



*TOMORROW
starts here.*

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Everything You Wanted To Know About CMR

BRKUCC - 2677

Miro Polakovic – Senior Technical Marketing Engineer

#clmel

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Agenda

- Introduction to Collaboration Meeting Room
- CMR Hybrid
 - Scheduling
 - Architecture and New Features
- CMR Cloud
 - User Experience
 - Architecture and Supported Scenarios
 - Licensing Model
 - Microsoft Lync Interoperability
- Comparison and Co-existence



Cisco Collaboration Strategy

Experience Centric



- Delightful experience
- Simplicity
- Common experience
- Mobile first - any device
- Hardware and software

Cloud Connected



- Cloud connectivity
- Hidden complexity
- Agility and flexibility
- Unifies workspaces:
physical and virtual

Value Extended



- Customer journey
- Investment protection
- Evolution, not revolution
- Standards based, open
and interoperable
- Cisco partner
ecosystem

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The Challenge



Let's Meet



How many people
in my meeting?



Where is everyone
joining from?



What devices
will be used?



How do I connect
everyone together?



In one meeting?

Converge and Simplify...



Collaboration Meeting Rooms Deployment Options

CMR Hybrid



TelePresence on
Premises plus Cisco
WebEx

CMR Cloud



Conferencing all
in WebEx Cloud



A long-exposure photograph of a city street at night. The foreground is dominated by vibrant, multi-colored light trails from moving vehicles, creating a sense of motion and energy. In the background, a modern pedestrian bridge with blue lighting spans across the street. Tall buildings with illuminated windows and balconies line the street, and several flags are visible on the left side. The overall scene is a dynamic urban environment.

CMR Hybrid

CMR Hybrid: WebEx and TelePresence Working Together

- Integrate Cisco On-Premises TelePresence and Cisco WebEx Cloud into one Enterprise solution;
- Expand your meetings to anyone - attend meetings using the most accessible collaboration technology (including mobile devices) – improve user experience and productivity – **easily enable B2B and B2C!**
- Simplified & integrated scheduling (e.g. WebEx Productivity Tools).

*Full collaboration
experience with 2-way
audio/video/content sharing*



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“Problems are solved faster so installers can complete more work. Our clients are happier. So they’re more likely to buy from us again.”

Massimiliano Tesser
CIO of CAME Group

CMR Hybrid Scheduling

Four option for scheduling a meeting

Synchronous

- Outlook with Exchange using **WebEx Productivity Tool** plug-in for Windows
- TMS Web **Smart Scheduler**
- WebEx **Scheduling Mailbox**; any mail client sending invite via Microsoft Exchange with TelePresence rooms and a Scheduling mailbox to mark the meeting as WebEx enabled
- **TMS Admin Booking Interface** available to any user with TMS account (mostly for help desk/concierge)

Asynchronous

With asynchronous scheduling, only the organiser receives email with details, they then have to copy/paste to send to other participants

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Scheduling and User Experience

WebEx Productivity Tool

- Add participants, rooms, subject and body in usual fashion;
- Select to add WebEx with advanced settings;
- The TelePresence Rooms finder makes adding rooms easy;
- Include dial-in ports for people to join from Jabber or personal endpoints.

The image shows a screenshot of the WebEx scheduling interface. At the top, a 'Format' window is open, showing a 'Meeting Options' button. A callout box points to this button, stating: 'Check this box to add a WebEx meeting.' Below this, a blue box explains: 'After adding WebEx and TelePresence to your meeting, an integrated meeting is scheduled. And the joining information is included in one email message.'

At the bottom left, a 'One-Click Meeting' window is shown with the text: 'In other places, just look for the WebEx ball.' Below this are icons for 'Microsoft Office', 'Browsers', and 'Google Talk'. A callout box points to the 'Add TelePresence' button, stating: 'Add TelePresence resources to your meeting.' Another callout box points to the 'Add call-in participants' field, stating: 'Some people may join using Cisco Jabber or their personal TelePresence systems. Specify 1 for each device.'

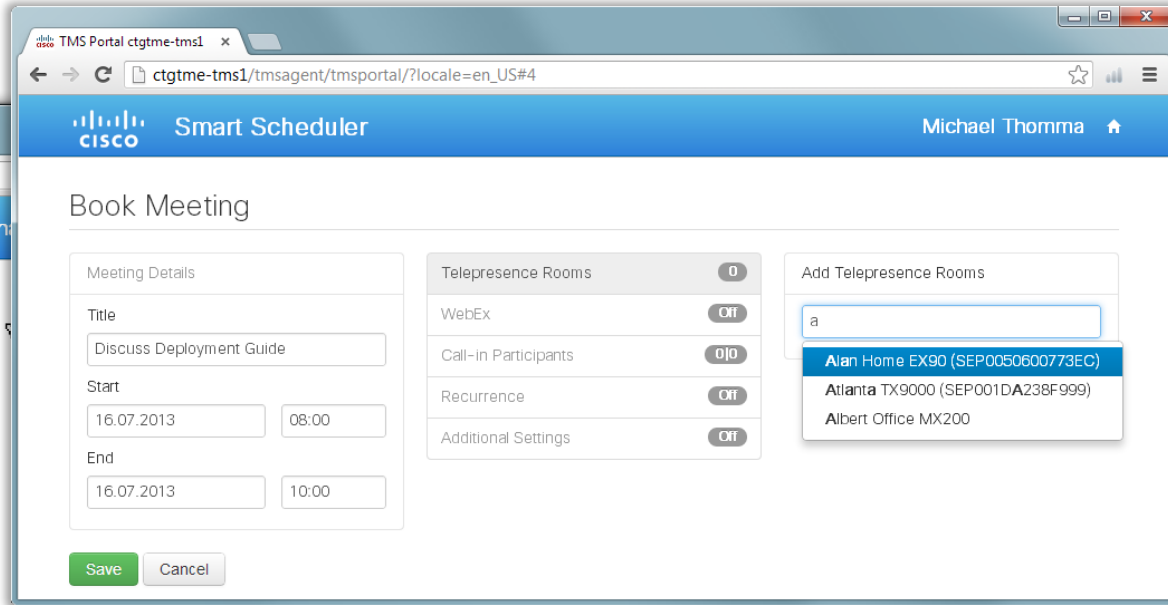
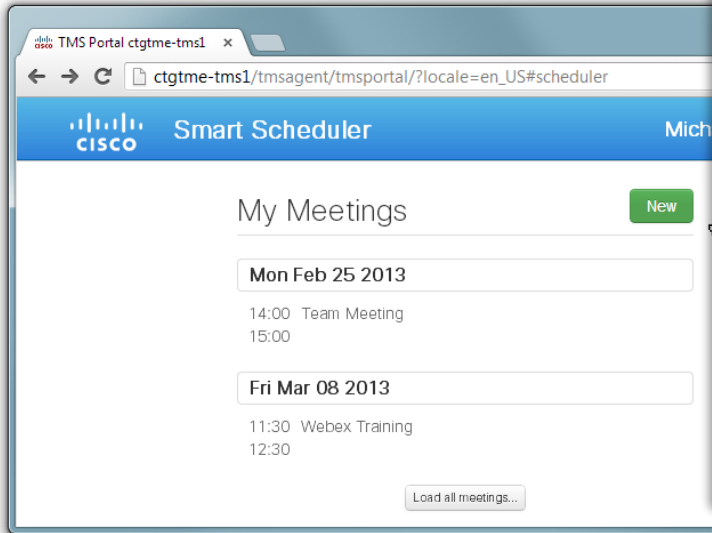
On the right side, the 'WebEx' settings panel is visible, showing a checked box for 'Allow people to join using WebEx', a 'Meeting Password' field, and a 'Select Alternate Host' button. Below this is the 'TelePresence' section with an 'Add TelePresence Rooms' button and an 'Add call-in participants' field set to 0.

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Scheduling and User Experience

TMS Smart Scheduler

- Scheduling a new meeting



Lotus Notes Integration for Scheduling

Based on ESNA CloudLink – Cisco Recommended for Lotus Notes

Today	<ul style="list-style-type: none">• Cisco TMS 14 and above integration with Notes 9.0+• Scheduling of TMS resources (no WebEx scheduling)
What & When	<p>CMR Hybrid to Notes integration to provide:</p> <ul style="list-style-type: none">• Unified scheduling of TMS and WebEx resources• Complete integration of WebEx resources <p>Currently planned for Q2CY2015</p>
How	<p>On Cisco GPL:</p> <ul style="list-style-type: none">• Perpetual license needed for TMS integration per each 25 TMS endpoints (includes first year support and upgrade rights);• License for maintenance and upgrade right for years 2, 3, n.

CMR Hybrid Scheduling

Scheduling CMR Hybrid is always personal, the user needs to own a host account on the WebEx site.

Two exceptions allow to schedule on behalf:

- Delegate (**manager/assistant model**)
 - The assistant needs to own a WebEx host account;
 - With given permission, the assistant can schedule, edit, cancel and start meeting;
 - Microsoft Outlook integration required (Productivity Tools);
 - How-To: enable delegate in the WebEx site and share the OL calendar with the delegate.
- Schedule on-behalf (**concierge model**)
 - The concierge agent doesn't require a WebEx host account.
 - Supported by the TMS Admin
 - How-To: in TMS Admin pick the WebEx host account you're scheduling on-behalf of.

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CMR Hybrid Audio Options

- **WebEx Hybrid Audio**

WebEx provided audio bridges, small share of WebEx customers. Can be VoIP or PSTN Connection but a PSTN-capable plan (Hybrid) is required: WebEx VoIP-only is not supported.

- **Telephony Service Provider (TSP) Audio**

Audio bridges provided by different SP's around the world including InterCall, Verizon, Arkadin, Telstra, etc. TSP is intelligent link between WebEx cloud and audio bridge providing advanced features. TSP Partners must be verified as CMR Hybrid compatible.

- **Cloud Connected Audio (CCA)**

WebEx Audio provided via SIP trunk instead of traditional PSTN connection, for larger WebEx customers. (note: CMR Hybrid cascade link uses SIP with Video on Internet connection, not via CCA today).



Applies to both CMR Hybrid and Cloud

A long-exposure photograph of a city street at night. The foreground is dominated by vibrant, multi-colored light trails from moving vehicles, creating a sense of motion and energy. In the background, a modern pedestrian bridge with blue lighting spans across the street. Tall buildings with illuminated windows and balconies line the street, and several flags are visible on the left side. The overall scene is a dynamic and modern urban environment.

CMR Hybrid – Architecture and New Features

CMR Hybrid Architectural Models

Three models supported:

1. VCS-centric deployment model
2. Unified CM-centric deployment model
3. TP Conductor and TP Server on Virtual Machine and Multiparty Media 310/320



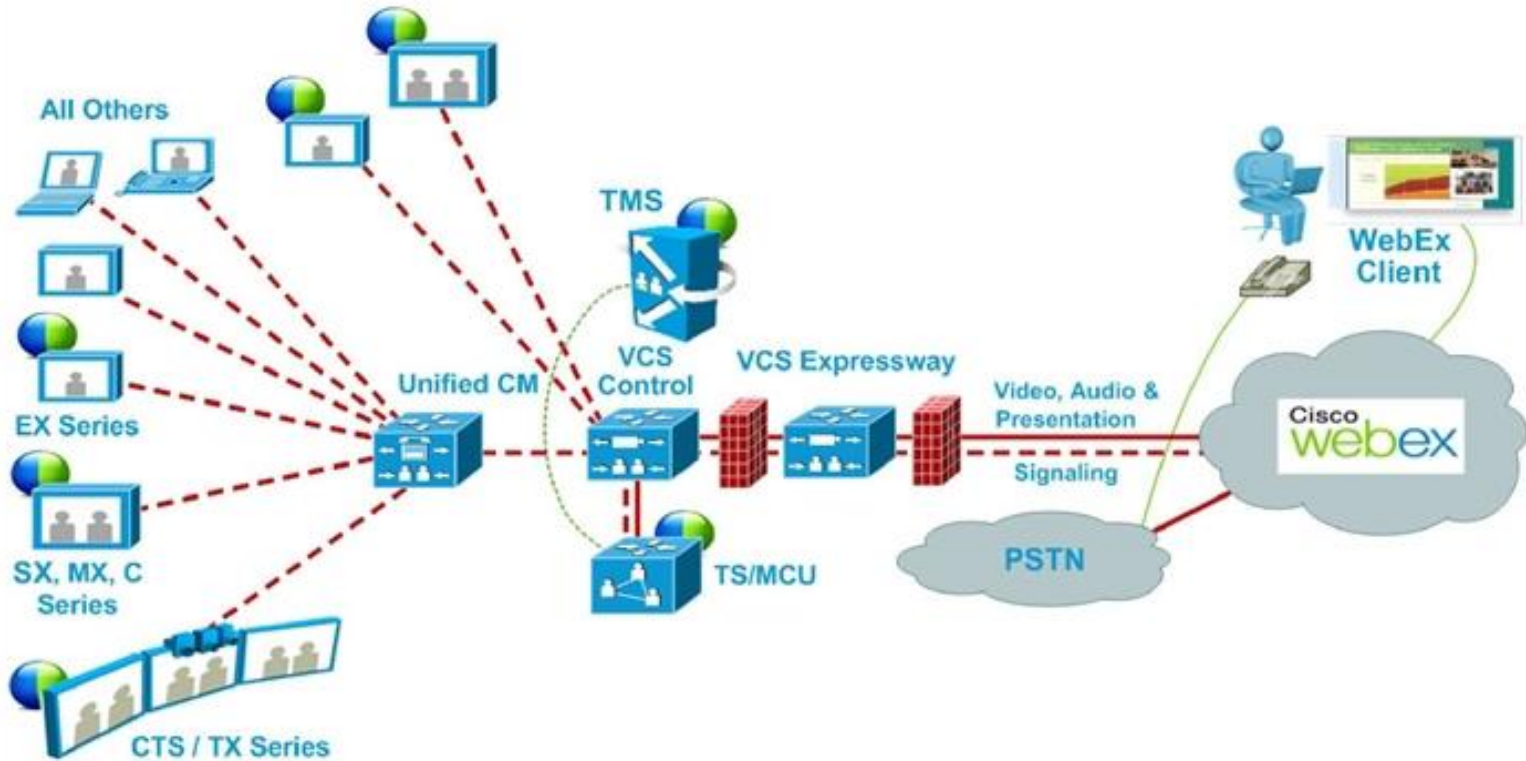
New

- Existing customers are not required to change to the new Unified CM-centric deployment model.
- New customers are highly encouraged to use the new Unified CM-centric deployment model.

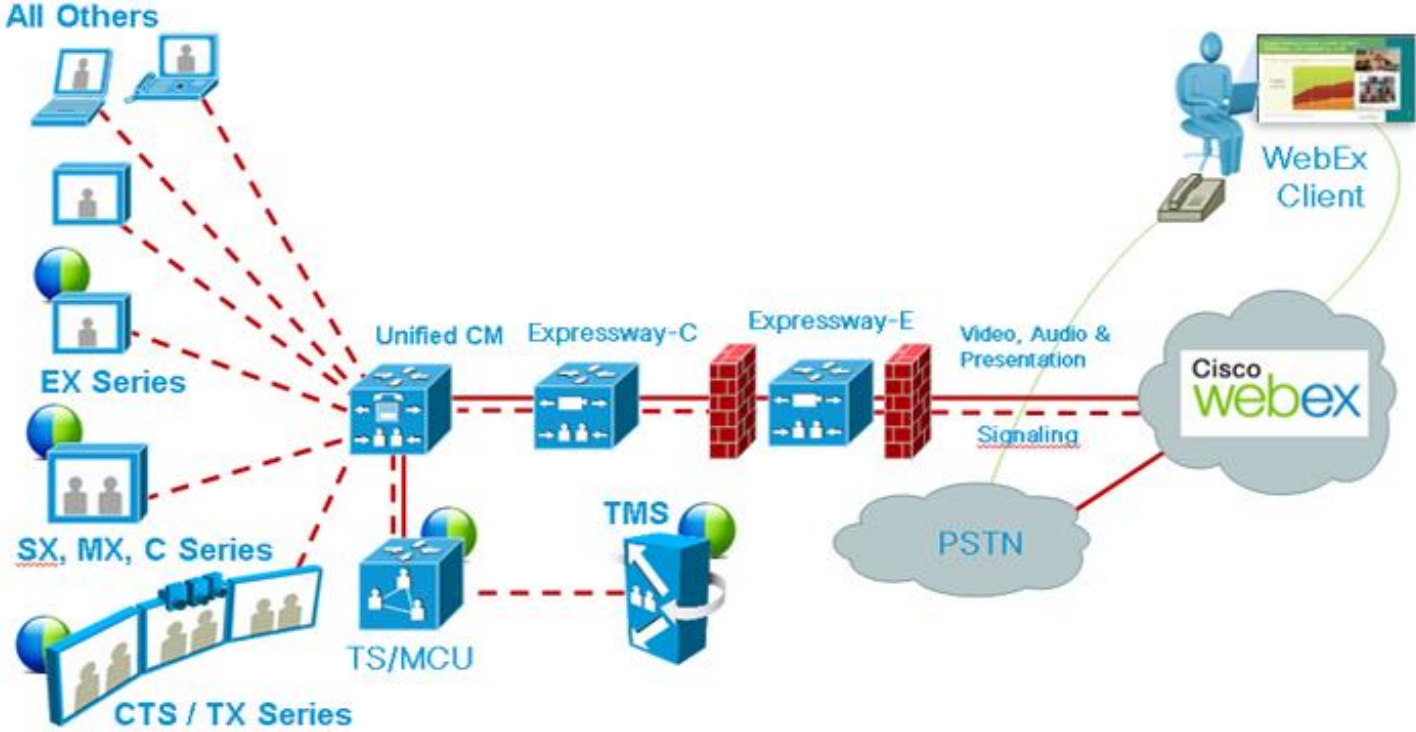


BRKCOL-2676 – Migrating from VCS to CUCM

VCS-Centric Deployment Model



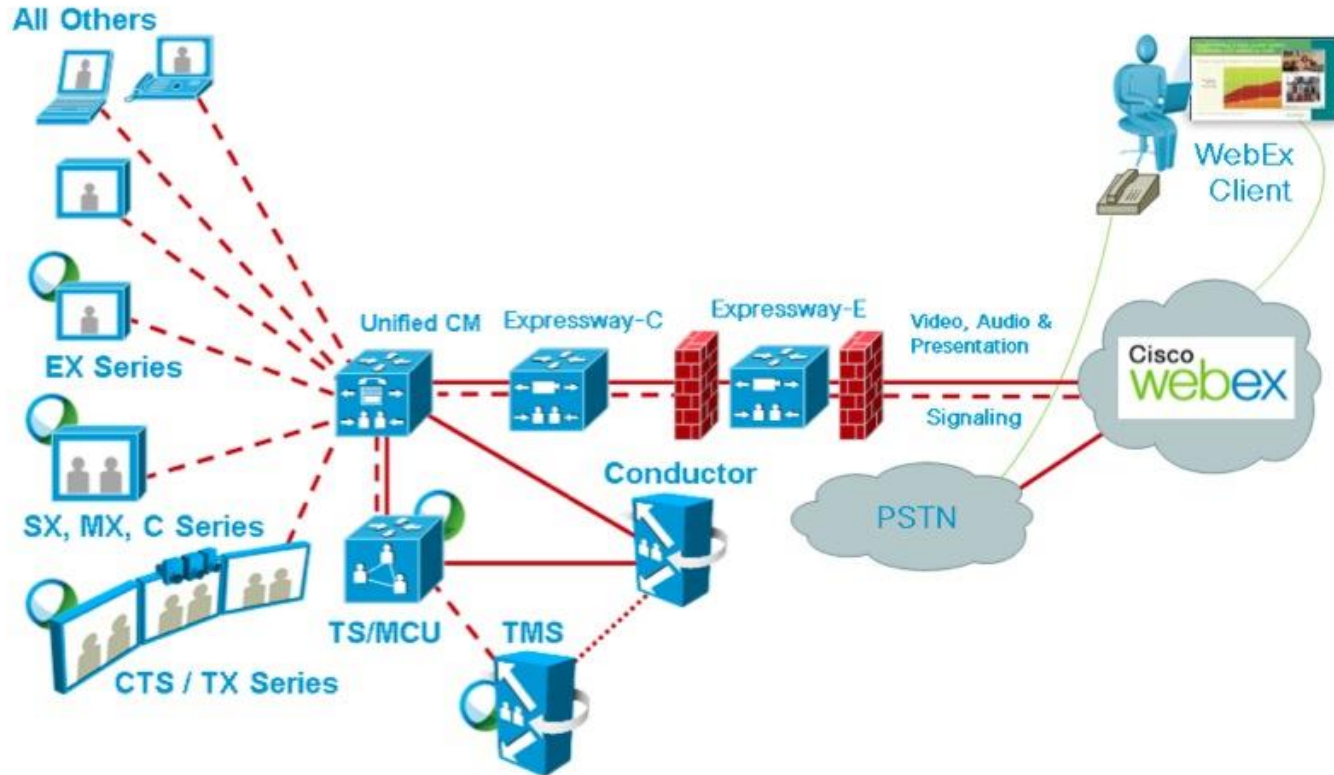
Unified CM-Centric Deployment Model



TP Conductor and vTP Server/300 Series

New

On both VCS and Unified CM-Centric model



Minimum Versions for CMR Hybrid

Component	VCS Centric	CUCM Centric	Conductor
WebEx Meeting Centre	WBS28 LD / WBS29	WBS28 Lockdown / WBS29	WBS29.11
CUCM	9.x / 10.5	9.1.2 / 10.5	9.1.2 / 10.5
VCS C/E	7.2.3 / 8.2.1	7.2.3 / 8.2.1	7.2.3 / 8.5
Expressway C/E	N/A	8.2.1	8.2.2 / 8.5
MCU	4.4	4.4	4.5
TelePresence Conductor	N/A	N/A	XC3.0
TelePresence Server	3.0 / 4.0 (7010/8710 only)	3.0 / 4.0 (7010/8710 only)	4.1 (all models incl. vTS & 300 series)
TMS	14.3.1+ / 14.4	14.3.1 / 14.4	14.6
TMS-XE	3.0	3.0	4.1
TMS-PE	1.2	1.2	1.4

Instantly Invite WebEx Users to CMR Premises



To include partners, customers or colleagues who wish to use web conferencing

Step 1

Create a WebEx link with a single click from your CMR user portal

Create WebEx Connection

Step 2

Distribute your meeting details

Step 3

Meet in your CMR with WebEx



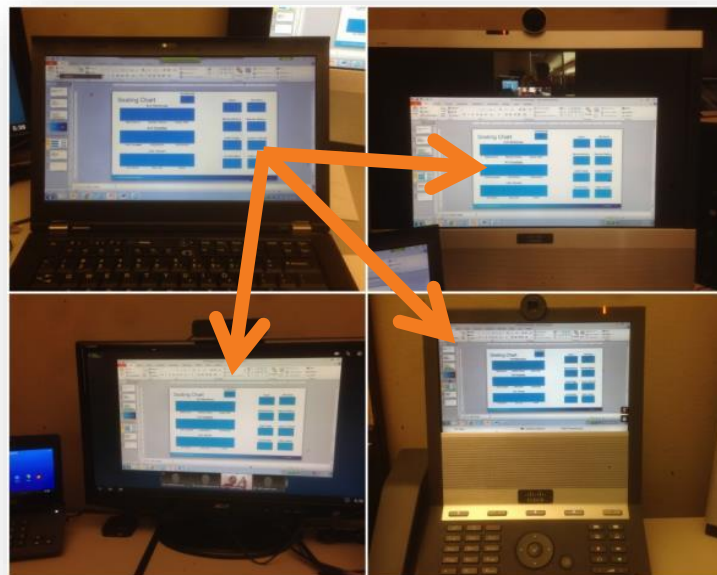
Presentation Share Quality Enhancement

Content shows full screen on TP endpoints

- Capabilities-based, negotiated resolution between TP endpoints, MCU/TS and WX;
- Share can cover entire TP endpoint screen on both 4:3 and 16:9 TP endpoints (aspect ratio is negotiated);
- Up to 720p resolution (since WBS29.8) and up to 1080p with TS and Conductor (CMR Hybrid only);
- Bandwidth: 3Mbps req'd at all WX clients to see 1080p share in CMR, 2Mbps req'd at all WX Clients to see 720p share in CMR.

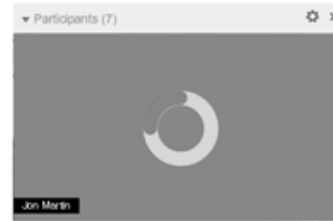


Applies to both CMR Hybrid and Cloud



Video Experience Enhancements

- Starting frame rate for thumbnails and active video to be 15 fps, changed from 6 fps
Provides good video experience at work, where bandwidth is usually good.
- Spinning wheel turns to error message after 5 seconds
- Spinning wheel was indication of something wrong with WebEx, updated with a **message** that clarifies the root cause, either not enough bandwidth or local computer issue.
- **Auto recovery** (re-test) of receiving TP video after low bandwidth warning.





CMR Cloud

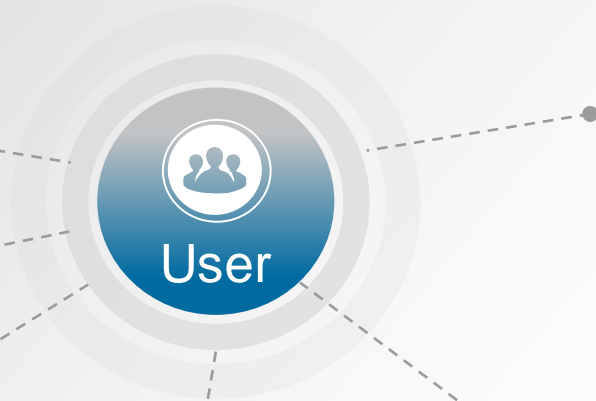
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Your Secure Room in the Cloud



One
Meeting

[YOU@sitename.webex.com](#)



(Future)



Cisco
TelePresence
Endpoints



3rd Party
Standards Based
Video Endpoints



CMR Cloud Introduced by WebEx Rel. WBS 29.8

- Massive User Experience refresh and many new features (selection):
 - Meeting experience
 - Site refresh
 - Mac Productivity Tools
 - Wideband audio and audio prompts
- Introducing **Collaboration Meeting Rooms**

The screenshot displays the Cisco WebEx Meeting Center interface. The main content area shows a presentation slide titled "GLOBAL REVENUES" featuring a donut chart and a world map background. The chart is divided into six segments, each representing a product, with a corresponding legend on the right:

- Product 1 (Dark Blue)
- Product 2 (Light Green)
- Product 3 (Blue)
- Product 4 (Light Green)
- Product 5 (Light Blue)
- Product 6 (Orange)

The interface includes a top menu bar with options like File, Edit, Share, View, Audio, Participant, Meeting, and Help. A toolbar below the menu bar offers options such as Quickstart, Meeting Info, Presentation.ppt, and New Whiteboard. On the right side, there are icons for Participants, Chat, Recorder, and Notes. A participants list on the right shows a video feed of Jill Baker (Host, me) and smaller thumbnails for Louis Cho and Peter Hogan. A chat window at the bottom displays a message from Jill Baker to Everyone: "Hello everyone! Sales forecasting has been an important but challenging task." The chat window also includes a "Send to" dropdown menu set to "Everyone" and a "Send" button. The bottom status bar shows "Connected" and a lock icon.

CMR Cloud

Users

Support 1025 concurrent users in a single meeting

- Up to 25 SIP or H.323 videoconferencing endpoints or clients
- Up to additional 500 WebEx video participants
- Up to additional 500 WebEx audio-only users

Video

- Video 720p 30 fps and content to 720p 5fps with support for standard (4:3) and widescreen (16:9) content
- Single and multiscreen standards-based TelePresence systems

In-Meeting Controls

- See all meeting participants in a unified participant list
- Mute, unmute, and drop any participant
- Lock meeting to prevent unintended participants from joining
- Record sessions with video, audio, and content for future viewing

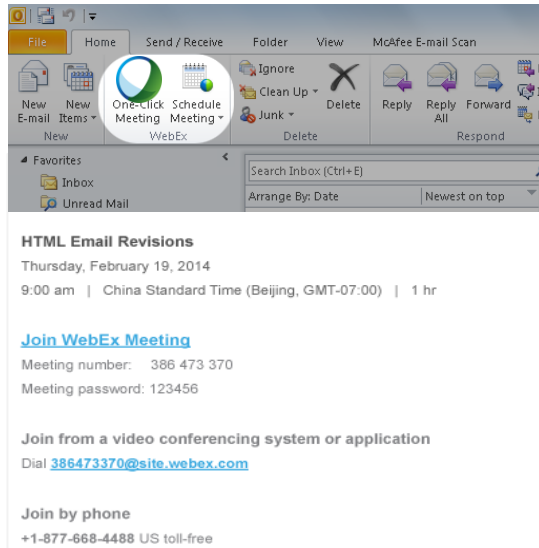
End-to-End Security

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CMR Cloud – Meet Your Way

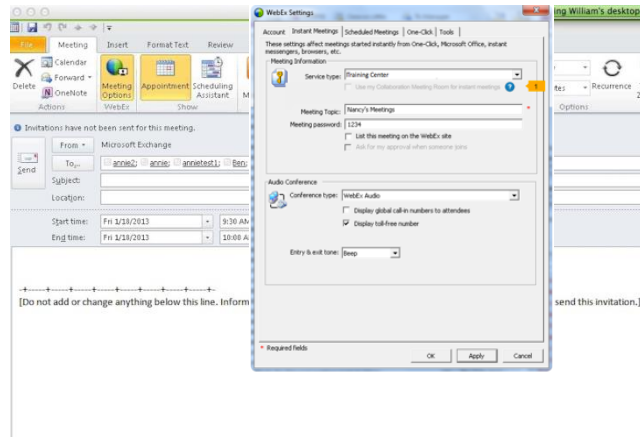
Instant CMR

On-demand, one-click meeting “Meet Now” – Start from Outlook, Jabber or WebEx site, Join on Video or WebEx



Scheduled CMR

For reserving conference rooms using Outlook, using normal work flows, or via WebEx site scheduling



Personal CMR

A personalised, always-available collaboration meeting resource for every user – Just Meet – Anytime



Joining a Personal Room

- Use the Personal Room for instant meetings anywhere, anytime, no scheduling required.

- Each Host has:


1. Web URL for WebEx:

<https://<sitename>.webex.com/meet/<username>>

Landing page with different join methods,
Bookmark for easy access.

1. Video address (SIP and H.323):

<username>@<sitename>.webex.com





Miro Polakovic's Personal Room

<https://cmralpha.webex.com/meet/miro> | 344 243 770


Your Name:

Email Address:

Remember me

 Join from a video conferencing system or application 

Dial miro@cmralpha.webex.com | [Join from application](#)

 Join by phone

+1-415-655-0000 US Toll
1-877-668-4488 US Toll Free

Access code: 344 243 770

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

By entering this room, you are accepting the [Terms of Service](#) and [Privacy Statement](#).

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Joining From TelePresence

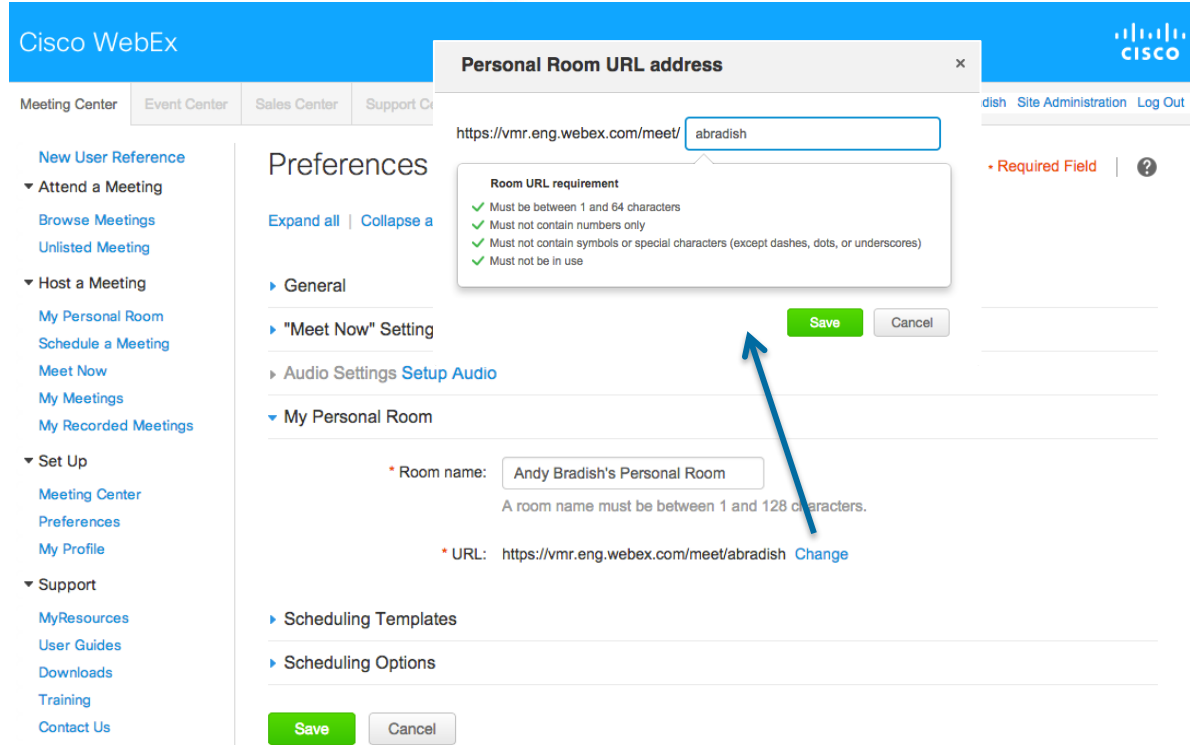
- Dial meeting room video address:
`<username>@<sitename>.webex.com`
- Audio IVR requests the host pin or press # to wait for the host
- Once the host joins, attendees can begin to hear, see, share



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Manage your Personal Room

- Change your Personal Room name (same criteria as meeting title);
- Change your Personal Room link (site admin can turn the feature off);
- If you have CMR Cloud, you can edit your host PIN.



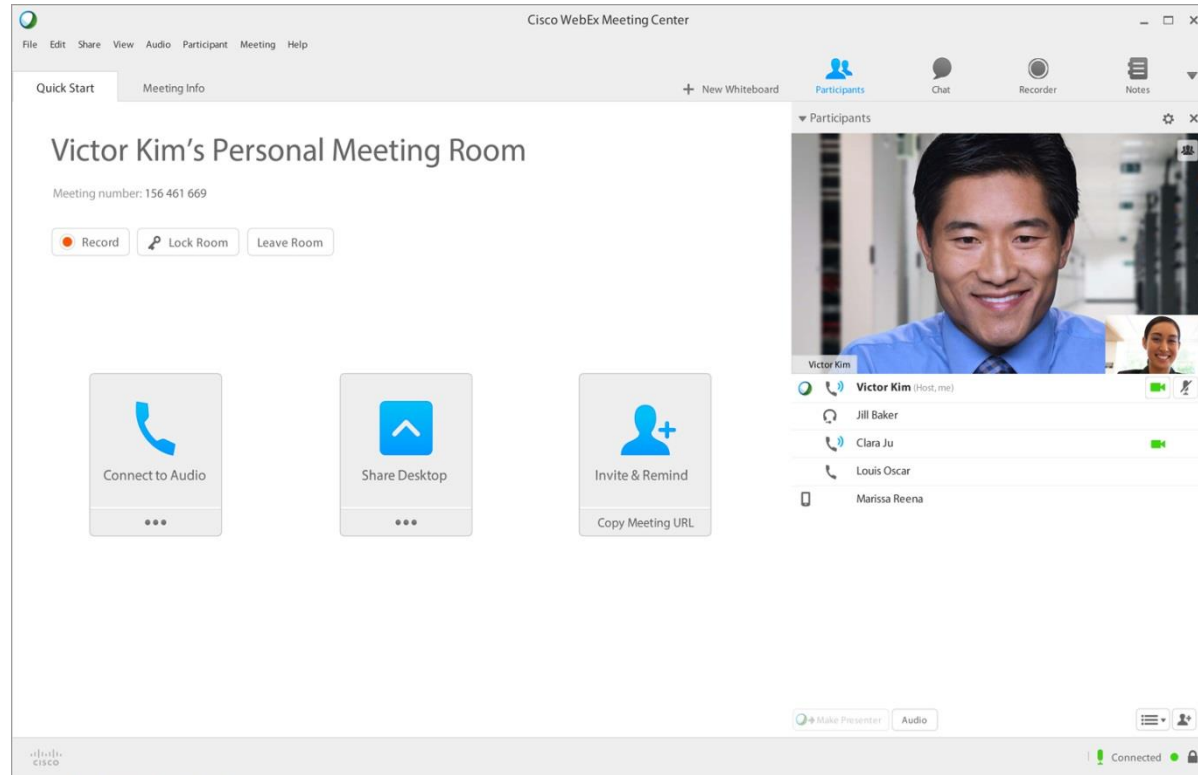
The screenshot shows the Cisco WebEx interface for managing a Personal Room. The main heading is "Personal Room URL address". Below it, the current URL is displayed as "https://vmr.eng.webex.com/meet/abradish". A "Room URL requirement" pop-up window is visible, listing the following rules:

- ✓ Must be between 1 and 64 characters
- ✓ Must not contain numbers only
- ✓ Must not contain symbols or special characters (except dashes, dots, or underscores)
- ✓ Must not be in use

The "Room name" field is set to "Andy Bradish's Personal Room" with a note: "A room name must be between 1 and 128 characters." The "URL" field is set to "https://vmr.eng.webex.com/meet/abradish" with a "Change" link. A blue arrow points to the "Save" button. The interface includes a left-hand navigation menu with options like "Attend a Meeting", "Host a Meeting", and "Set Up".

Meeting Experience in the Personal Room

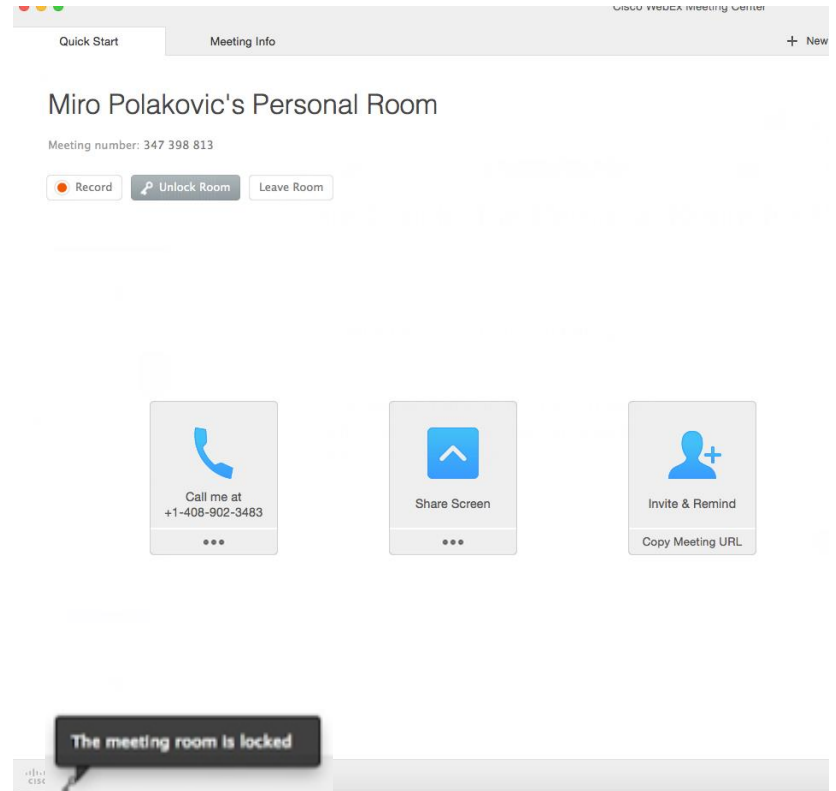
- Improved audio dialing
- Clear HD video
- See list of all meeting participants
- Mute, unmute
- Expel participant
- Record session with audio, video, and content for future viewing
- Lock meeting to prevent unintended participants from joining



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Host Locks the Personal Room for Privacy

- Host locks room during meeting
- Subsequent attempts to join greeted with “host has restricted access to the room” message



Attendee Auto-Knock

- Use Case:
 - Host is present
 - Room is locked
 - Attendee joins



Miro Polakovic's Personal Room

<https://go.webex.com/meet/Miro> | 347 398 813


● Host has locked the room.

Your Name:

Email Address:

Remember me



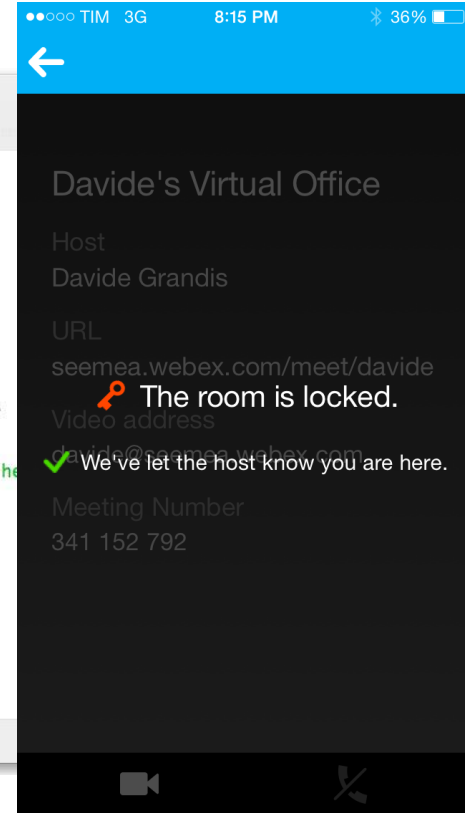
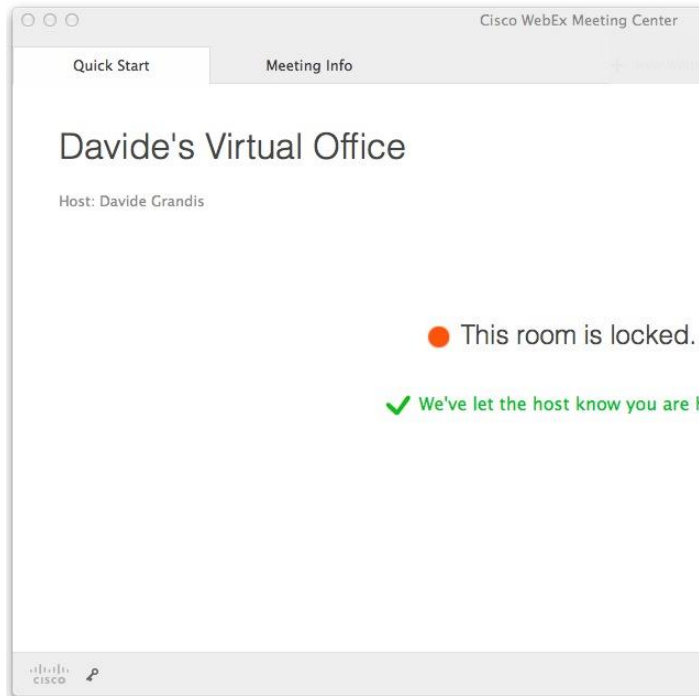
Join from a video conferencing system or application 

Dial [Miro@go.webex.com](tel:Miro@go.webex.com) | [Join from application](#)

Attendee Auto-Knock

- Use Case:
 - Host is present
 - Room is locked
 - Attendee joins

Attendees get into the lobby



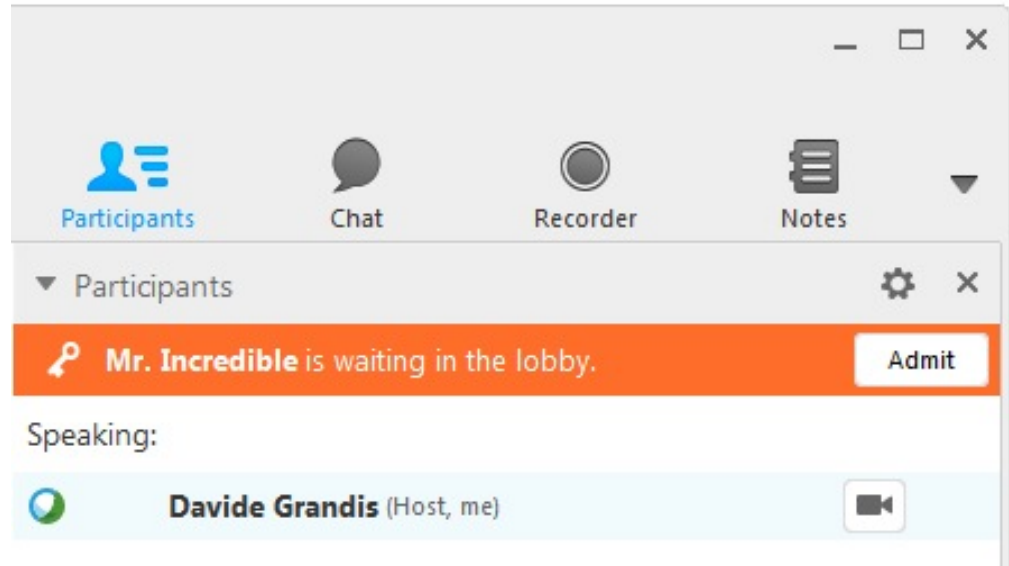
Attendee Auto-Knock

- Use Case:
 - Host is present
 - Room is locked
 - Attendee joins

Attendees get into the lobby

Host gets notified

Notification while not sharing:
quickly admit one attendee



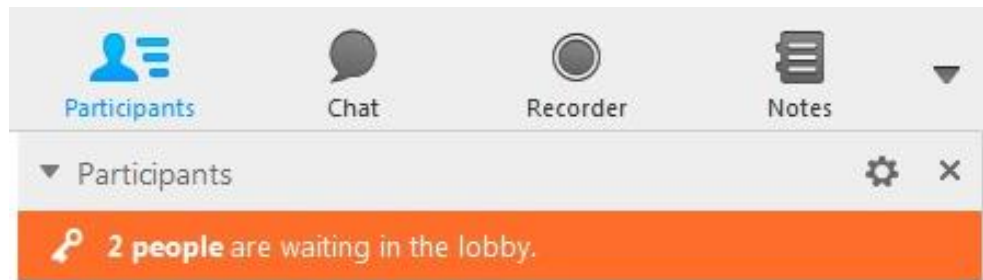
Attendee Auto-Knock

Notification while not sharing: manage all attendees in the lobby

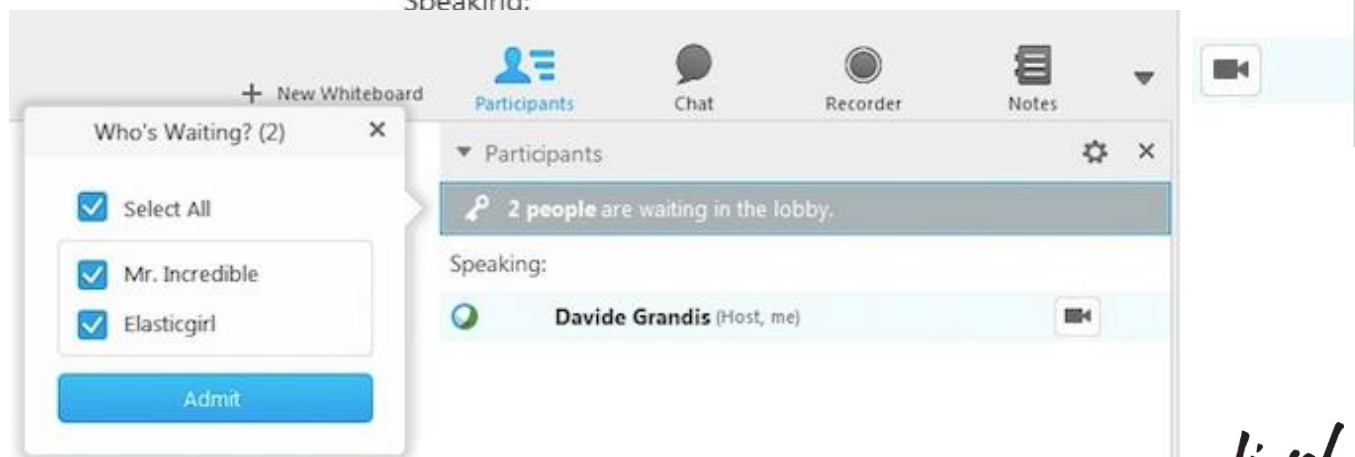
- Use Case:
 - Host is present
 - Room is locked
 - Attendee joins

Attendees get into the lobby

Host gets notified



Speaking:



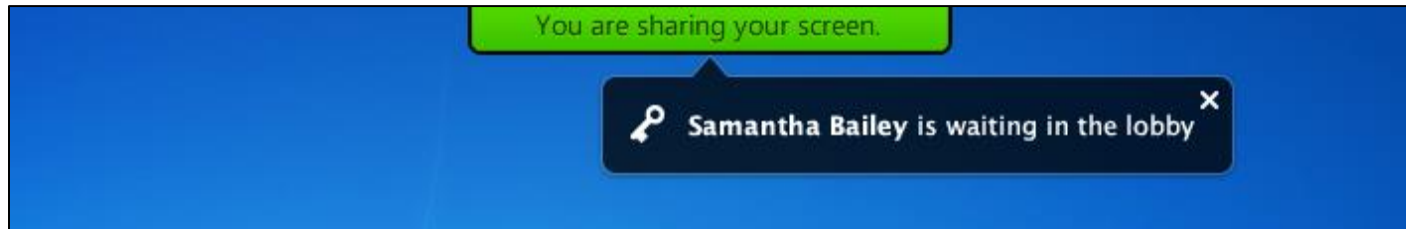
Attendee Auto-Knock

- Use Case:
 - Host is present
 - Room is locked
 - Attendee joins

Attendees get into the lobby

Host gets notified

Notification while sharing



Attendee Auto-Knock

- Supported for WebEx users only.
- TP endpoints in a future release.



When the host is not present the attendee will see the existing “Please wait for the host to join” message.



Miro Polakovic's Personal Room

<https://go.webex.com/meet/Miro> | 347 398 813

● Host has locked the room.

Your Name:

Mr. Despicable

Email Address:

despicable@me.com

Remember me

Enter Lobby



Join from a video conferencing system or application ?

Dial [Miro@go.webex.com](tel:347398813) | [Join from application](#)

CMR Cloud Localisation

All Standard WebEx Languages

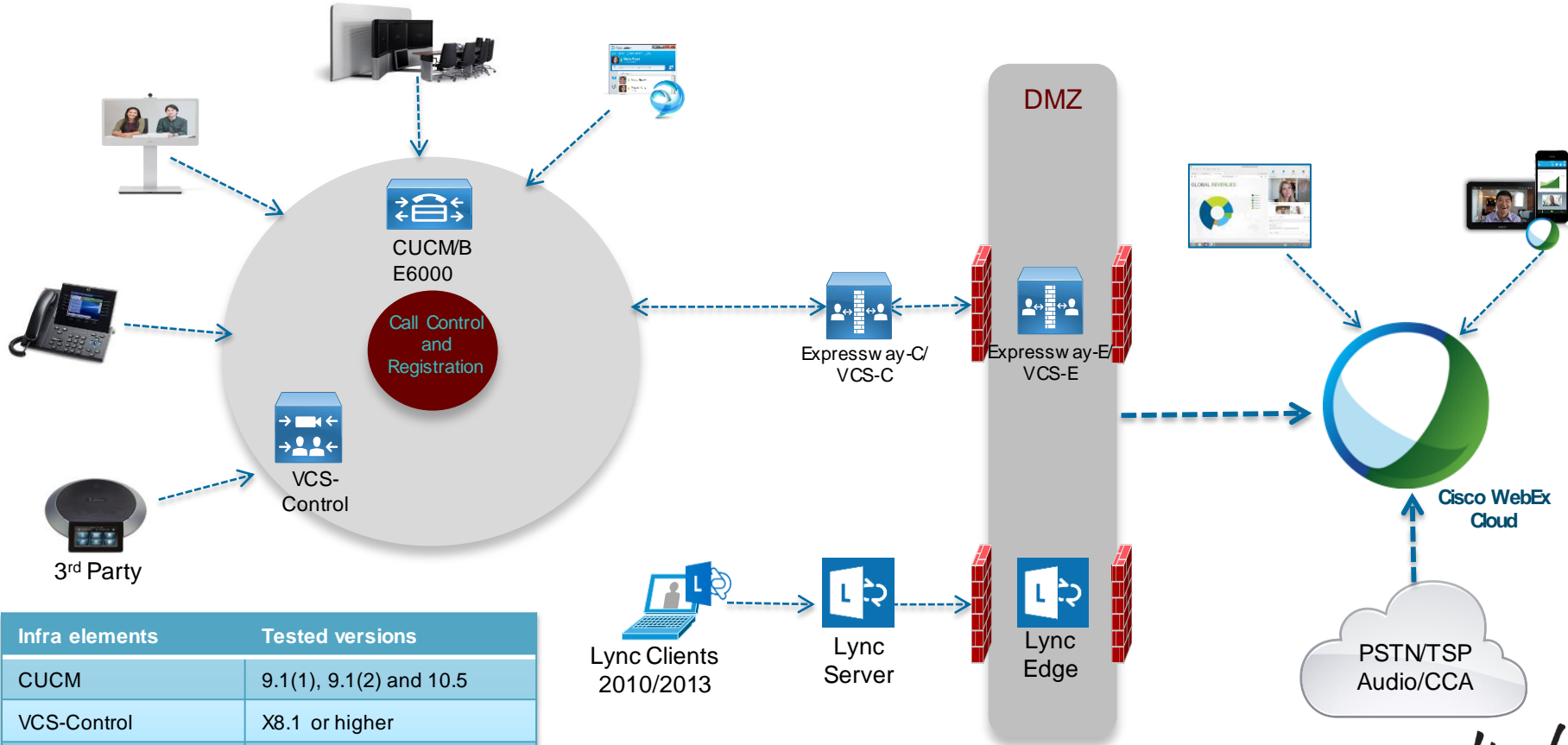
- Lobby experience of video endpoints
- Lobby screen text
“John Doe’s Personal Room. Please wait until host joins.”
- Meeting text
“Meeting end notification”
- Audio IVR prompts heard in events
“Welcome to WebEx. Please enter your PIN or press #.”
- Based on host’s language preference
English speaking attendee joins a French speaking host’s meeting will hear and see French prompts.

Language	Meeting Centre	CMR A/V prompts
Chinese (simplified)	✓	✓
Chinese (traditional)	✓	✓
Dutch	✓	✓
English	✓	✓
French	✓	✓
German	✓	✓
Italian	✓	✓
Japanese	✓	✓
Korean	✓	✓
Portuguese (Brazil)	✓	✓
Russian	✓	✓
Spanish (European)	✓	✓
Spanish (LATAM)	✓	✓
Swedish	✓	✓

A nighttime photograph of a city street. In the foreground, there are long, curved light trails from cars, primarily in shades of yellow and orange. In the middle ground, a pedestrian bridge with blue lighting spans across the street. In the background, there are several tall buildings with lit windows and some flags on poles. The overall scene is illuminated by city lights.

High Level Architecture and Supported Scenarios

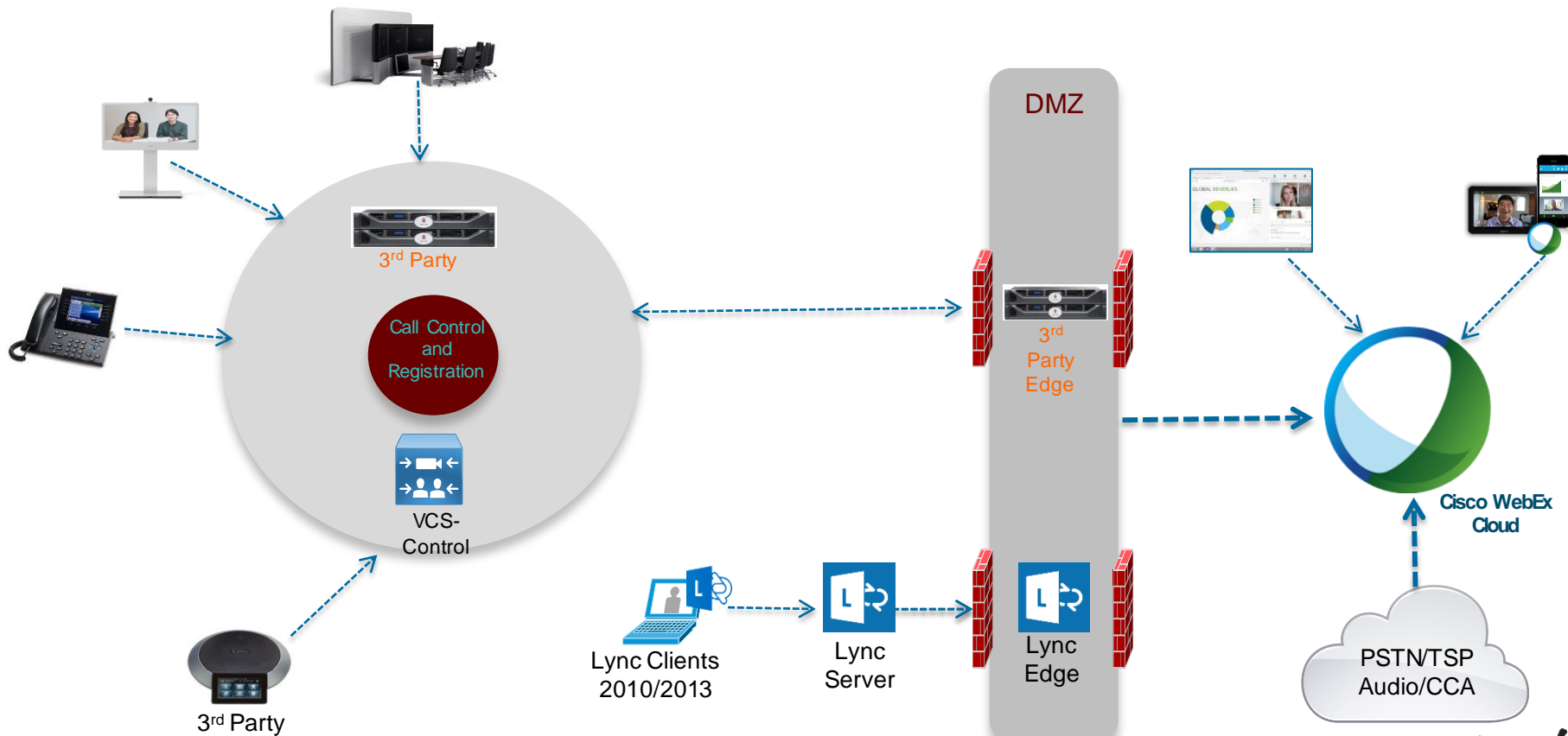
Preferred On-Prem Architecture for CMR Cloud



Infra elements	Tested versions
CUCM	9.1(1), 9.1(2) and 10.5
VCS-Control	X8.1 or higher
Expressway C and E	X8.1 or higher

- Lync support in a future release after launch

Supported On-Prem Architecture for CMR Cloud



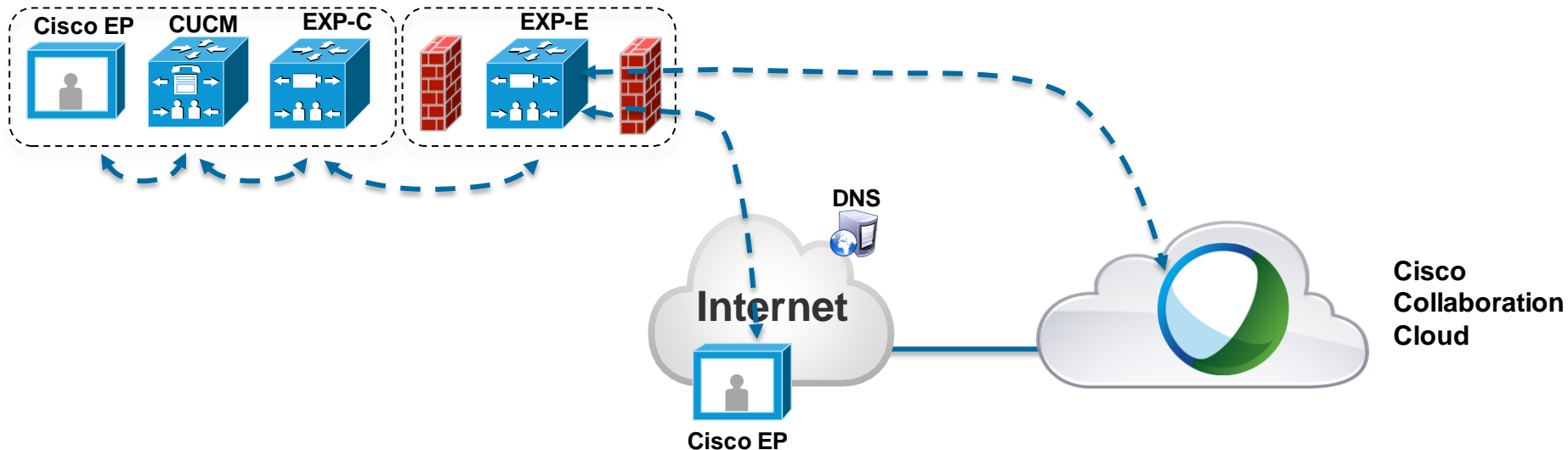
- Lync support in a future release after launch

Supported Scenarios: SIP

Call-Control required

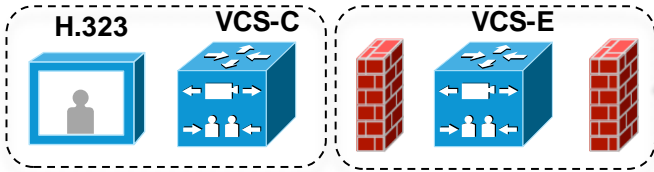
- Typical customer has traditional Cisco infrastructure - 3rd Party SIP infrastructure are supported too.
- Endpoints dial via SIP URI Dialing using DNS.

Customer A

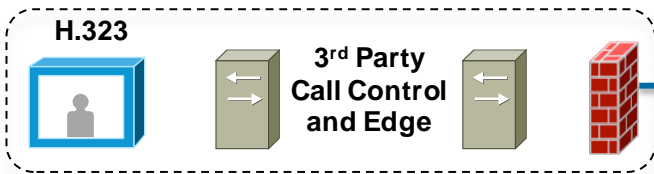


Supported Scenarios: H.323

Customer A



Customer B



Customer C



- Typical customer has traditional TANDBERG/Cisco H.323 endpoints registered to VCS Control and can dial using DNS SRV resolution and has VCS Expressway for NAT/FW traversal
- Customers with 3rd party endpoints and no infrastructure except for a DNS and a firewall are supported too.

- H.323 endpoints must use URI dialling (Annex O) to call into CMR Cloud
- In order for the endpoint to use the IVR to start a meeting or join before the host must support either H.245 User Input or RFC 2833 methods of DTMF signalling.

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H.323 Features Supported

- Audio: G.711, G.722, G.722.1
- Video: H.263 or H.264 AVC from CIF up to 720p/30
- Encryption: CMR cloud interworks H.235 to SRTP
- Content: CMR cloud interworks H.239 to BFCP
- In-Meeting Features:
 - H.323 participants can mute/unmute themselves using DTMF using *6

No plans to support Four-screen “immersive” models from Polycom, Teliris, etc.



Security

- For SIP based calls, the Cisco WebEx Cloud CMR service supports four levels of security (from the most secure):
 - encrypted TLS signalling with CA-signed* certificates and sRTP media encryption;
 - encrypted TLS signalling with self-signed certificates and sRTP media encryption;
 - non-secure TCP signalling with sRTP media encryption;
 - non-secure TCP signalling with non-secure RTP media.
- For H.323 based calls, Cloud CMR service supports H.235 encryption method.
- Multiple security profiles supported independently.
- **Recommended design:** multiple traversal zone on the Expressway with TLS Verify Mode ON with higher priority.

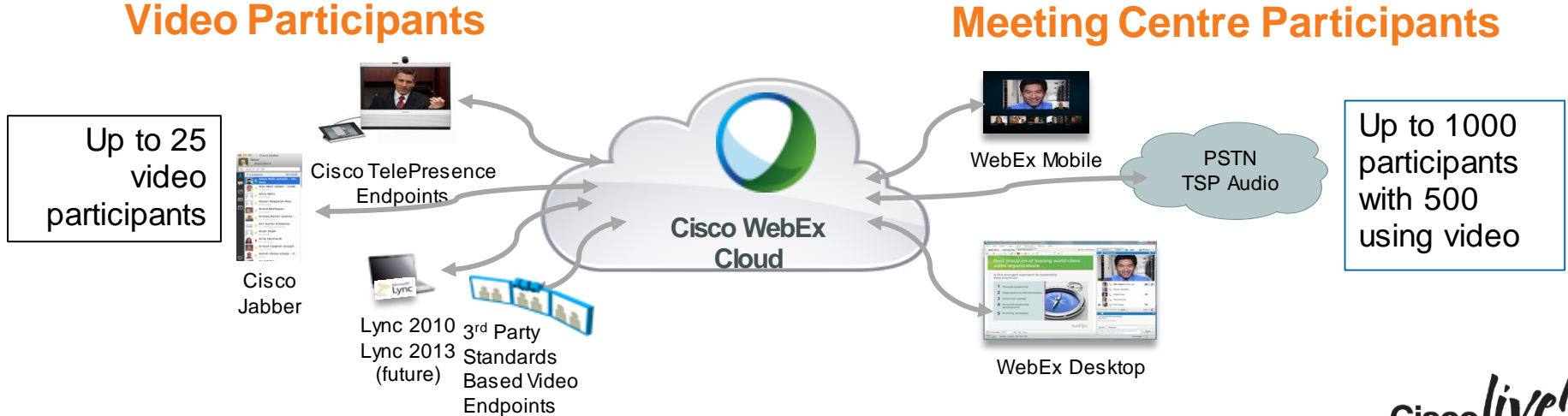
* See list of supported Root CA's in the configuration guide.



CMR Cloud – Licensing









Collaboration Meeting Room Cloud Licensing

- CMR Cloud is an add-on feature to WebEx Meeting Centre;
- Allows an additional 25 video participants to join a Meeting Centre meeting:
 - Each video screen constitutes a video participant
 - Actual Meeting Centre participants depends on Meeting Centre licensing (25-200-1000).



CMR Cloud Licensing Model

CMR Cloud is an add-on license to WebEx Meeting Centre

CMR Cloud Licensing Model	Meeting Centre Licensing					Notes
	Named User	Active User	Employee Count (ELA)	Ports	Minutes	
Named User						Best for limited deployment Minimum 5 licenses
Active User						Lower cost for company-wide deployments
Employee Count (ELA)						

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Expressway Traversal Session Lic. for CMR Cloud

What

Offer firewall traversal session licenses at **no additional cost** to customers purchasing Cisco Collaboration Meeting Rooms (CMR) Cloud.

How

Long term: Enable firewall traversal to the Cisco WebEx Cloud without requiring additional licenses.

Short term: Get temporary traversal session licenses for every CMR Cloud order.

Expressway Traversal Session Lic. for CMR Cloud

Available January 28, 2015

Who	For Cisco-based video deployments CUCM (and BE) with Expressway C&E or VCS+Expressway
What	<ul style="list-style-type: none">• Long term: Connect to CMR Cloud via Expressway without needing licenses (currently planned for mid-2015)• Short term: Get 125 time-bound traversal session licenses for every block of 250 CMR Cloud users
How	<ul style="list-style-type: none">• GPL Named Host via CCW• GPL Active User, Employee Count via A2Q• GRA Named Host, Active User, Employee Count via A2Q• Current customers who already ordered CMR Cloud via A2Q
Why	<ul style="list-style-type: none">• Simplify the CMR Cloud sales process• Improve customer purchase experience• Lower total cost of Cisco end-to-end solution

Example

Buy CMR Cloud Licenses	Get Traversal Sessions
1-250	125
251-500	250
501-750	375
....
8001-8250	4125

Each Traversal Session =
2 RMS Licenses

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CMR Cloud Assessment to Quality (A2Q)

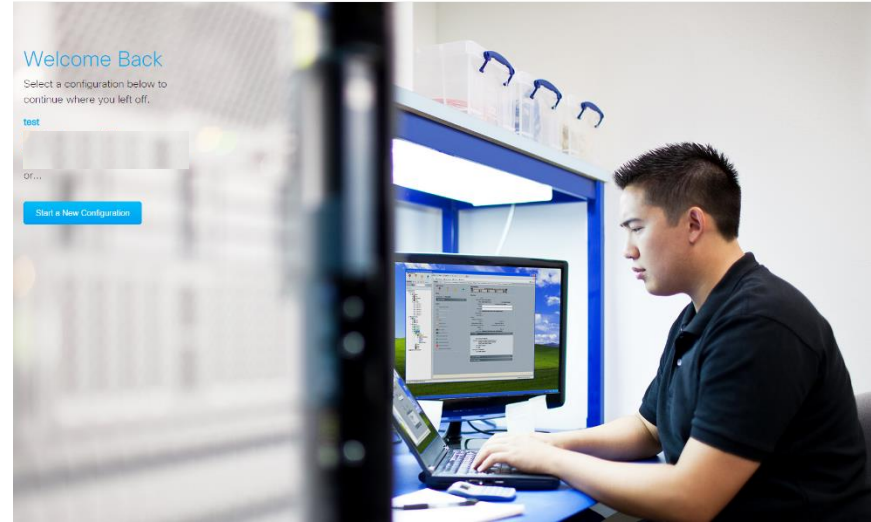
- A2Q is high level deployment assessment tool used to identify solution issues and sets service expectations **before a deal gets booked**
 - A2Q is a questionnaire submitted and processed through web portal
 - Exceptions interactively processed
- A2Q is automated on-line at: <http://tools.cisco.com/atog>
- Why A2Q for CMR Cloud? (at least initially)
 - WebEx specific: Site release and audio (not all supported);
 - Customer specific (Video):
 - Ability to dial out to SIP/H.323 edge via DNS resolution
 - 2-way video through Firewall Traversal (RMS) capable edge
 - UDP media allowed through firewall
- A2Q being used for RMS Licensing fulfillment as common tool already in use, to speed up processing and keep history of customer requests

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CMR Configuration Tool

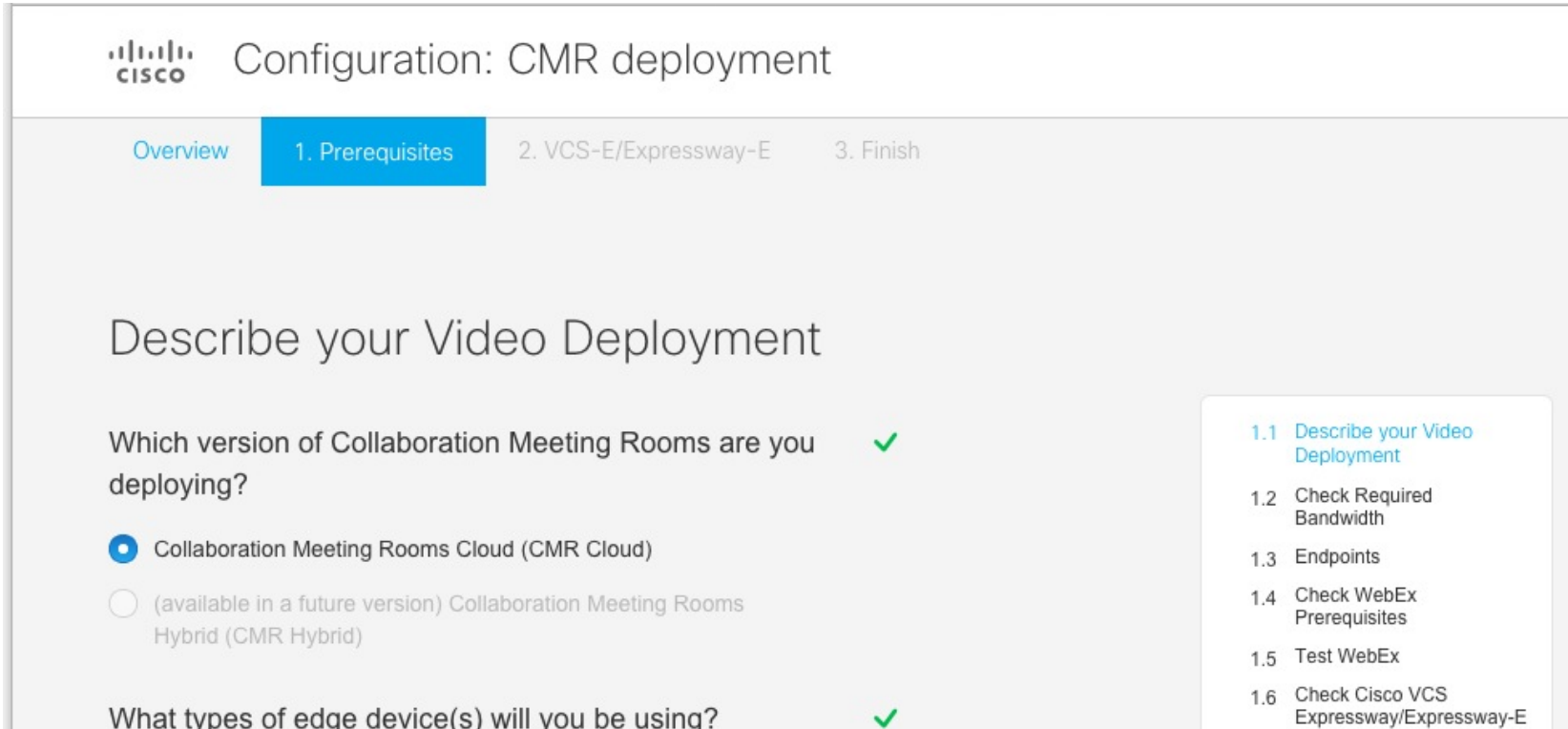
Providing Quicker Cloud Deployment

- Deliver a self-service, easy to use configuration tool, substantially reducing errors
- Automate on-premise configuration, reducing on-boarding costs for customers and partners
- Start using CMR Cloud faster
- Download from Chrome Web Store
- Available for trial at Cisco Live Milan, FCS Feb 21st, 2015



CMR Configuration Tool

Example Screens: Pre-requisite Screen



The screenshot shows the 'Configuration: CMR deployment' interface. At the top left is the Cisco logo. Below it is a navigation bar with three tabs: 'Overview', '1. Prerequisites' (which is highlighted in blue), and '2. VCS-E/Expressway-E'. To the right of these tabs is '3. Finish'. The main heading is 'Describe your Video Deployment'. Below this heading are two questions, each with a green checkmark to its right. The first question is 'Which version of Collaboration Meeting Rooms are you deploying?' with two radio button options: 'Collaboration Meeting Rooms Cloud (CMR Cloud)' (selected) and '(available in a future version) Collaboration Meeting Rooms Hybrid (CMR Hybrid)'. The second question is 'What types of edge device(s) will you be using?'. On the right side of the screen, there is a vertical list of steps: '1.1 Describe your Video Deployment' (highlighted in blue), '1.2 Check Required Bandwidth', '1.3 Endpoints', '1.4 Check WebEx Prerequisites', '1.5 Test WebEx', and '1.6 Check Cisco VCS Expressway/Expressway-E'.

CISCO Configuration: CMR deployment

Overview **1. Prerequisites** 2. VCS-E/Expressway-E 3. Finish

Describe your Video Deployment

Which version of Collaboration Meeting Rooms are you deploying? ✓

Collaboration Meeting Rooms Cloud (CMR Cloud)

(available in a future version) Collaboration Meeting Rooms Hybrid (CMR Hybrid)

What types of edge device(s) will you be using? ✓

- 1.1 Describe your Video Deployment
- 1.2 Check Required Bandwidth
- 1.3 Endpoints
- 1.4 Check WebEx Prerequisites
- 1.5 Test WebEx
- 1.6 Check Cisco VCS Expressway/Expressway-E

CMR Configuration Tool

Example Screens: VCS Configuration

 Configuration: Acme Corp EZ Config - Headquarters

[Overview](#) [1. Prerequisites](#) **[2. VCS-E/Expressway-E](#)** [3. VCS Control/Expressway-C](#) [4. Route Pattern Setup](#) [5. WebEx Post Configuration Test](#) [6. Finish](#)

Set up a DNS Zone

Creating a New WebEx DNS Zone on VCS

By default, a VCS solution will handle local domains and route calls going to non-local domains to the VCS Expressway/Expressway-E to route them to the Internet via a DNS zone. Connection to the WebEx cloud uses a new WebEx-specific DNS zone that must be configured on VCS Expressway/Expressway-E.

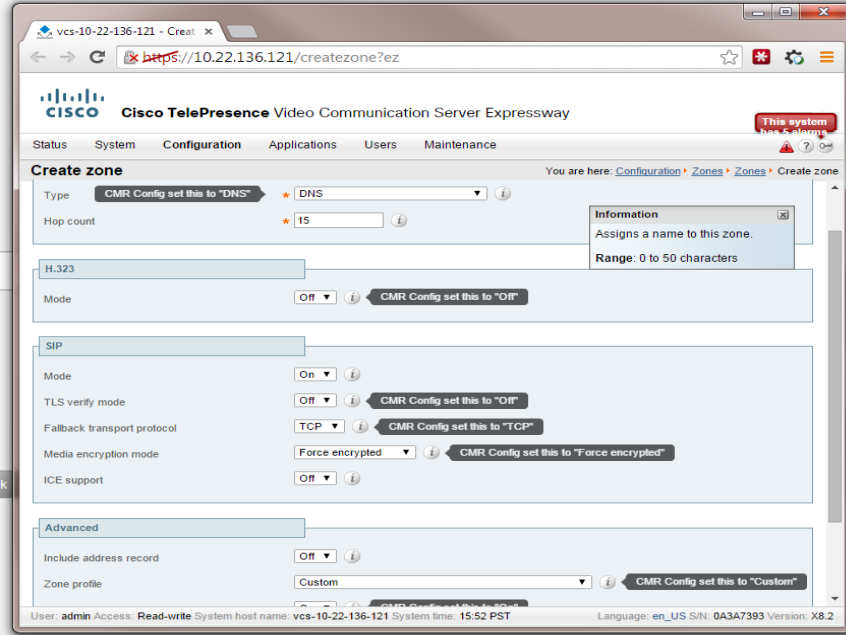
Creating a New DNS Zone

Clicking the button below will open a form to create new DNS Zone. Please double check the form and click "Create zone" when done.

[Help me to add a WebEx DNS Zone](#)

To skip, select a reason...

[Back](#)



The screenshot shows the Cisco TelePresence Video Communication Server Expressway configuration interface. The browser address bar displays `https://10.22.136.121/createzone?ez`. The page title is "Cisco TelePresence Video Communication Server Expressway". The navigation menu includes Status, System, Configuration, Applications, Users, and Maintenance. The current page is "Create zone".

The "Create zone" form contains the following fields and options:

- Type: **CMR Config set this to "DNS"** (dropdown menu)
- Hop count: **15** (text input)
- Information: Assigns a name to this zone. Range: 0 to 50 characters
- Zone name: **H.323** (text input)
- Mode: **Off** (dropdown menu) **CMR Config set this to "Off"**
- SIP Mode: **On** (dropdown menu)
- TLS verify mode: **Off** (dropdown menu) **CMR Config set this to "Off"**
- Fallback transport protocol: **TCP** (dropdown menu) **CMR Config set this to "TCP"**
- Media encryption mode: **Force encrypted** (dropdown menu) **CMR Config set this to "Force encrypted"**
- ICE support: **Off** (dropdown menu)
- Advanced section:
 - Include address record: **Off** (dropdown menu)
 - Zone profile: **Custom** (dropdown menu) **CMR Config set this to "Custom"**

At the bottom of the form, there is a "Create zone" button and a "Cancel" button. The footer of the page shows: User: admin Access: Read-write System host name: vcs-10-22-136-121 System time: 15:52 PST Language: en_US S/N: 0A3A7393 Version: X8.2

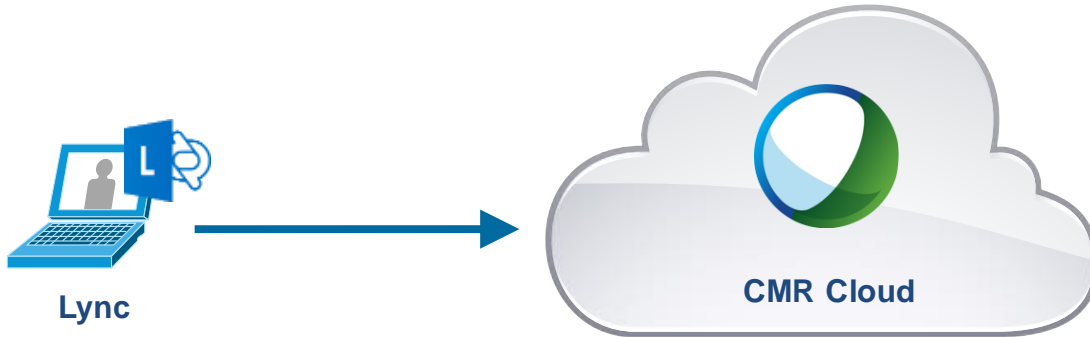
o!ive!

A long-exposure photograph of a city street at night. The foreground is dominated by vibrant, multi-colored light trails from moving vehicles, creating a sense of motion and energy. In the background, a modern pedestrian bridge spans across the street, illuminated with blue lights. Tall buildings with lit windows and colorful architectural lighting (including red and blue) form the city skyline under a dark night sky.

CMR Cloud - Lync Interoperability

Introduction of Lync Support

- Starting from Q1 CY15 CMR Cloud will allow Lync clients to join
- **Capabilities: audio/video/receiving content**



What Features Are Supported For Lync Clients?

- **Video:** H.263 (CIF) or H.264 UC (720p/30)
 - CMR Cloud converts from MSFT proprietary H.264 SVC to H.264 AVC
- **Audio:** G.722
- **Content:** View Only
 - CMR Cloud encodes content in main video -> composite layout
- **In-Meeting features:** Participant list not available
 - Lync users can mute/unmute themselves using DTMF

What Versions Of Lync Are Supported?

Servers:

- Lync 2010, Lync 2013 and Office 365 (Lync 2013)
- Lync 2007 and 2007 R2 not supported.

Clients:

- Lync Windows 2010 (H.263 CIF)
- Lync Windows 2013 (H.264 up to 720p/30)
- Lync Mobile iOS and Android
- Lync Mac 2011 only supports RTV (no H.263 or H.264 support), will connect as audio only

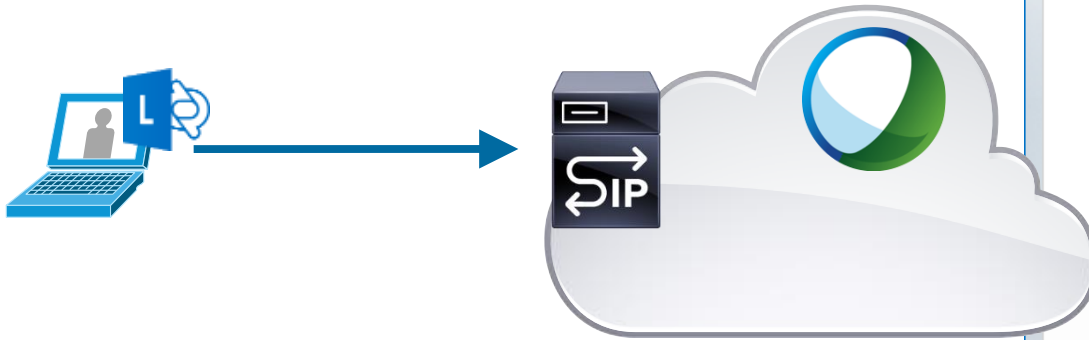


Introduction of Lync Support: Beta Release

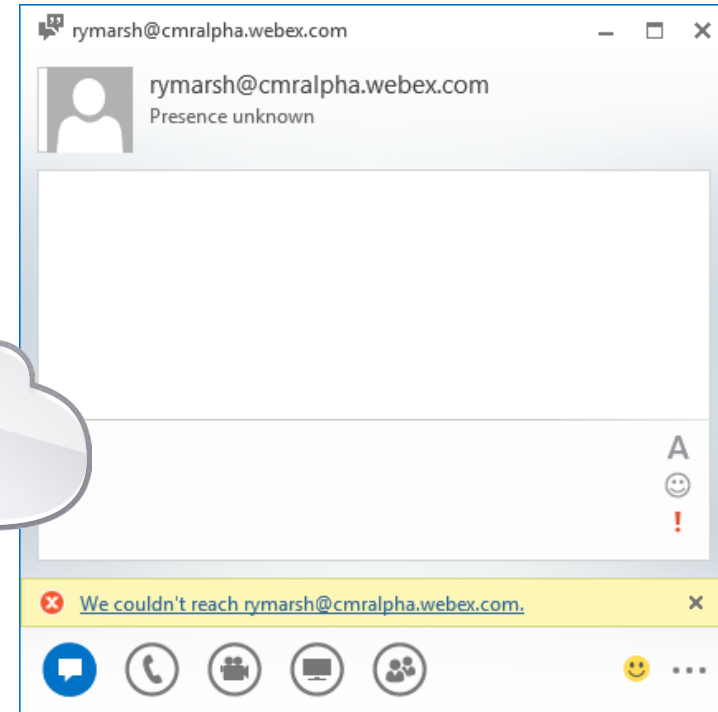
- Lync client support is considered Beta due to some known caveats;
- Cisco support is same as 3rd party endpoints:
 - Verify provisioning and configuration of WebEx site is correct
 - Verify conferences is created and functioning
 - Best effort on client configuration and usage

Caveat: Lync Connects via a Special SIP URI

- A dedicated URI for Lync clients is required.



{meeting# | username}.sitename
@lync.webex.com

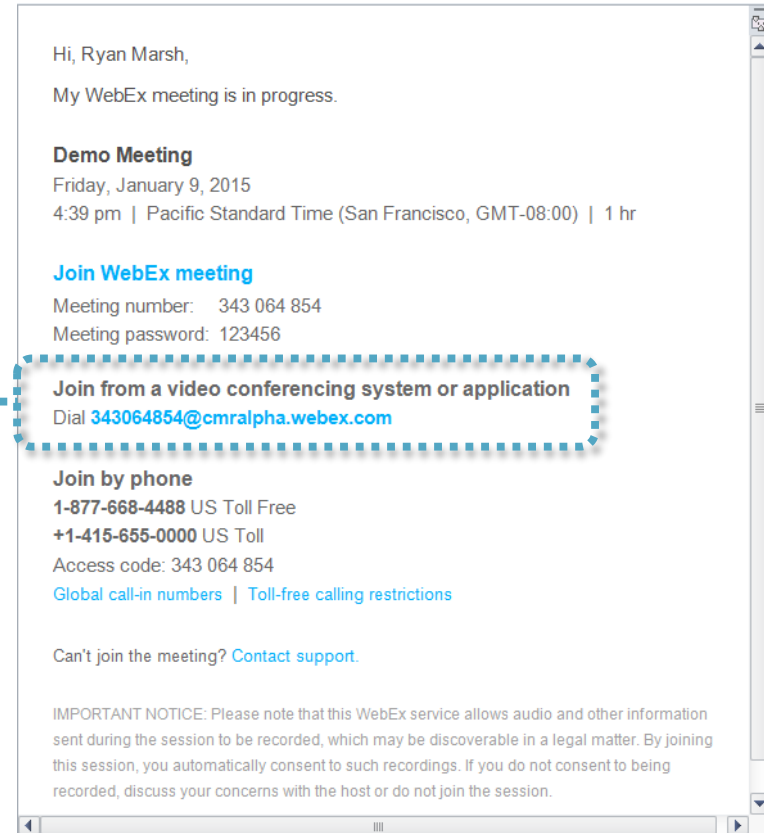


Caveat: Lync Dial Instructions Not Included In Invites

- Lync specific connection instructions are not included in the invite

Doesn't work for Lync

- **Workaround**: Administrators can use the Pilot Number field or customise the email templates to include Lync instructions.



Hi, Ryan Marsh,

My WebEx meeting is in progress.

Demo Meeting
Friday, January 9, 2015
4:39 pm | Pacific Standard Time (San Francisco, GMT-08:00) | 1 hr

[Join WebEx meeting](#)
Meeting number: 343 064 854
Meeting password: 123456

Join from a video conferencing system or application
Dial [343064854@cmralpha.webex.com](tel:343064854@cmralpha.webex.com)

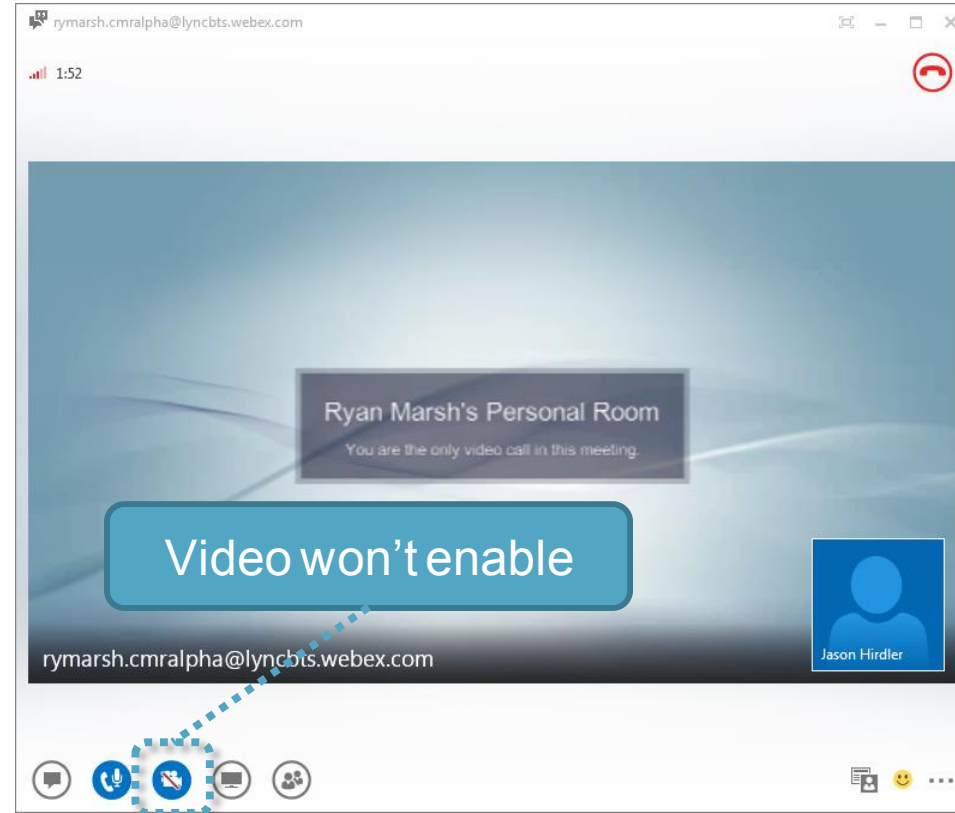
Join by phone
1-877-668-4488 US Toll Free
+1-415-655-0000 US Toll
Access code: 343 064 854
[Global call-in numbers](#) | [Toll-free calling restrictions](#)

Can't join the meeting? [Contact support](#).

IMPORTANT NOTICE: Please note that this WebEx service allows audio and other information sent during the session to be recorded, which may be discoverable in a legal matter. By joining this session, you automatically consent to such recordings. If you do not consent to being recorded, discuss your concerns with the host or do not join the session.

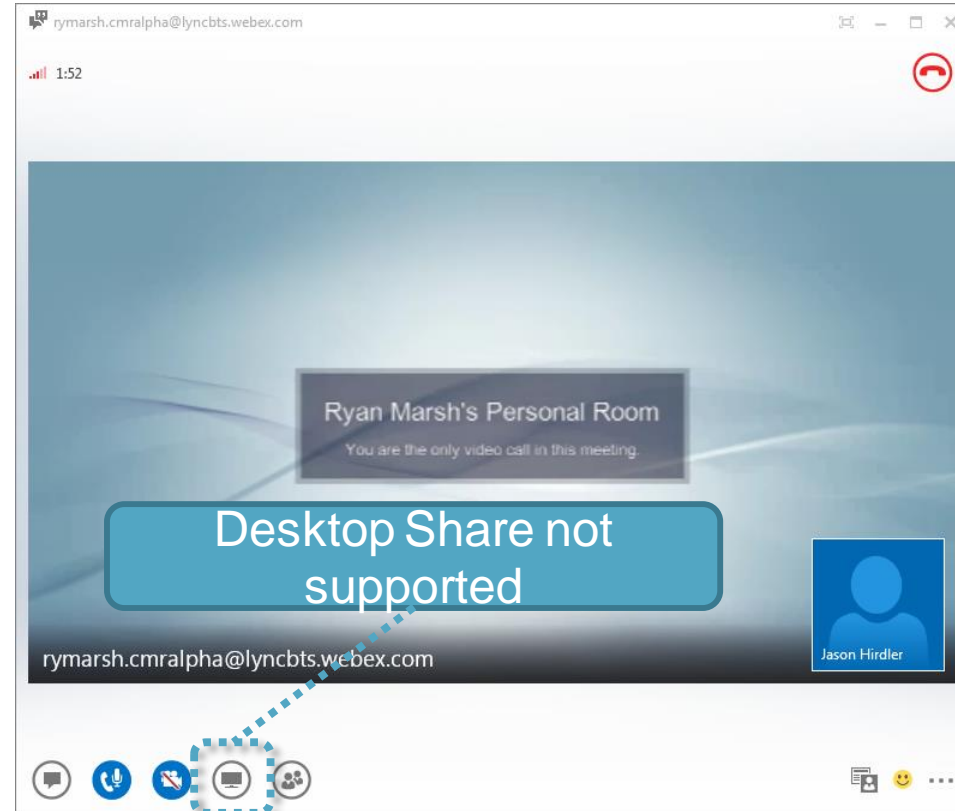
Caveat: Lync Can't Escalate From Audio To Video

- If Lync initiates the call as audio-only, it cannot escalate to video. Instances where audio-only is used:
 - Lync user clicks on audio button
 - Lync user is first participant to join
- **Workaround**: Join when the meeting is started. Lync Host may start CMR from WebEx.



Caveat: Lync Users Can't Share Desktop

- Lync cannot share desktop in a CMR Cloud session. Due to the use of the RDP proprietary protocol.
- **Workaround**: None. Plan to be addressed in a future CMR release (currently planned for Q2 CY15).



BRKCOL-2020 – Cisco UC and MSFT
Integration

A nighttime photograph of a city street. In the foreground, there are long, curved light trails from cars, primarily in shades of yellow and orange. In the middle ground, a pedestrian bridge with blue lighting spans across the street. In the background, there are several tall buildings with lit windows and some flags on poles. The overall scene is illuminated by city lights.

Collaboration Meeting Room Comparison

	CMR Hybrid	CMR Cloud
Best fit for	<p>Extend the Cisco TelePresence (leverage the investment)</p> <p>On-premises MCU/TS (CAPEX) Leverage full HD (1080p) TP video and screen sharing</p>	<p>Break the conferencing silos (3rd party video, Lync)</p> <p>Elastic Cloud MCU (OPEX)</p>
Differences		
Meeting Paradigms	Scheduled Meeting	<p>Scheduled Meeting</p> <p>Instant “Meet Now” Meeting</p> <p>Personal Meeting Room</p>
Scheduling	OBTP for scheduled endpoints	<p>Webex site Scheduling</p> <p>Endpoints cannot be scheduled</p>
In-Meeting Experience	<p>No unified roster list (today)</p> <p>Separate controls on WebEx client & TelePresence endpoints</p>	<p>Unified roster on WebEx client</p> <p>Unified controls on WebEx client</p>
Bandwidth (TelePresence)	One TP stream per meeting	One TP stream per endpoint

scolive!

CMR Hybrid and Cloud Co-existence

CMR Hybrid and Cloud can be enabled on the same Webex site and on the same host account.

Different scenarios are possible. Some examples:

1. Hybrid/Cloud by user group:

- Set of users A with CMR Hybrid:
 - Full HD/immersive rooms – scheduled with optional concierge – internal (TP)-only meeting (optional)
- Set of users B with CMR Cloud:
 - Maximum ease of use for personal use with the Personal Room

2. Hybrid/Cloud by use-case (not recommended):

- All users get CMR Hybrid and CMR Cloud enabled in their WebEx accounts
 - Different outcome depending on the scheduling tool (Productivity Tools goes “Cloud”) and not really future proof.

Collaboration Meeting Room

Summary

- CMR provides one convergent conferencing solution by integrating Video and WebEx;
- Flexible: can be deployed in the Hybrid or Cloud fashion (or both):
 - Hybrid: extends the Cisco TelePresence reach;
 - Cloud: breaks the conferencing silos.
- The right User Experience is the key to a successful deployment.

Call to Action

- **Come and see me at the World of Solution for a CMR demo**
- Meet the Engineer
- Lunch time Table Topics
- DevNet zone related labs and sessions
- Recommended Reading: for reading material and further resources for this session, please visit www.cisco.com/go/cmr



Q & A

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A long-exposure photograph of a city street at night. The foreground is dominated by vibrant, multi-colored light trails from moving vehicles, creating a sense of motion and energy. In the background, a modern urban landscape is visible, featuring a pedestrian bridge with blue lighting, tall buildings with illuminated windows, and streetlights. The overall scene is a blend of urban architecture and dynamic light patterns.

CMR Hybrid Case Study

CMR Hybrid Customer Profile:



TP Partner:



Headquarters: Treviso, Italy

Products sold in 118 countries, globally

480 offices, distributors worldwide

1400+ Employees

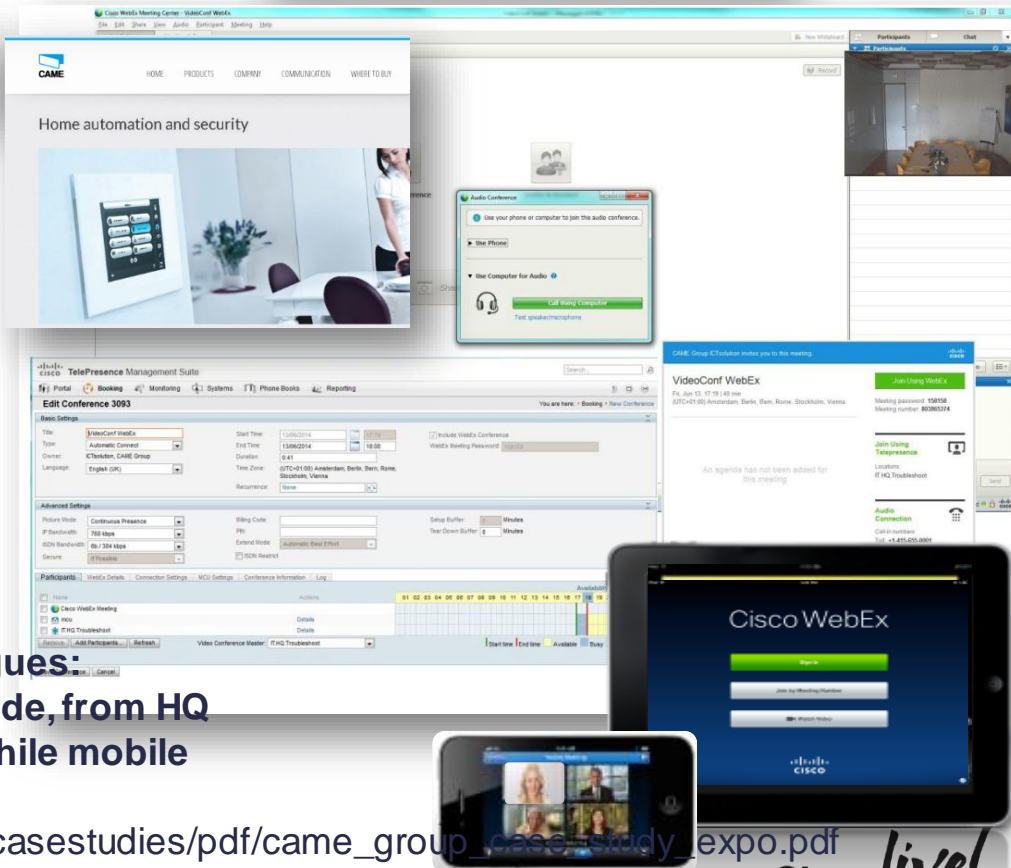
MotoGP Home, Building Automation Supplier
(Motorised Awnings, Electronic Gates, etc.)

Selected as Expo Milano 2015 Official
Partner for Access Control Management

Uses CMR Hybrid for:

Extend TP-quality collaboration to reach colleagues:

- On-site connection to installers worldwide, from HQ
- To iOS and Android easy-to-use apps while mobile



Case study: http://www.cisco.com/assets/global/IT/casestudies/pdf/came_group_case_study_expo.pdf

Cisco live!

A long-exposure photograph of a city street at night. The foreground is dominated by vibrant, multi-colored light trails from moving vehicles, creating a sense of motion and energy. In the background, a modern pedestrian bridge spans across the street, illuminated with blue lights. Tall buildings with lit windows and colorful architectural lighting (including red and blue) form the city skyline. The overall scene is a dynamic and modern urban environment.

CMR Hybrid – Instant Meeting

Step 1: Access the TMS

The screenshot shows a web browser window with the URL https://acetms/tmsagent/tmsportal/?locale=en_US#home. The browser's address bar includes navigation icons (back, forward, refresh) and a search icon. Below the address bar is a bookmarks bar with folders for 'Apps', 'TOP links', 'CISCO', 'WebEx & Collab', 'WXeTP', 'IWE', 'LAB', 'Personali', 'Imported', 'CMR Cloud', and 'Video'. The main content area features a blue header with the Cisco logo, the text 'TelePresence User Portal', a user profile for 'Davide Grandis (dgrandis)', and a menu icon. The main content is divided into two white panels. The left panel, titled 'Smart Scheduler', contains a calendar icon, the text 'No upcoming meetings.', and a link 'Open Smart Scheduler'. The right panel, titled 'Collaboration Meeting Room', contains a person-in-a-meeting icon, the text 'Your CMR details:', the email address 'dgrandis.join@cisco.com', the number '89286093', the text 'Host PIN: 023365', and a link 'Open Collaboration Meeting Room'.

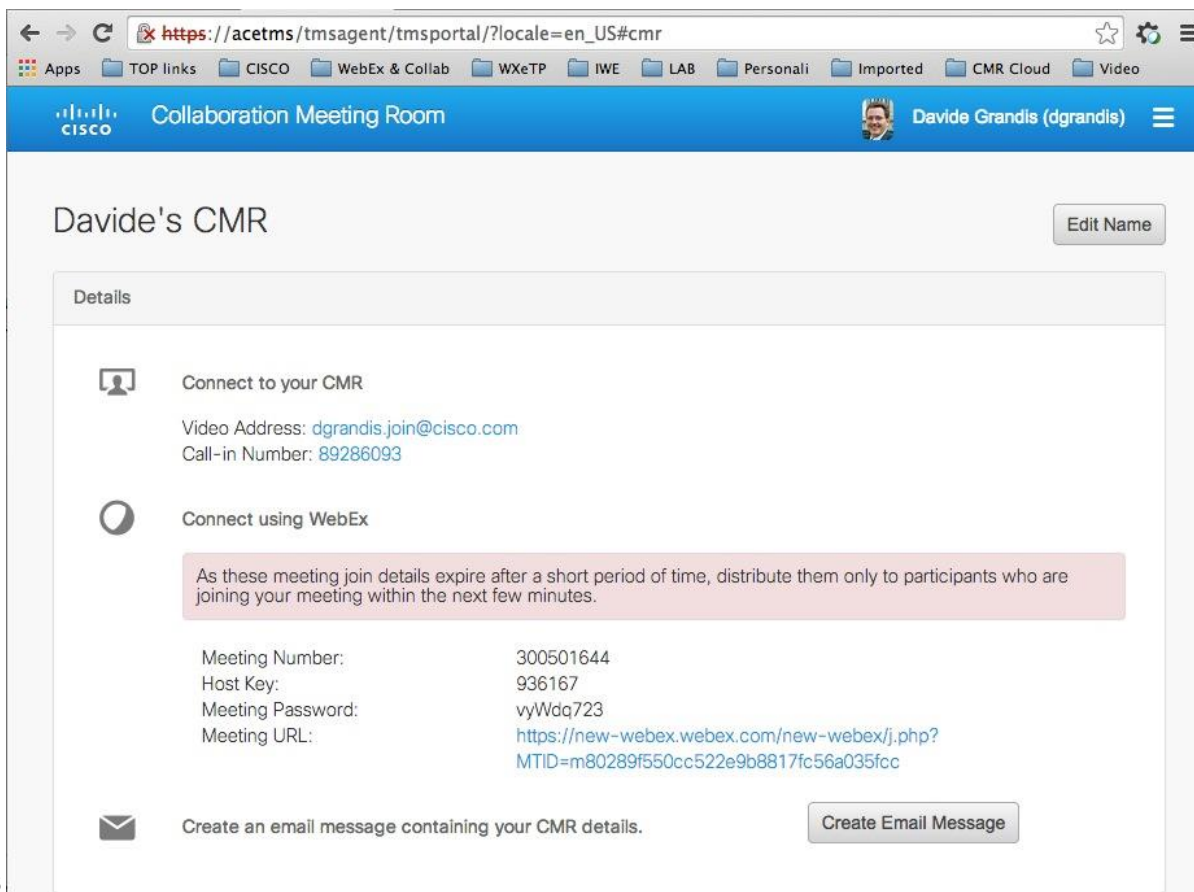
Step 2: Click on Collaboration Meeting Room

The screenshot shows a web browser window with the URL https://acetms/tmsagent/tmsportal/?locale=en_US#cmr. The browser's address bar and tabs are visible. The page title is "Collaboration Meeting Room" and the user is logged in as "Davide Grandis (dgrandis)".

The main content area displays "Davide's CMR" with an "Edit Name" button. Below this is a "Details" section containing three options:

- Connect to your CMR**: Includes the video address dgrandis.join@cisco.com and call-in number [89286093](tel:89286093).
- Create a temporary WebEx connection to your CMR and distribute the details to participants just before your meeting starts.**: Accompanied by a "Create WebEx Connection" button.
- Create an email message containing your CMR details.**: Accompanied by a "Create Email Message" button.

Step 3: Click on “Create WebEx Connection”




The screenshot shows a web browser window with the URL https://acetms/tmsagent/tmsportal/?locale=en_US#cmr. The browser's address bar and tabs are visible. The page header includes the Cisco logo, the text "Collaboration Meeting Room", and the user's name "Davide Grandis (dgrandis)".

The main content area is titled "Davide's CMR" and includes an "Edit Name" button. Below this is a "Details" section with two options:

- Connect to your CMR**: Includes a video address (dgrandis.join@cisco.com) and a call-in number (89286093).
- Connect using WebEx**: Includes a warning box stating: "As these meeting join details expire after a short period of time, distribute them only to participants who are joining your meeting within the next few minutes." Below this, the following details are listed:
 - Meeting Number: 300501644
 - Host Key: 936167
 - Meeting Password: vyWdq723
 - Meeting URL: <https://new-webex.webex.com/new-webex/j.php?MTID=m80289f550cc522e9b8817fc56a035fcc>

At the bottom of the details section, there is an option to "Create an email message containing your CMR details." with a "Create Email Message" button.

Step 4: Send Email with CMR and WebEx Details



The screenshot shows an email composition window titled "Davide's CMR". The window has a standard macOS-style title bar with red, yellow, and green window control buttons. Below the title bar is a rich text toolbar with icons for undo, redo, bold, italic, underline, bulleted list, numbered list, indent, and outdent. The font is set to Helvetica, size 14. The email fields are as follows:

- To:** [Empty field with a plus icon on the right]
- Cc:** [Empty field]
- Bcc:** [Empty field]
- Subject:** Davide's CMR
- From:** "Davide Grandis (dgrandis)" <dgrandis@cisco.com>
- Signature:** None

The email body contains the following text:

Join me in my Collaboration Meeting Room using a video conferencing system or application:
Video Address: dgrandis.join@cisco.com
Call-in Number: 89286093
Security PIN not required for guests

You can also join the upcoming meeting using this WebEx connection:
Meeting Number: 300501644
Meeting Password: vyWdq723
Meeting URL: <https://new-webex.webex.com/new-webex/j.php?MTID=m80289f550cc522e9b8817fc56a035fcc>

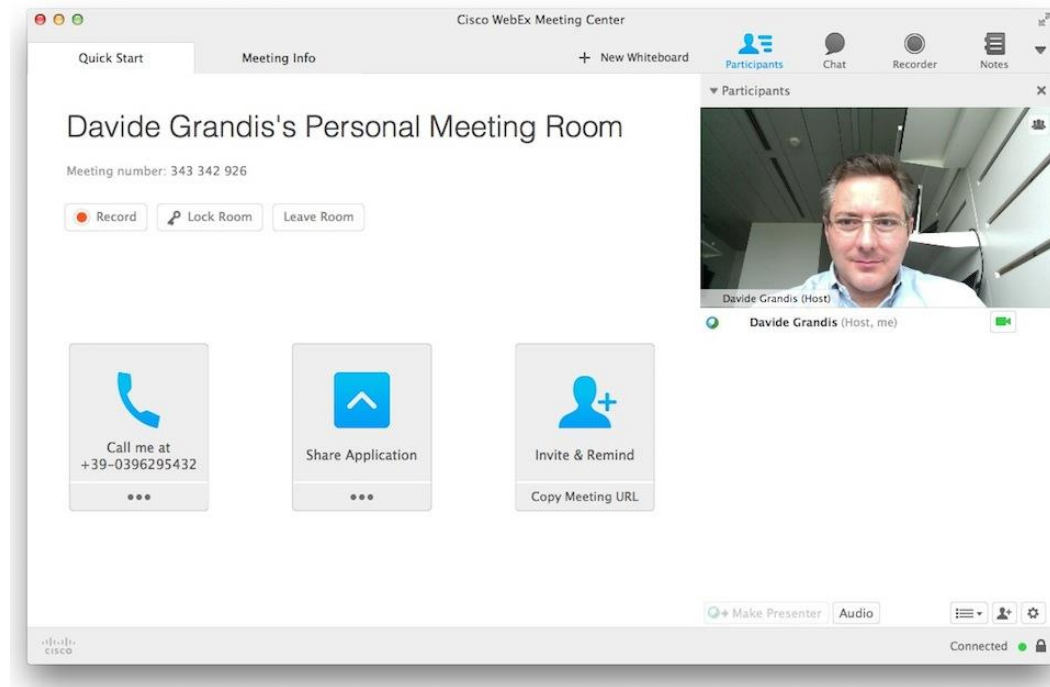
A nighttime photograph of a city street. In the foreground, there are long, curved light trails from cars, primarily in shades of yellow and orange. In the middle ground, a pedestrian bridge with blue lighting spans across the street. In the background, there are several modern buildings with lit windows and some flags on poles. The overall scene is illuminated by city lights.

Personal Meeting Room for Meeting Centre (WebEx release T29.11)

Personal Room for Meeting Centre

What is it?

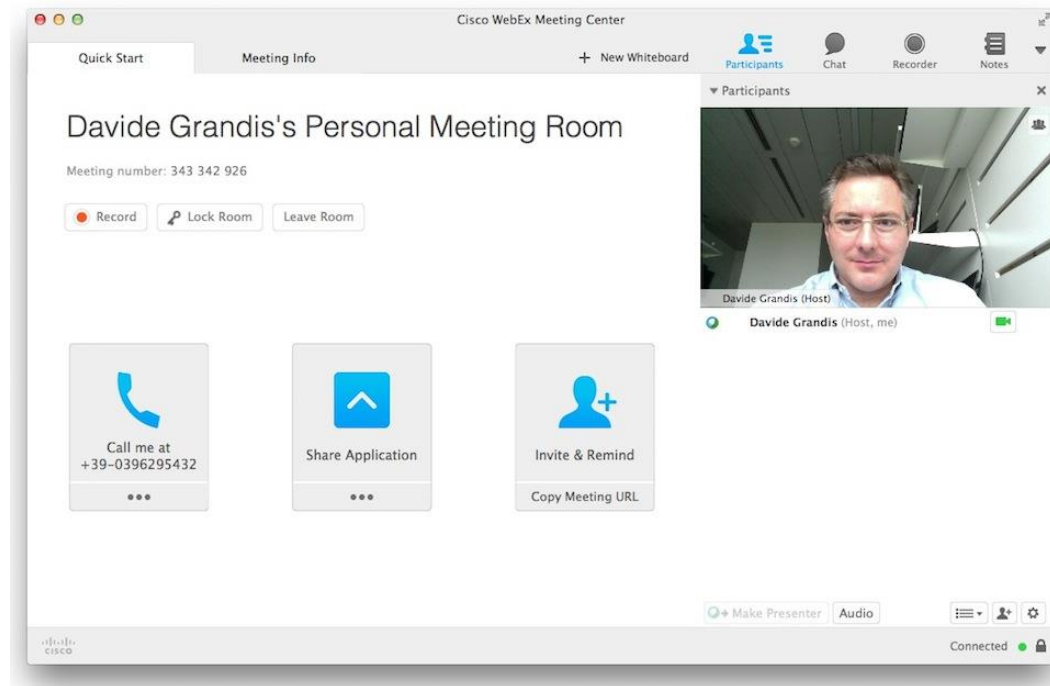
- A new paradigm for a standard Meeting Centre meeting;
- Your own MC meeting with a permanent meeting link:
cisco.webex.com/meet/jsmith
- Every MC host gets one by default for free;
- Video device information is hidden if CMR is not enabled for the user (PR is now separate from CMR).



Personal Room for Meeting Centre

What is different?

- Link never changes (unless you want it to);
- Lock/unlock room much more prominent;
- Waiting attendees in the lobby can be managed.



Personal Room for Meeting Centre

How it works?

- Can be enabled/disabled at site level (global) and host level;
- Replaces the old Personal Room (even if disabled).

Privileges:

Service	Session Type Allowed
	Select All Clear All
Meeting Center	<input checked="" type="checkbox"/> PRO: Meeting Center Pro meeting <input checked="" type="checkbox"/> PRO: Meeting Center Telepresence

Security: Force this user to change password on next login
 Reset password
 Account locked out

General: Recording Editor
 Turn on high-quality video (360p)
 Turn on high definition video (720p)

Personal Room
 Collaboration Meeting Room

A long-exposure photograph of a city street at night. The foreground is dominated by vibrant, multi-colored light trails from moving vehicles, creating a sense of motion and energy. In the background, a modern pedestrian bridge with blue lighting spans across the street. Tall buildings with illuminated windows and storefronts line the street, and several flags are visible on the left side. The overall scene is a dynamic and brightly lit urban environment.

CMR Resources

CMR Resources

- Pervasive Conferencing on Cisco.com

<http://www.cisco.com/go/cmr>

- CMR Space on the Cisco Collaboration Community (for Partners)

http://communities.cisco.com/community/technology/collaboration/collaboration_applications

- CMR Cloud Enterprise Deployment Guide

<http://www.cisco.com/c/dam/en/us/td/docs/telepresence/infrastructure/solutions/cmrcld/CMRCloudEnterpriseDeployment29-8.pdf>



Important KB Articles For Supporting Lync Beta

- [WBX86124](#) - How Do Lync Attendees Connect to a Personal Room or Scheduled Meeting in CMR Cloud?
- [WBX86376](#) - Lync Users are Experiencing Audio Only in CMR Cloud
- [WBX86808](#) – I Can't Call into a CMR Cloud Meeting Using Lync Online
- [WBX83779](#) – What are the System Requirements for Collaboration Meeting Rooms (CMR) Cloud?



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