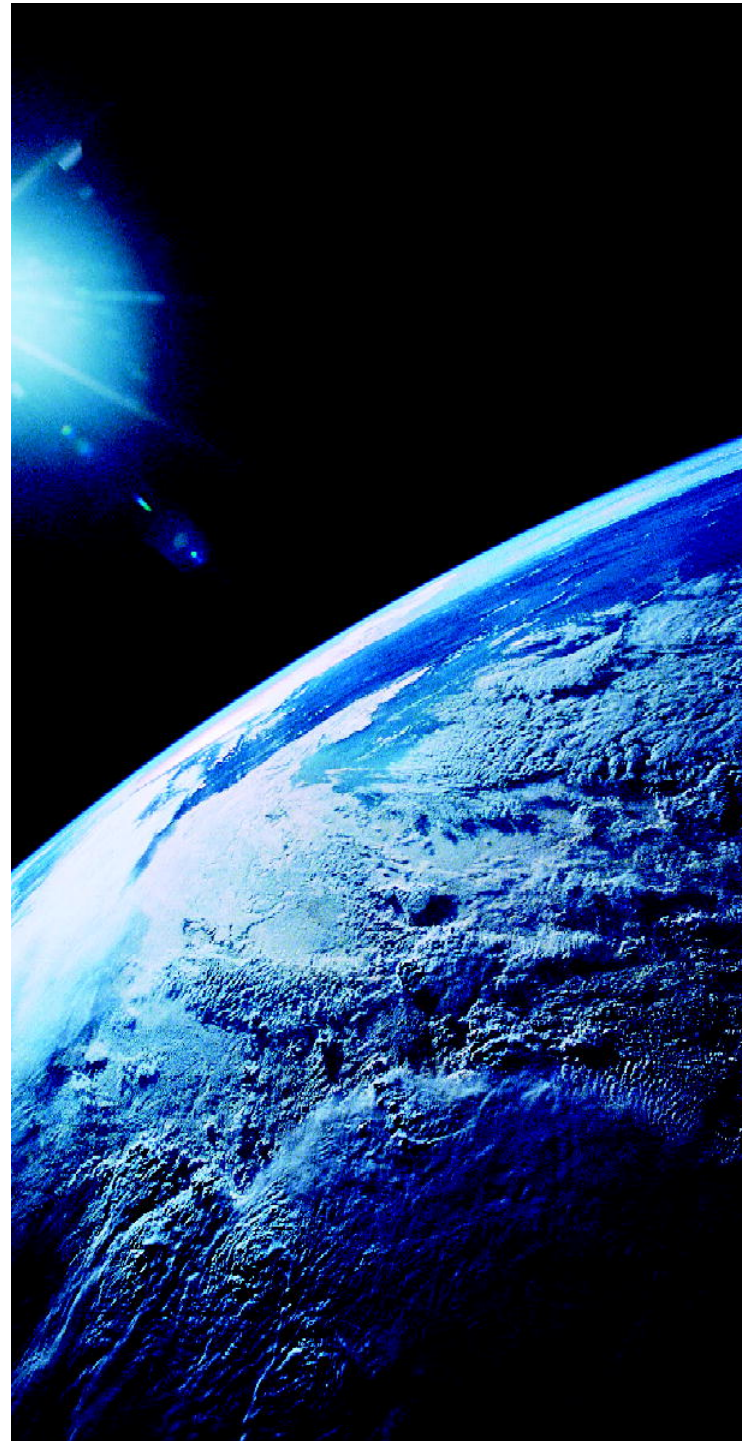
Sessions from browser to browser, to UC/video endpoints, to PSTN

Desktop initial focus ... targeting mobile over time

Initially, on-prem web server deployment with support for cloud services, i.e. IM/P, meeting

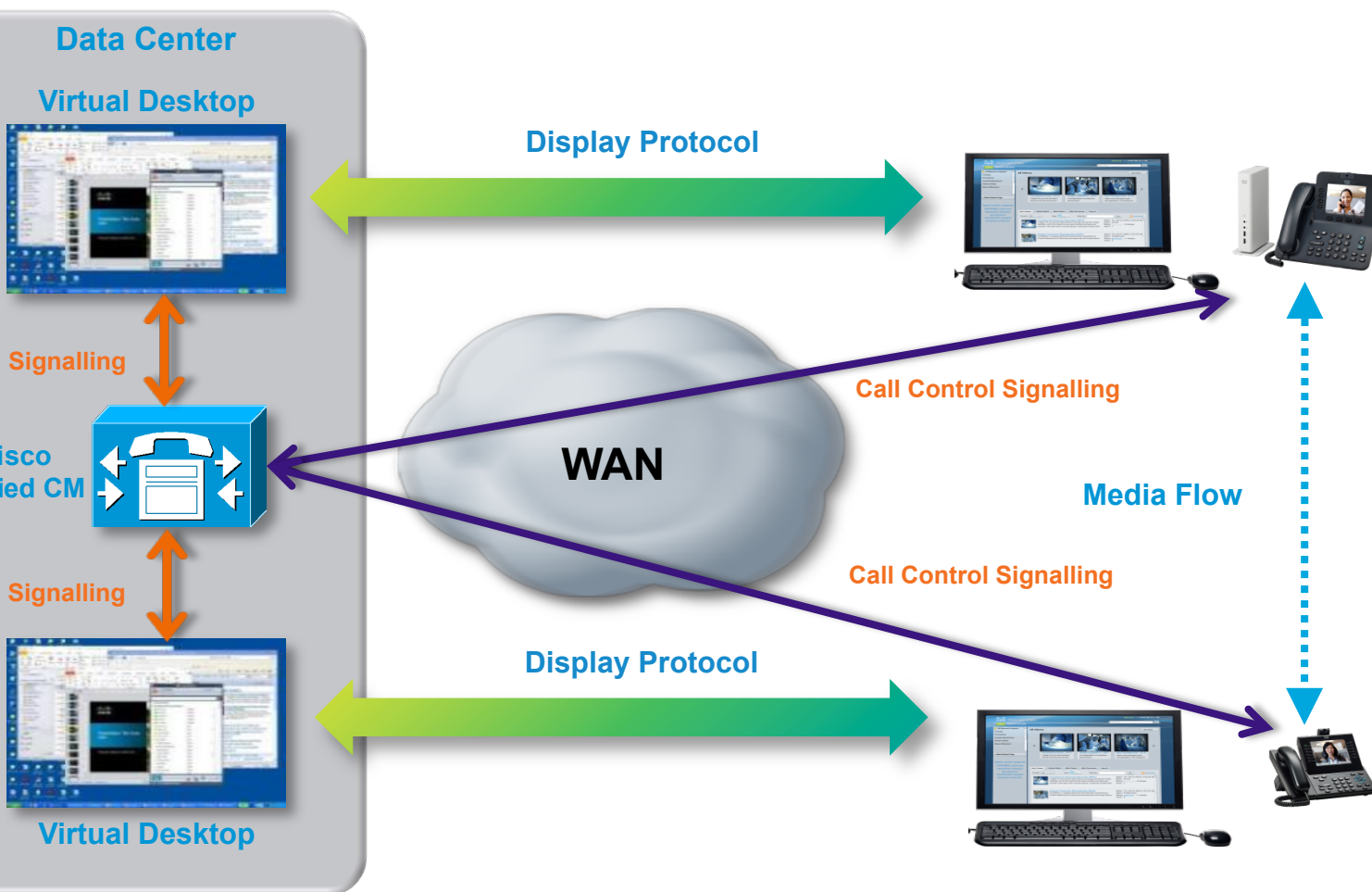
cloud-based deployment model targeted in future

XME



Voice, Video, Virtual Desktop Zero Clients

Cisco Unified Communications Using Desk Phone Control



- UC media “voice/video” (RTP) flows outside the display protocol
- Signaling of Cisco UC Client back to Unified CM remains inside the display protocol
- QoS can be used on media
- Path is optimized
- Location Awareness and 911, Codec selection, CAC, SRST, Reference, Time Zone, Dial-Plan

How to deliver the Virtualized Workspace Experience

Client Categories

Hardware



Zero Clients

VXC 2100 Series



Zero Clients

VXC 2200 Series



Thin Client

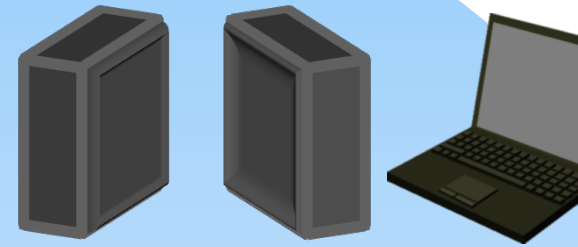
VXC 6215

Software



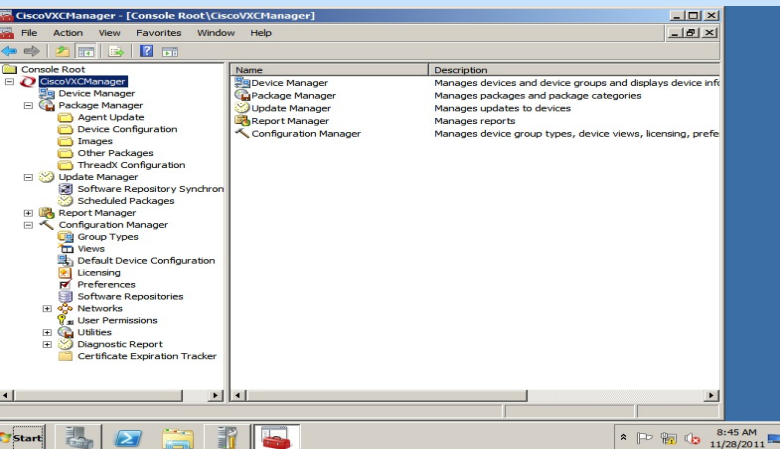
Software Appliance

VXC 4000



Third Party Clients

Virtualization Experience Media Engine Software



VXC Devices are managed by the VXC Manager centralized management system.

Third Party Devices are independently managed by the respective management systems

Cisco Virtualization Experience Media Engine (VXME)

Enabling Cisco Jabber for Virtualized Environments



Voice and video is processed locally by VXME and rendered within the hosted virtual desktop for a consistent Cisco Jabber experience

Enables Jabber to run in virtualized environments on thin clients and Windows PCs

High definition audio and video via local media processing

Quality of Service for voice/video media

MediaNet compatible

Integrated Unified Communications accessories

Supported with Citrix XenDesktop, **Citrix XenApp Published Desktops**, VMware View



Integrated UC Accessories

Labra Handset 450 for Cisco



USB based, Plug & play
DECT cordless handset

Logitech UC Keyboard K725-C and Logitech Mouse M525-C



Revolutionary keyboard
design integrates phone
and video call controls

Labra Speak 450 for Cisco



Plug & play USB & Bluetooth
speakerphone ideal for
hands-free operation

Logitech Webcam C920-C



Superior 720p / 30 fps
HD performance with
local video processing
within the camera

YouTube video on VXME



<http://www.youtube.com/watch?v=Lsxqqy7VfpQ>

Prosíme, ohodnotte
tuto přednášku.

Děkujeme za pozornost.

