## TOMORROW starts here.

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# Implementing Video Scheduling and WebEx Enabled TelePresence

BRKEVT-2664

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Technical Marketing Engineer - CTG



#### WebEx Enabled TelePresence

Agenda

Welcome

Solution Overview

Why?

Integration key to any-to-any video solution

What?

• Detailed Architecture – scheduling and user experience

How?

Configuration and deployment.

Q&A

Interactive discussion



### 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

- 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 Enabled WebEx

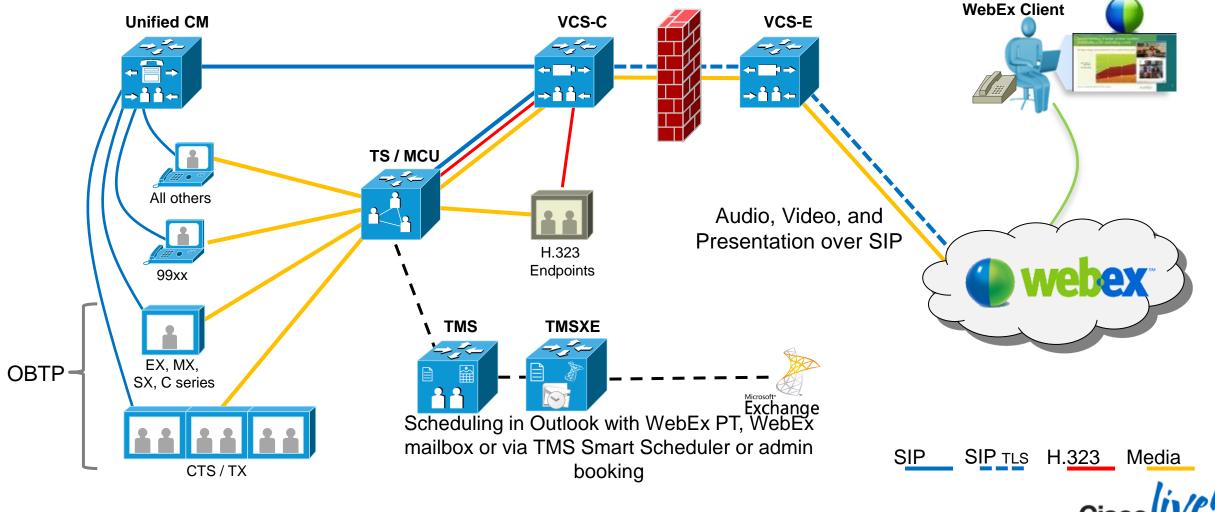
#### Main Features

- Two way video & audio with TelePresence Server (TS) or TelePresence MCU for conferencing
- Easy scheduling with TMS and Cisco Outlook Productivity Tool (PT)
- Any TelePresence endpoint registered to CUCM or VCS
- One Button to Push/\*?\* to join TelePresence with WebEx
- Two way data content sharing
- Audio via SIP/IP, or PSTN audio including third party TSP Audio providers
- WebEx Meeting Centre and mobile clients
- VCS Expressway to WebEx Cloud



### WebEx Enabled TelePresence

Solution overview



### **Updates & Current Positioning**

- WebEx in the Cloud (not on premise)
- Meeting Centre and TelePresence scheduled meetings (no adhoc)
- MCU or TP Server required
- WebEx Audio or Certified Telephony Service Provider only
- 4 Scheduling Options
- US/EU Interconnect



### Solution Pricing



- No additional charge for WebEx and TelePresence working together
- Standard WebEx host licensing required. Customer must order a zero dollar SKU for provisioning
- TMS WebEx scheduling Feature License Key also required, zero dollar cost
- Standard VCS Expressway Traversal Licensing, one traversal per concurrent TelePresence with WebEx meeting
- For Microsoft Exchange & Outlook scheduling, standard TMS Extension for Microsoft Exchange (TMSXE) 3.0 or higher for number of endpoints with Exchange Mailboxes to be scheduled
- Productivity Tool (PT) is free of charge, available from customer's WebEx site
- A2Q Assessment 2 Quality process will be required



### **Solution Components**

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| Product   | Product model   | Min. Software version               |
|---|---|-------------------------------------|
| WebEx   | Meeting Centre  | T28.10<br>T28 Lockdown<br>T29       |
| 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<br>TMSXE<br>TMSPE                                       | TMS 14.3<br>TMSXE 3.1<br>TMSPE 1.1  |
| TelePresence MCU  | 8510, 8420*, 5300 series, 4500 series, 4501, & 4200 series* | 4.4                                 |
| TelePresence Server   | 8710, 7010  | 3.0 or higher 3.1 for TSP           |
| TelePresence Endpoints  | Any supported by MCU or TS                                  | All (focused testing**)             |
| WebEx Outlook Productivity Tool plugin                            | PT for TelePresence   | From WebEx site                     |
| ሦያያ አመሪካ Clients<br>** TX, CTS, EX, SX, MX, C, 8900, 9900, Jabber | iPad & iPhone (iOS) or Android                              | WebEx Client 5.0 for iOS or Android |

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#### **Scheduling Options**

#### **Synchronous**

Outlook with Exchange using WebEx Productivity Tool plug-in, Windows only initially

#### **Asynchronous**

TMS new Web Smart Scheduler

WebEx Scheduling Mailbox; Any mail client sending invite via Microsoft Exchange with TelePresence rooms and the Scheduling mailbox to include WebEx

TMS Admin Booking Interface available to any user with TMS account (mostly for help desk)

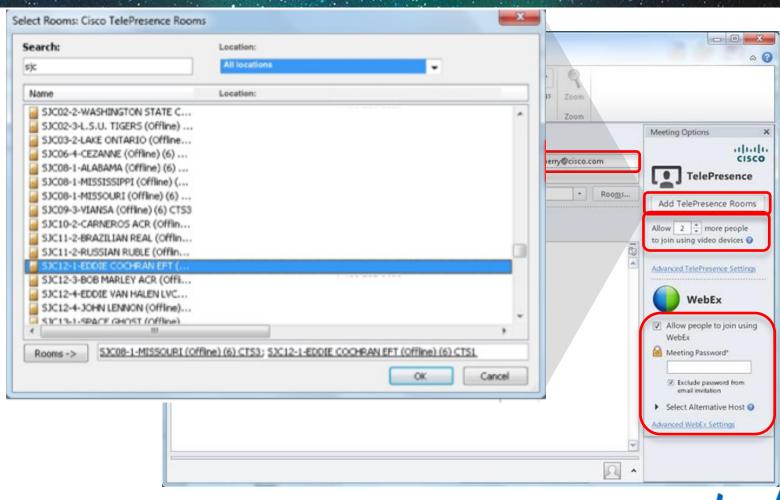
TMS Booking API available for developers who which to integrate with WebEx Enabled TelePresence

With asynchronous scheduling, only the organiser receives email with details, they then have to use ICS attachment to other participants



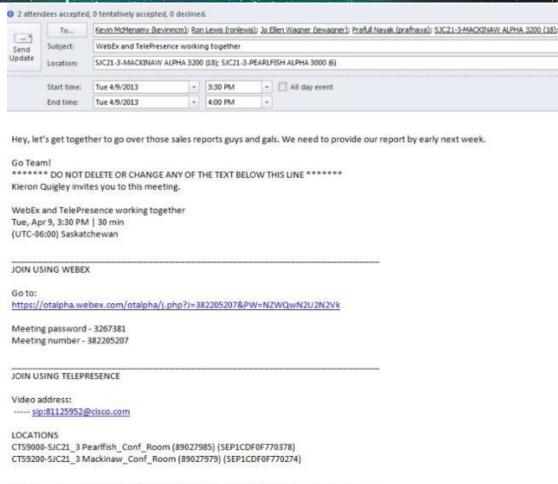
WebEx Productivity Tool

- Add participants, rooms, subject and body in usual fashion
- The TelePresence Rooms finder makes adding rooms easy
- Include dial-in ports for people to join from Jabber or EX Series
- WebEx Select by default, option to change password or other options



#### WebEx Productivity Tool

- Synchronous Scheduling with Productivity Tool
- One Outlook invite sent to all participants from TMS in plain text
- Changes to invite, change original invite, resend to all or forward to others
- WebEx meeting email optional, admin option
- Invite includes ICS attachment, not needed



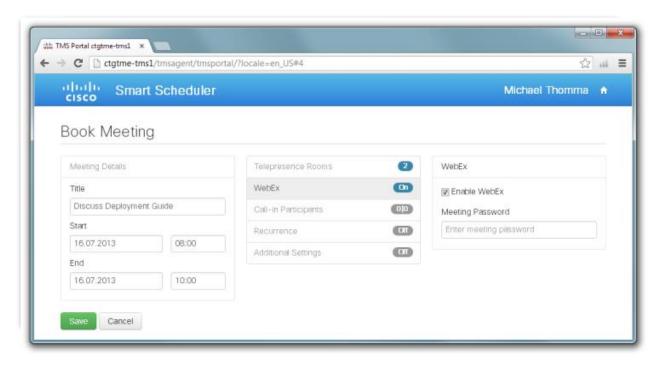
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#### TMS Smart Scheduler

- New tool replacing the existing TMS Web scheduler
- Browser based, tested on PC and Mobile devices including iPad or iPhone
- Part of TMS Provisioning Engine (TMSPE)





#### WebEx Scheduling Mailbox

- For any Email client connecting to Exchange, including Outlook for Mac, iPad or mobile phone clients, or Outlook Web Access
- WebEx Scheduling Mailbox is an Exchange Mailbox designated in TMSXE to add WebEx to any TelePresence Meeting
- To schedule, organiser creates invite with TelePresence rooms/resources and includes WebEx Scheduling Mailbox
- Can be any name (e.g., Add WebEx or Cisco). TMSXE keeps this mailbox empty, allowing overlapping scheduling
- A-synchronous scheduling, only the organiser receives email with details, has to cut/paste into invite for other participants



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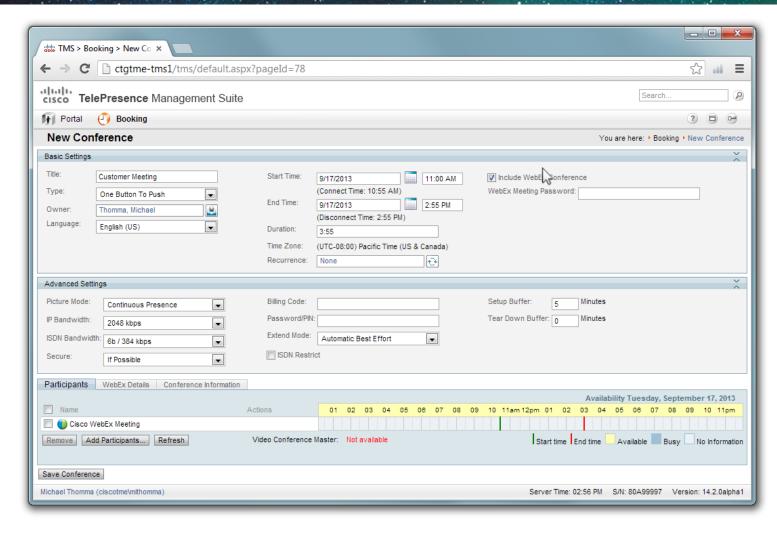
WebEx Scheduling Mailbox



Example invite from Outlook on Mac using scheduling mailbox method



TMS Admin Booking

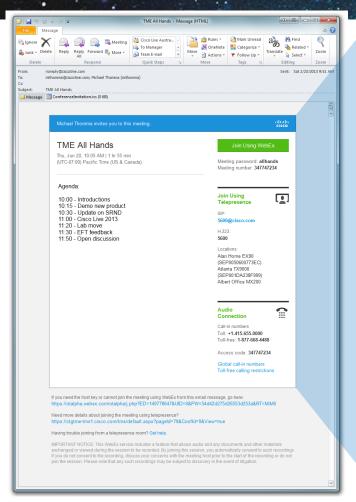


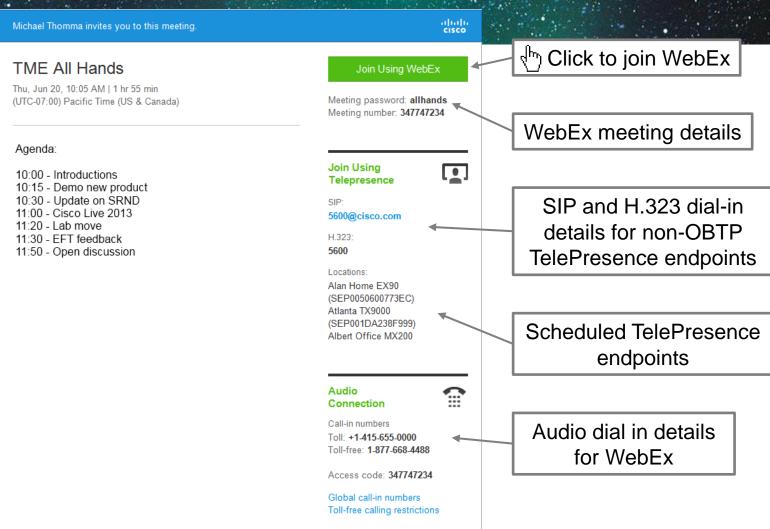


TMS Booking API

```
<ExternalConference>
  <WebEx>
    <MeetingKey>string</MeetingKey>
    <SipUrl>string</SipUrl>
    <ElementsToExclude>None or MeetingPassword or HostKey or LocalCallInTollFreeNumber or GlobalCallInNumberUrl/ElementsToExclude>
    <MeetingPassword>string</MeetingPassword>
    <JoinMeetingUrl>string</JoinMeetingUrl>
    <HostMeetingUrl>string</HostMeetingUrl>
    <HostKey>string</HostKey>
    <JoinBeforeHostTime>string</JoinBeforeHostTime>
    <Telephony xsi:nil="true" />
    <TmsShouldUpdateMeeting>boolean</TmsShouldUpdateMeeting>
    <SiteUrl>string</SiteUrl>
    <UsePstn>boolean</UsePstn>
    <OwnedExternally>boolean</OwnedExternally>
    <Warnings xsi:nil="true" />
    <Errors xsi:nil="true" />
  </WebEx>
</ExternalConference>
```

#### **Confirmation Email**



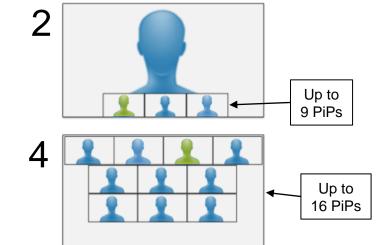


User experience with TelePresence Server

User experience with TelePresence Server







- One WebEx user visible at a time ( )
- If WebEx user is active speaker they are shown in larger active speaker window (applies to layouts 1-3)
- The last speaking WebEx user is visible



TelePresence User's Perspective

Content from TP system or WebEx sent on separate channel via BFCP, TIP or H.239

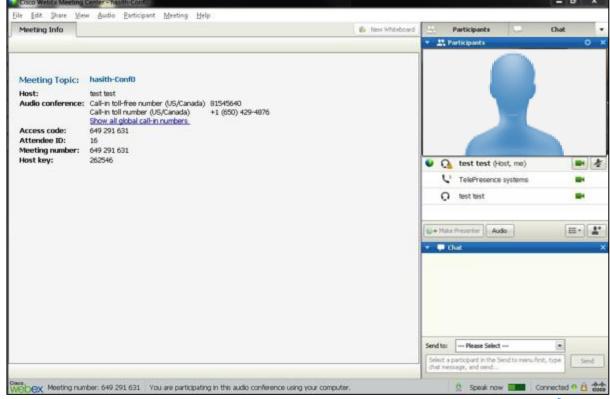


User experience with TelePresence Server

- Full-screen view of TelePresence endpoints seen (1), when TelePresence endpoint is the active speaker
- Video of the active speaker from TelePresence Server:
  - Video: qCIF to 720p
  - Content: TS3.0 XGA to 720p
- Video resolution may downgrade to preserve best experience for all



WebEx User's Perspective



User experience with TelePresence Server

WebEx Meeting Centre full screen "Theater View"

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WebEx User's Perspective



endpoint is active speaker



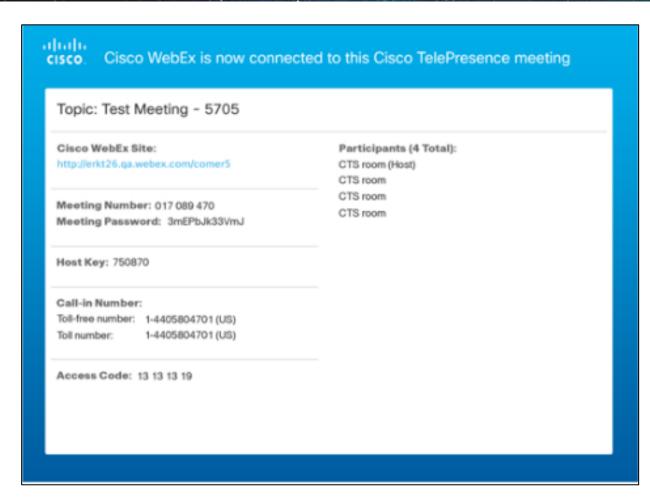
#### Data Sharing Experience

- Automatic content sharing between all WebEx and telepresence endpoints
- Sharing from WebEx supports the ball being grabbed by any WebEx user, or ball being passed by host (customer option)
- Host ID published in welcome screen allowing remote user to reclaim host role
- TelePresence user uses usual process to start data sharing,
   TelePresence endpoint automatically 'grabs' the ball to start presenting





Welcome screen for TelePresence endpoints

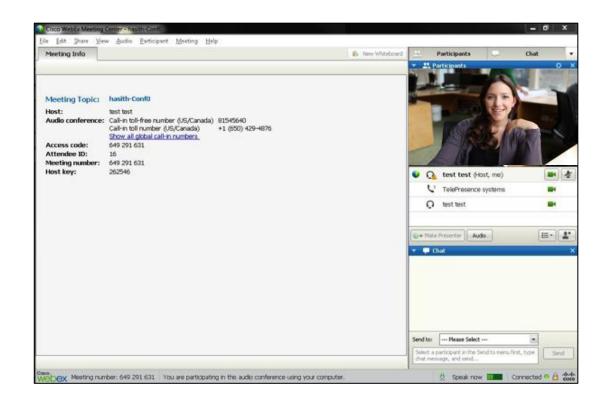


- The WebEx welcome screen is displayed on dedicated data-share monitor or as PiP for single screen
- Provides notification to TelePresence users that WebEx is connected
- Displays WebEx meeting info and WebEx participants list
- Admin option in T29 planned to disable welcome screen as content is maximised by default, creating non desired user experience for single screen endpoints



Without content being shared

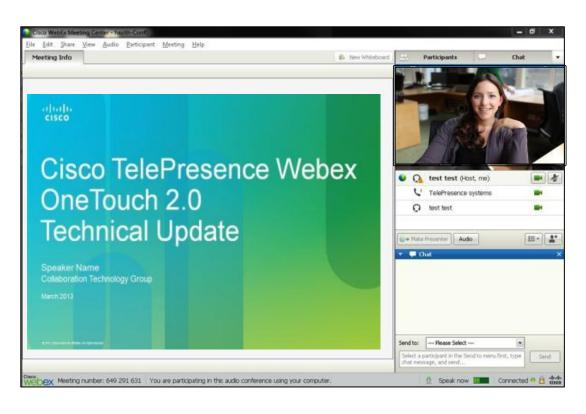






With content sharing







#### Endpoints

Endpoints can be registered to CUCM or VCS

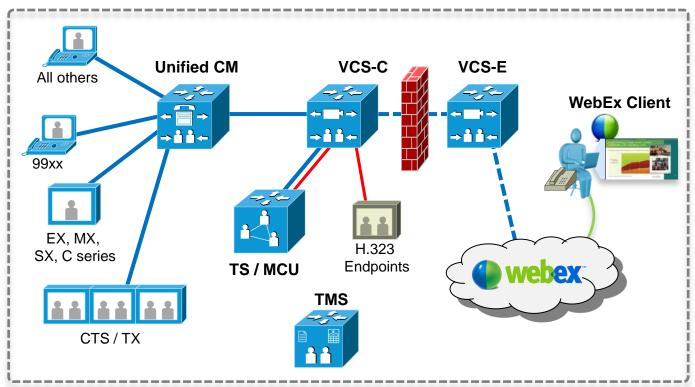
| Endpoint Type                                | ОВТР               | Automatic<br>Connect |
|--|--------------------|----------------------|
| CTS, TX Series                               |                    |                      |
| EX/MX/SX/C Series registered to CUCM         |                    |                      |
| EX/MX/SX/C Series registered to VCS          |                    |                      |
| Jabber, MXP-Series, T-Series, or Third party | ×                  |                      |
| WebEx Meeting Centre or Mobile Clients       | Click to<br>Launch | ×                    |



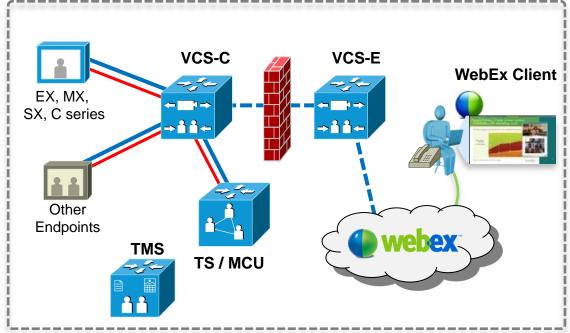
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Call Control

#### **Preferred Architecture**



#### Also supported with VCS only



SIP SIP TLS H.323 Media



#### **Audio Options**

- WebEx Audio
  - WebEx provided audio bridges, small share of WebEx customers. Position WebEx Audio for a single vendor solution. Can be VoIP or PSTN Connection.
- Telephony Service Provider (TSP) Audio provided by Service Providers
  - Audio bridges provided by different SP's around the world including BT, Qwest, Intercall, etc.
     TSP is intelligent link between WebEx cloud and audio bridge providing advanced features.
  - Highest percentage of WebEx customers use this option.
- WebEx Cloud Connect Audio
  - New WebEx offering for large enterprise customer with SIP trunk between customer prem and WebEx audio data centre
- Third party audio (without TSP)
  - SP audio bridge services without TSP link, where WebEx and Audio are not linked during call, nor is callback service provided. Not supported do NOT position.

#### Audio options

- WebEx audio via VoIP (SIP based via Expressway) or PSTN where required by in-country rules
- TSP Audio with MCU 4.4 or TP Server 3.1
- TSP partners; Level 3, PGI, BT, InterCall, Verizon, Arkadin plan to test in Cisco lab for certification starting in Q2CY13
  - Status of TSP partners on IWE page
- If your customer's TSP not in list
  - During A2Q process get TSP involved
  - Get TSP partner to be certified in Cisco AST lab
  - Minor integration development required by TSP
  - Need 1 month to plan, develop and schedule test
- CCA audio is not yet supported



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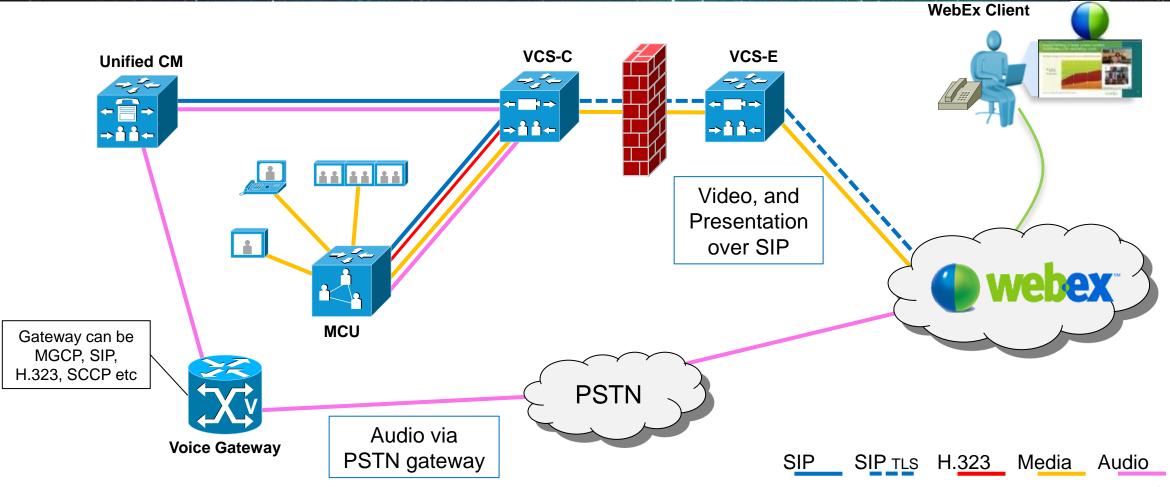
#### Audio Options

- The TelePresence bridge always calls out to WebEx for video and audio. TMS tells the bridge when & what to dial.
- WebEx audio customers supported with TelePresence MCU and TelePresence Server with audio over SIP/IP via Expressway (WebEx mixes audio for PSTN call-in users).
- TelePresence MCU or TS will support TSP/PSTN optionally with this solution.
  - Two legs (ports) from TelePresence MCU/TS:
    - 1) Video & Content via SIP though Expressway
    - 2) Audio via PSTN Gateway.
- TSP audio support is planned for both CUCM (ISR with digital trunks using MGCP or SIP) or VCS (GW 3201 and MSE 8321) registered ISDN gateways.
- TSP Audio customers have to check with their Audio Service Provider for WebEx enabled TelePresence TSP feature capability.

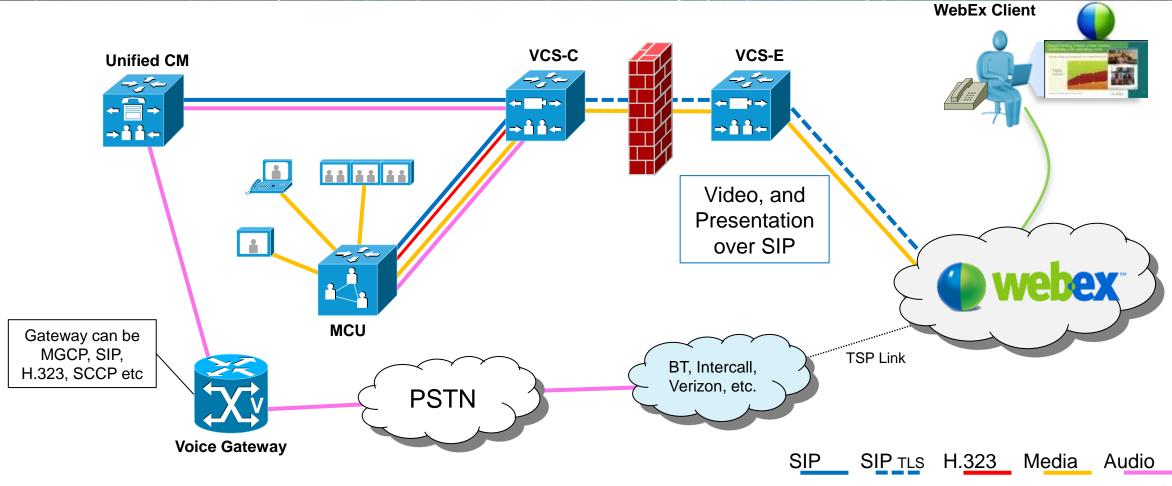


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#### Audio via PSTN



#### TSP audio



#### Audio solutions FAQs

- How to address MeetingPlace integration questions?
  - Our plans are to offer audio via the WebEx Meeting Server premise based offering in addition to WebEx or TSP audio. No plans for supporting TSP with the existing MeetingPlace products.
- Is WebEx Cloud Connect supported?
  - It is planned to support Cloud Connect customers with audio and video from customers site to WebEx
- What about WebEx node ASR?
  - WebEx node on ASR does not support WebEx enabled TelePresence meetings. WebEx node can still be used for WebEx only meetings.



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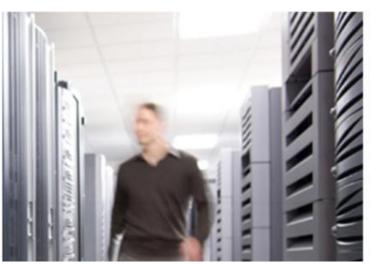
#### Audio solutions FAQs

- How to address MeetingPlace integration questions?
  - Our plans are to offer audio via the WebEx Meeting Server premise based offering in addition to WebEx or TSP audio. No plans for supporting TSP with the existing MeetingPlace products. WebEx enabled TelePresence integration with WebEx onpremise product is planned.
- Is WebEx Cloud Connect supported?
  - It is planned to support Cloud Connect customers with audio and video from customers site to WebEx
- What about WebEx node ASR?
  - WebEx node on ASR does not support WebEx enabled TelePresence meetings. WebEx node can still be used for WebEx only meetings.







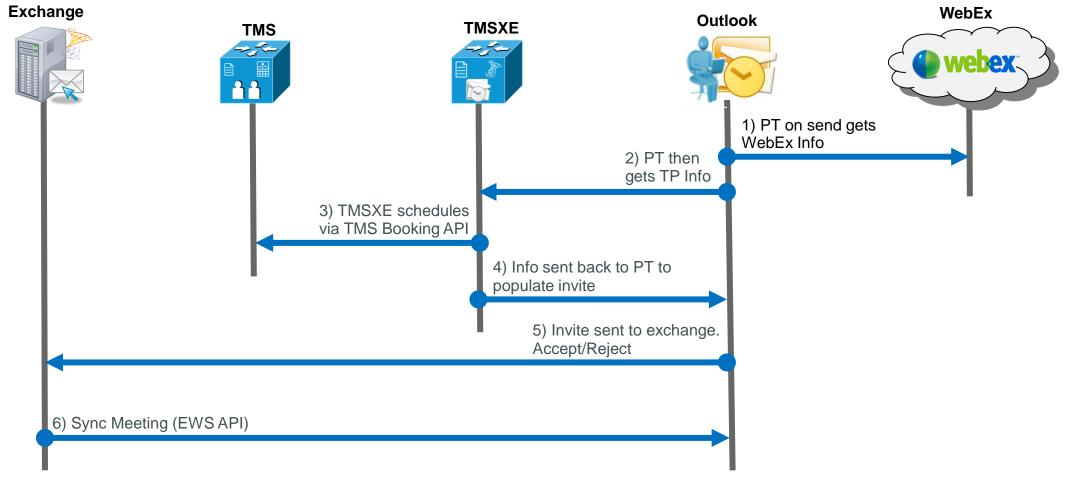






Behind the Scenes for Scheduling

Scheduling – synchronous with productivity tool (PT)

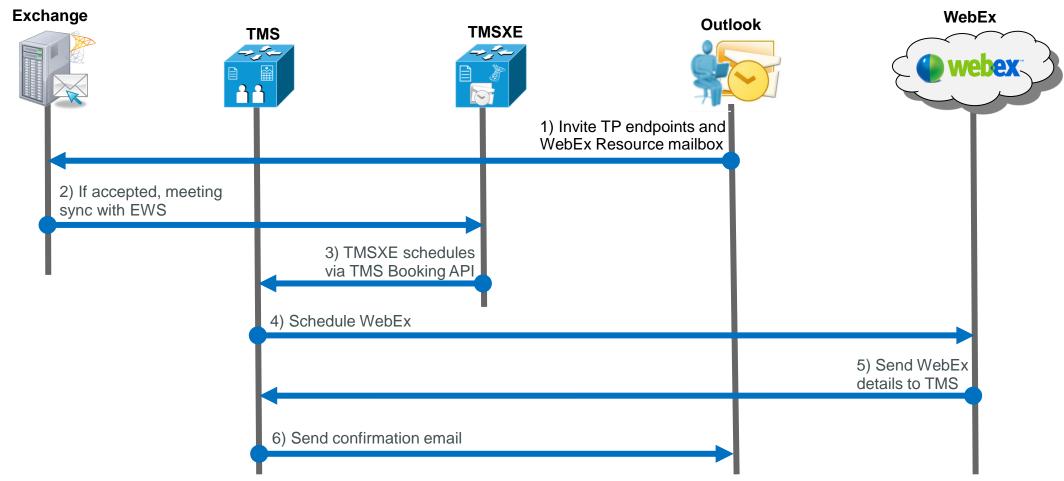


Scheduling – synchronous with productivity tool (PT)

- On sending the invite, PT connects to WebEx first for scheduling WebEx meeting. PT then connects to TMSXE for TelePresence scheduling. TMSXE schedules and updates TMS via the Booking API.
- PT gets meeting details from both WebEx and TMSXE to add to Outlook invite before sending to Microsoft Exchange.
- Invite goes to MS Exchange to be accepted/rejected by standard acceptance resource rules.
   Invite is also copied to any additional recipients.
- TMSXE will see invite from Exchange and process as a meeting scheduled by Productivity Tools.
- Organiser may receive email from both WebEx and TMS based on admin settings confirming the meeting



Scheduling – asynchronous using WebEx mailbox



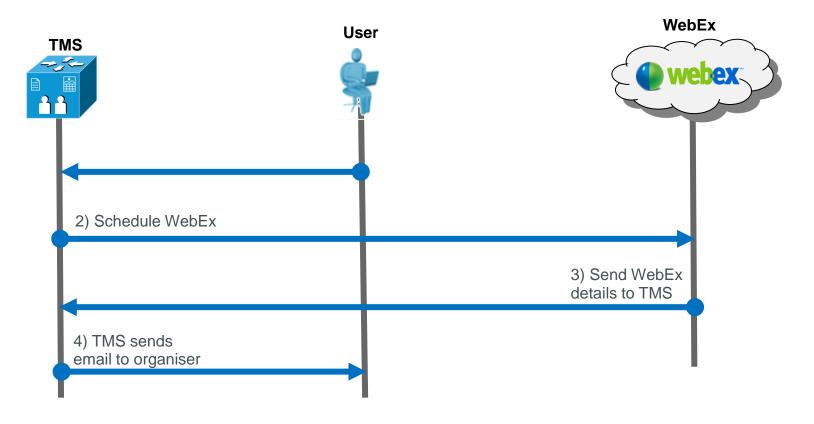
Scheduling – asynchronous using WebEx mailbox

- TMSXE, for Exchange only, will add WebEx to a TelePresence scheduled meeting by including the WebEx Scheduling Mailbox in the invite sent to Exchange.
- Admin defines mailbox resource name, e.g. \*?\*@example.com.
- Can be used by any client supported by Microsoft Exchange including Outlook 2011 for Mac, iPad, mobile phones, or Outlook Web Access.
- No option to set additional TelePresence Conference dial-in ports, or change defaults using this method
- Email to organiser a few seconds/minutes later confirms both WebEx and TelePresence resources available. Details have to be cut/paste to same invite or another invite for meeting participants.



#### Scheduling – asynchronous using Smart Scheduler

Users login to Smart Scheduler hosted by TMSPE (required)





Scheduling – required services

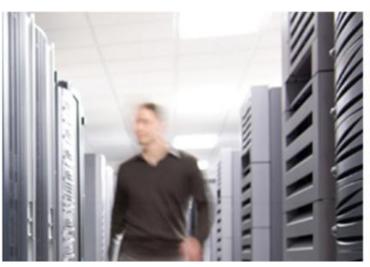
#### Must enable these services for WebEx enabled TelePresence scheduling:

- TMS 14.3 or higher with WebEx Configured (Multiple WebEx sites supported)
- PT user can't change WebEx site in this release, set by WebEx Site
- TMSXE 3.1 if using Exchange integration including Productivity Tool, installed on companion server (TMS Core and Extensions are not recommended virtualised on same server)
- TMSXE standard licensing/keys which includes booking API enabled plus new license feature key
- TMSXE includes support for WebEx Scheduling Mailbox
- TMS web based Smart Scheduler requires TMS Provisioning Engine (TMSPE) on TMS Server, no additional licensing for just Smart Scheduler. Find-Me or other PE features require their licensing feature keys

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#### Security considerations

- All communications between customer on-prem and WebEx are encrypted via VCS as per Cisco's Minimum Encryption Standard requirements.
- Customer's WebEx-facing VCS-E shall present a TLS certificate signed by a trusted Certificate Authority.
- Self-signed certificates cannot be used.
- For details on how to configure a client/server certificate, refer to the "Certificate creation and use with Cisco VCS Deployment Guide" at the following location:
- https://www.cisco.com/en/US/docs/telepresence/infrastructure/vcs/config\_guide/Cisco\_VCS\_Certificate\_Creation\_and\_Use\_Deployment\_Guide.pdf



#### WebEx considerations

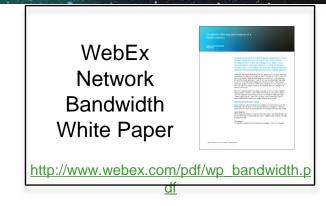
- North America at FCS in April 2013
- Europe data centre enabled Feb 2014
- APAC data centre turn up planned
- Any concerns from international customers on this should contact local account team



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#### **WebEx Clients Bandwidth Information**

- The bandwidth required to send WebEx enabled TelePresence video is higher.
- SVC technology is used in the client software and uses multilayer frames to send video and allows the receiving client to automatically select the best possible resolution to receive video.

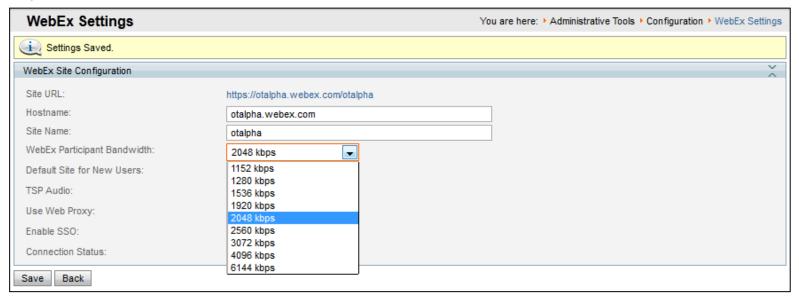


Actual bandwidth used is less then the maximum and is variable.

| Experience           | Resolutio<br>n  | Max bit rate (send) | Max bit rate (receive) |
|----------------------|-----------------|---------------------|------------------------|
| High Definition (HD) | 720p (1280x720) | 3.0 Mbps            | 2 Mbps                 |
| High Quality (HQ)    | 360p (640x360)  | 1.5 Mbps            | 1 Mbps                 |
| Standard Quality     | 180p (320x180)  | 500 kbps            | 500 kbps               |
| 6 thumbnails         | 90p             | N/A                 | 500 kbps               |
| 1 thumbnail          | 90p             | 50 kbps             | N/A                    |

#### Bandwidth from On-Premise to WebEx

In TMS, you can select the maximum WebEx participant bandwidth:



- Set to minimum 4MB for 720p plus content per concurrent meeting.
- In addition you can limit WebEx video at the site level (see WebEx site administrator guide) to HQ video or lower resolution.

# **Configuration & Troubleshooting**

 http://www.cisco.com/en/US/docs/telepresence/infrastructure/tms/config\_guide/ webex\_enabled\_telepresence/cts\_webex\_solutions.pdf

Troubleshooting

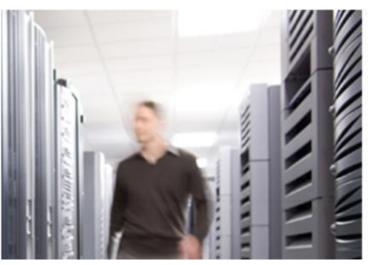
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- Contents
- Verifying and Testing
- Cisco WebEx Site Administration Online Help
- Troubleshooting Tips
- Problems with Scheduling a Meeting
- Problems with Starting or Joining a Meeting
- Problems During a Meeting
- Managing System Behaviour
- Managing the Cisco WebEx Video View Window













Single Sign On (SSO)

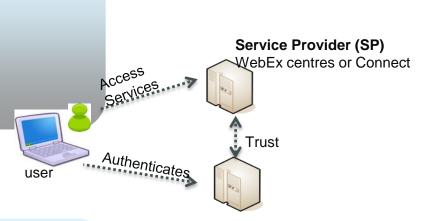
#### What is Federated SSO?

#### Federated SSO...

- Users single authentication token or ticket is trusted across multiple IT systems or Organisations eliminating the need for users to reauthenticate across services Other terms: cloud Single Sign On, Internet Single Sign On, web SSO
- Based on standards: WS Federate, OpenID, SAML 1.1, SAML 2.0

#### Federated SSO benefits include...

- Ability to offer secure, seamless, scalable, standards based cloud SSO
- Improved user experience and reduced administrative costs due to removal of additional user password management
- platform and technology agnostic



Identity Provider (IdP)
ADFS / PingFederate...



#### Cisco Collaboration Cloud SSO

Allows companies to use their on-premise Identity Management System to simplify the access & management of Cisco Collaboration Cloud services using Federated SSO

#### With Cisco Collaboration SSO:

Secure login to WebEx cloud services using corporate credentials

Automatically create and update user accounts

#### **Benefits**

- •Eliminate the need for users to maintain and remember multiple usernames and passwords
- Increase security as no WebEx/Connect passwords will be stored or transmitted
- •Reduce IT helpdesk costs related to maintaining account information for Collaboration Cloud Services





# Cisco Collaboration Cloud SSO

#### Capabilities

|                | WebEx Centres   | WebEx Meetings  | Connect   |
|----------------|---|---|---|
| Standards      | SAML 1.1, SAML 2.0, WS -<br>Federate  | SAML 2.0, WS - Federate                               | SAML 2.0, WS - Federate   |
| Clients        | Windows, Mac, iOS,<br>Android, Blackberry, Cius   | Windows, Mac, iOS, Android,<br>Blackberry, Cius       | iOS, Windows, Mac, web<br>IM, Blackberry, Android<br>(future), Cius |
| SSO mechanism  | SP-initiated, IdP-initiated   | SP-initiated, IdP-initiated                           | SP-initiated, IdP-initiated   |
|                | Productivity Tools SSO,<br>Single Logout (centres site)                                     | Productivity Tools SSO, Single Logout (meetings site) | NA  |
| Other features | Delegated Authentication, Integrated Windows Authentication, Automatic Account provisioning |   |   |



#### Cisco Collaboration Cloud SSO

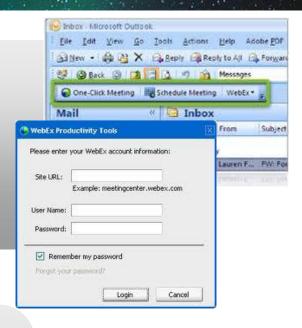
#### WebEx Productivity Tool Authentication

- •WebEx productivity tools allows users to schedule and launch meetings from Outlook.
- •Productivity tools supports SAML 2.0 and WS-Federate for SSO

#### Single Logout

•WebEx as a SP can initiate a single logout request to the customer's IdP which will propagate the logout requests to other SPs

Supported for SAML2.0 and WS-Fed



# TMS Partner Delegated Authentication to Webex

#### TMS User Authentication for Scheduling WebEx Events

- Each TMS user must have WebEx user name defined for scheduling.
- Setup Delegated Authentication certificate on TMS to WebEx Cloud for user Authentication without SSO deployed as option. (TMS only stores user name)
- If the WebEx site has SSO enabled, Delegated Authentication must also be configured in WebEx provisioning to enable TMS Scheduling

#### **Configuration Steps**

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- TMS Admin generates public and private certificate pair, sends public key to WebEx customer success team during site provisioning.
- WebEx gives customer this infofor WebEx and TMS admin configuration;
  - ✓ Partner Name
  - ✓ Partner Issuer (IdP ID)
  - ✓ WebEx SAML Issuer (SP ID)

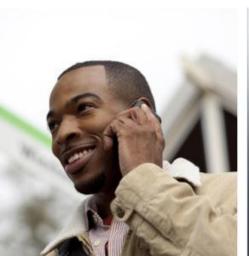


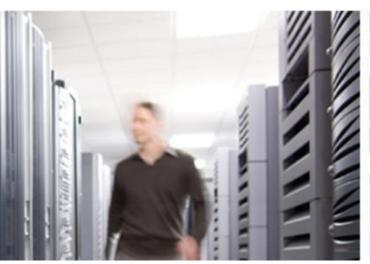
# **SSO Deployment Glossary**

- IdP Identity Management System (customer premise)
  - Common vendors: Ping Identity, CA SiteMinder, ADFS, Oracle Access Manager
  - Other systems are supported: as long as conform to SAML specs)
- SAML 2.0 compliant or meets WS Federation 1.0 standard
- X.509 certificate uploaded to the WebEx Cloud
- Review documentation very important
- Option to use Cisco Advanced Services Design, Configuration and Setup
  - Pre-deployment testing
  - Technical Expertise













# Existing WebEx Customers

#### Migrating Existing WebEx Customers

- Existing customers may need to be migrated to a different cluster which might use slightly different dial-in numbers for meetings.
- Customers using meetings hosted in US, but with a high volume abroad may experience minor delays in VoIP and video abroad. A cloud feature - Global Distributed Meetings can not be WebEx enabled TelePresence meetings.
- Provisioning of the new WebEx enabled TelePresence solution must be done in maintenance windows.

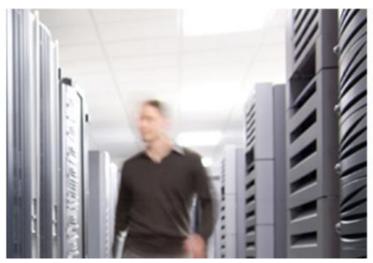
# **Existing WebEx OneTouch 1.0 Customers**

- Onetouch 1.0 is not available to new customers, WXeTP 2.0 is much better solution
- Existing customers using OneTouch 1.0 with CTMS & CTS-Man need to start planning for migration to WebEx Enabled TelePresence infrastructure
- No plans to support WebEx Enabled TelePresence on CTS-Man or CTMS
- TMP Discount Program for CTS-Man to TMS, and CTMS to TelePresence Server













Ordering

#### WebEx with TelePresence Ordering

- No surcharge for WebEx with TelePresence integration
- Zero dollar SKU still required for provisioning WebEx Site, orders placed on compliance hold for mandatory A2Q process
- Use L-WBX-TPINT with new WebEx site orders
- Use L-WBX-TPINT= for adding on to existing WebEx sites
- Above SKU will also include TMS L-TMS-WXOT for enabling WebEx
- Supports unlimited number of Concurrent WebEx with TP Meetings
- Before order is released partner and account team needs to fill out A2Q questionnaire and submit for review



#### TMS Ordering

- TMS Server requires WebEx Scheduling License Feature Key
  - Zero dollar cost, auto expanded/included with WebEx provisioning L-WBX-TPINT
  - New TMS customers order TMS in standard fashion first
  - On WebEx provisioning new feature key for TMS sent to customer as elicense
  - Customer or partner has too install feature key before WebEx Scheduling or test call
- → TMS web Smart Scheduler requires TMS-PE add-on install, no TMS-PE endpoint or licensing required. Customers with TMS support contact can get TMS-PE Software add-on from Cisco.com



# VCS Expressway and Traversal Licensing Ordering

- VCS-E Standard Traversal Licensing, no surcharge for WebEx + TelePresence meetings. Expressway x8 only via CUCM does not support WXeTP today
- One regular traversal license required per concurrent meeting/call
- Customer can use existing Expressway, appliance or virtualised, or build out new services just for this integration
- Expressway has enforced licensing, if not enough licenses at time of call, integration between TelePresence and WebEx will fail
- TMS does not track or reserve at scheduling time the number of traversal licenses available – Make sure you have enough!



#### Security Certificate for Customers VCS Expressway

- VCS-E in connecting to WebEx requires a security cert to connect
- Needs to be from trusted root level CA, no self signed certificates
- See WXeTP Config Guide and VOD's for details
- Many partners have trouble at this stage, watch the vod's for help
- http://www.cisco.com/en/US/products/ps11338/products\_installation\_and\_configuration\_guides\_list.html



# **TelePresence Multipoint Bridge Ordering**

- Standard pricing and ordering for TelePresence Server or TelePresence MCU
- Each concurrent meeting using WebEx Audio via SIP, will consume one additional bridge port, regardless of number of video or WebEx endpoints
- Each concurrent meeting using PSTN/TSP audio will consume two additional bridge ports, regardless of number of video or WebEx endpoints
- Make sure customer has enough bridge ports for anticipated meetings
- TMS will scheduled and track all necessary ports
- The Cisco Conductor is not supported for WebEx integration in this release, nor TP Server virtual edition or MM300
- All scheduled bridge resources with WebEx has to be registered to VCS-C



# Cisco Advanced Services for Planning, Design and Implementation Services

Pre-Implementation Assessment

Usage and Network Path Analysis

Analyse network and usage pattern. Customer fills out questionnaire

Implementation Service

Planning, Design, Deploy

Requirements planning, upgrades, configuration design, provisioning, testing

Post-Implementation Support

Operation and Optimisation Services

Roadmap planning, service strategy, upgrade management, dedicated contacts, process management









Significantly Improving the Collaboration Experience



#### References

- Overview Page WebEx Enabled TelePresence http://www.cisco.com/en/US/netsol/ns1230/index.html
- Partner Page
  - Quick Reference Guides for Scheduling
- http://www.cisco.com/en/US/partner/netsol/ns1230/index.html#~Partners
- Partner Community Site
  - Process Overview
  - Technical Presentations
  - Video's on Demand
  - »https://communities.cisco.com/community/partner/collaboration/webex/webex\_enabled\_teleprese\_nce
- Ask-WebExandTP@cisco.com alias setup for the field and customers to ask questions

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Q & A

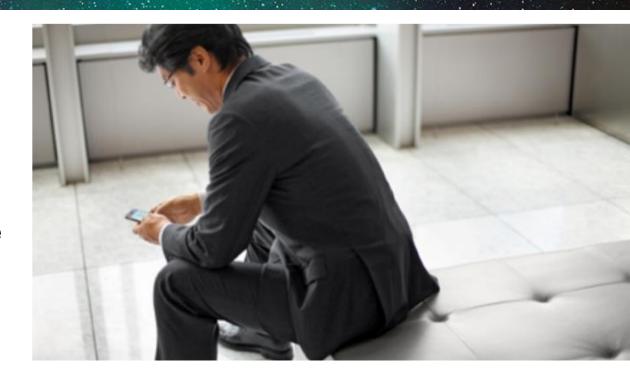
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