COLLABORATION TRANSITIONS

Meetings:

Transitioning from Cisco Webex Meeting Server to Cisco Meeting Server

CTG Technical Marketing Engineering Team

Updated: May 12, 2020
Contents

Scenario Introduction ........................................... 3
  Decision Tree
  Overview
  Architecture
  Scope

Mapping the Transition ........................................ 8
  High-Level Transition Map
  Step 0: Cisco Webex Meeting Server
    Cisco Webex Meeting Server Meetings Flow
  Step 1: Cisco Meeting Server
    What Changes w./ Cisco Meeting Server?
    After: Cisco Meeting Server
    Cisco Meeting Server Meetings Flow
  Meeting Server: Commitment to On-Premises Conferencing
  Why Move to Cisco Meeting Server?
  What is Different when Moving to Cisco Meeting Server?
  Considerations: Conference Scheduling and Management
  System Deployment and Administration
  User Experience
  Licensing

References ..................................................... 29
Collaboration Transitions

Meetings: Transitioning from Cisco Webex Meeting Server to Cisco Meeting Server

Scenario Introduction
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

Scenario Introduction: Decision Tree

This scenario applies specifically to customers transitioning to Cisco Meeting Server on-premises meetings.

Consider carefully before making this transition if you have requirements for:

» Keeping workloads in the cloud. For a cloud strategy consider Webex.
» CWMS features like application sharing and Blast Dial are key requirements.
» Advanced audio-conferencing features.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

Scenario Introduction: Overview

Meetings transition scenario covering the transition from legacy on-premises meetings to the latest on-premises meetings environment

Scenario Objective

- To evaluate the transition FROM Cisco Webex Meeting Server (legacy on-premises meeting solution) TO Cisco Meeting Server (current on-premises meeting solution)

- To explore the meeting solution transition with a focus on:
  - Operator Experience: Conference management, and conference troubleshooting functions
  - Administrator experience: Provisioning, management, and troubleshooting.
  - User experience: Scheduling, meeting features and functions.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Scenario Introduction: Base Architecture

» Architecture based on the Enterprise On-Premises Preferred Architecture

» Endpoints register to on-premises call control: Unified CM or Expressway (formerly VCS).

» Expressway-C/E pairs enable firewall traversal for endpoint registration.

» Audio conferencing deployment with Cisco Webex Meeting Server (CWMS)

» CWMS Internet Reverse Proxy (IRP) enables firewall traversal for remote meeting participants.

1 Exception is the conferencing workload which is handled by Cisco Meeting Server in this PA.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

Scenario Introduction: Scope

• Conferencing resources are moved from legacy on-premises Cisco Webex Meeting Server solution to the latest on-premises meeting solution, Cisco Meeting Server.
  » Cisco Meeting Management (CMM), as a part of the Cisco Meeting Server architecture is included in this scenario. With CMS 2.9 CMM is optional, beginning with CMS 3.0 CMM is a mandatory component of a CMS solution.

• Only features and functions for on-premises conferencing deployment were evaluated with the Cisco Meeting Server meeting environment.
  » 80/20 Rule: It is expected this scenario will be applicable to ~80% of enterprise customers, understanding that ~20% of customers may have additional considerations or requirements not covered. However, even in those cases, this transition map may still be used as a potential future path of transition.

• Only Cisco IP Phones, Cisco Jabber (desktop and mobile), the Cisco Meeting Server web app, and Cisco CE endpoints were evaluated.
  » All endpoints remain registered to on-premises call control: Unified CM or Expressway.
  » Cloud applications and cloud-registered endpoints are not considered for this scenario.
Collaboration Transitions

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Mapping the Transition
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Mapping the Transition: High-Level Transition Map

Note: This map is a visual representation of the workload transition(s), highlighting the primary architectural changes during the deployment.

Expressway MRA is an optional feature.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Mapping the Transition: Step 0 – Webex Meeting Server

Note: This map is a visual representation of the workload transition(s), highlighting the primary architectural changes during the deployment.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Cisco Webex Meeting Server Deployment

Meeting URLs:
https://<meeting1>.example.com
https://<meeting2>.example.com
...

Conference resources:
Webex Meeting Server is the conference bridge for on-premises multi-point meetings

Call Control:
Unified CM or Expressway

Call control: Unified CM (or Expressway) provide endpoint registration and call routing.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Cisco Webex Meeting Server Meetings Flow

Meeting URL: https://<meeting1>.example.com
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Mapping the Transition: Step 1 – Cisco Meeting Server

Note: This map is a visual representation of the workload transition(s), highlighting the primary architectural changes during the deployment.

Expressway MRA is an optional feature.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

What Changes with Cisco Meeting Server?

• **Conference Resources:** Replace Cisco Webex Meeting Server (CWMS)\(^1\) with Cisco Meeting Server (CMS) and Cisco Meeting Management (CMM) for on-premises audio and video conference resources.

• **Scheduling:** Cisco TelePresence Management Suite (TMS) is the scheduling platform for CMS. CMS and TMS can be deployed in parallel with CWMS\(^1\) during transition.

  » Developing feature parity is an ongoing process and some features available in CWMS may not yet be available with CMS/TMS.

    ▪ CMS conference management is performed by CMM.
    ▪ Recording and streaming resources can not be scheduled in CMS.
    ▪ Set audio/video on entry for scheduled conferences not supported.

  » Optionally, include Calendar Connector running on Expressway-C Connector host(s) to integrate with cloud-based enterprise calendaring services (for example, Google and O365)

\(^1\) Maintain Cisco Webex Meeting Server until all recurring scheduled conferences are transitioned to CMS.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
What Changes with Cisco Meeting Server?

• **Operator Resources:** Cisco Meeting Management (CMM) provides real time meetings management for conferences on CMS, including TMS scheduled meetings. High touch environments that require White Glove services not available in CMM may require applications available through Solutions Plus partners such as Vbrick, VQ, and Vyopta.

• **User Experience:** CMS is a robust video conferencing platform enabling high resolution high quality collaborative meetings. CMS provides the Cisco Meeting Server web app enabling user to easily join meetings and control the meeting experience.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Before – Cisco Webex Meeting Server Deployment

On-premises meetings

https://<meeting1>.example.com
https://<meeting2>.example.com
...

Call Control:
Unified CM or
Expressway

Cisco Webex
Meeting Server

CWMS IRP

Expressway
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

Management: TMS enables scheduling of meetings and meeting resources.

Video conference resources: *Cisco Meeting Server (CMS)* is the conference bridge for on-premises multi-point meetings.

Call Control: Unified CM or Expressway

Enterprise Cloud Calendaring: Hybrid Connector is the integration point for @meet scheduling.

Meeting URIs:
- Meeting1@example.com
- Meeting2@example.com
- …

Optional component. Deploy Expressway-C Connector host(s) and Calendar Connector for cloud-based enterprise calendaring integrations (Google, O365).

Cisco Meeting Management (CMM) provides management for meetings hosted by CMS.

Call control: Unified CM (or Expressway) provide endpoint registration and call routing.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

After – Cisco Meeting Server Meetings Flow

Meeting URI: Meeting1@example.com
Transitioning on-premises meetings to Cisco Meeting Server provides investment protection of existing video conferencing infrastructure and ensures support for future product updates and improvements.

Cisco Meeting Server adheres to stringent security models.

- FIPS-140-2
- JITC certified
- TLS
- AES Encryption

Cisco Meeting Server leverages a single platform to provide a voice and video solution and with Cisco Meeting Server web app adds web conferencing to the solution.

Cisco Meeting Server can scale to meet virtually any size requirement.

- Geographic distribution of meetings across Call Bridge CMS nodes
- Flex, A CMS, SMP/PMP licensing, not port based licensing

1 All control data is authenticated and encrypted (industry-standard Transport Layer Security [TLS] and Secure Sockets Layer [SSL])
2 IP media (video and audio) is Advanced Encryption Standard (AES) encrypted (industry-standard Secure Real-Time Transport Protocol [SRTP])
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

Why Move to Cisco Meeting Server?

There are many other compelling reasons for transitioning from Cisco Webex Meeting Server to Cisco Meeting Server:

- Tightly integrated with the Cisco Collaboration portfolio for best user experience.
- One on-premises solution for voice, video, and web conferencing.
- Robust interoperability with Microsoft Skype for Business.
- Consistent conferencing application user experience.
  - Cisco Meeting Server web app
  - Cisco Jabber
- Improved scheduling experience with @meet scheduling.
  - Join meetings from on-premise or cloud-based endpoints.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

Why Move to Cisco Meeting Server? (cont.)

There are many other compelling reasons for transitioning from Cisco Webex Meeting Server to Cisco Meeting Server (cont.):

• Robust APIs provides the ability to customize the solution as required.
  • Beginning with CMS 2.9 the CMS API Explorer tool provides a simplified interface for accessing APIs.
  • Custom layouts configured by API allow for deep customization of the meeting experience.

• End of Life for Cisco Webex Meeting Server is approaching (July 8, 2020)
  » The solution for on-premises conferencing will continue with Cisco Meeting Server providing business quality on-premises based audio, video and web conferencing.

Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

What is Different When Moving to Cisco Meeting Server?

The following tables highlight key technical considerations to be aware of when transitioning from Cisco Webex Meeting Server to a Cisco Meeting Server deployment.

The considerations have been divided into the following categories:

» Conference Scheduling and Management
» System Deployment and Administration
» User Experience
» Licensing
## Operator experience considerations for conference scheduling

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
</tr>
</thead>
</table>
| **Scheduling**     | • Manual migration of existing conferences that were scheduled for CWMS as the conference resource can be accomplished by:  
                      » Run CWMS and CMS in parallel with new conferences using the CMS as the bridge resource until CWMS scheduled conferences are exhausted and then decommission CWMS  
                      • Cisco Meeting Server can be integrated with Google and O365 cloud-based calendaring services via Expressway-C Calendar Connectors.  
                      • Some features available when scheduling CWMS are not available when CMS is the conference bridge.  
                        » Schedule Personal Meeting Room (PMR)  
                        » Adding recording and streaming when scheduling meetings  
                        » Announce name when a participant joins |
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
Conference Scheduling and Management Considerations

Operator experience for conference management

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
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</thead>
<tbody>
<tr>
<td>Management</td>
<td>• Conference management for CMS is available with:</td>
</tr>
<tr>
<td></td>
<td>» Cisco Meeting Management – Delivers real-time conferencing operator services.</td>
</tr>
<tr>
<td></td>
<td>» Cisco Meeting Server web app – Application for host conference join and control interface.</td>
</tr>
<tr>
<td></td>
<td>» Cisco TelePresence Management Suite – Conference scheduling platform.</td>
</tr>
<tr>
<td></td>
<td>» VQ Communications – Solution Plus partner product providing advanced management tools.</td>
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<tr>
<td></td>
<td>» Vyopta – Solution Plus partner offering for analytics and assurance.</td>
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</tbody>
</table>
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
System Deployment and Administration Considerations

Considerations for CMS/CMM deployment and administration

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
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</thead>
</table>
| Deployment | • CMS can be deployed as hardware on Cisco UCS servers, CMS1000, or CMS 2000. It can also be deployed as software on specifications-based platforms.  
• Multiple CMS Call Bridge nodes can be clustered to provide scale, resiliency, and geographical distribution.  
• Leverage robust APIs for configuration and customization of the CMS deployment. Complete deployment is accomplished using:  
  » Console  
  » Web UI  
  » APIs – including use of Cisco Meeting Server API Explorer  
  » SFTP  
  » Cisco Meeting Server Install Assistant (for initial deployment beginning with CMS 2.9)  
• CMS provides voice support as well as providing video and web collaboration  
  » Voice over IP (VoIP)  
  » SIP trunk to Unified CM or other PSTN Gateway |
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
System Deployment and Administration Considerations

Considerations for CMS/CMM deployment and administration

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
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</table>
| Administration | • The role of administrator in CMS is focused on configuration, maintenance and system health. When performing administrative tasks such as upgrading, or system backup different interfaces are required including:  
  » SFTP client – used to upload and download files (upgrade, license, and back up files).  
  » Console – accessed via SSH and used to initiate upgrades and backups.  
  » Web Interface – accessed via HTTPS to perform configuration tasks.  
  » REST API client – for deployment customization.  
• CMM has two roles available: Administrator and Operator. The Administrator role has full access to all functions in meeting management as well as administrative tasks. Interfaces required for administration of CMM include:  
  » Console – accessed via SSH for initial deployment.  
  » Web Interface – upgrades and backups.  
  » CMM – can provision templates for CMS web app users                                                                                           |

1 Initial install may be performed with Cisco Meeting Server Install Assistant (CMS 2.9 and later).  
2 Cisco Meeting Server API Explorer provides simplified API access.
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server
User Experience Considerations

Considerations for end user experience

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
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<tbody>
<tr>
<td>User Experience</td>
<td>• Users schedule meetings using Cisco TMS and have the option of joining meetings by dialing a URI or using One Button to Push (OBTP).</td>
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<tr>
<td></td>
<td>• Guests are invited to join and participate in meetings using a web link.</td>
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<tr>
<td></td>
<td>• Beginning with CMS 2.9, Cisco Meeting Server web app is available. The web app is a browser-based client that allows users to manage and fully participate in meetings without the need for an installed application.</td>
</tr>
<tr>
<td></td>
<td>• CMS provides multiple layouts to meet customer’s meetings requirements. The optional Custom Layouts feature provides the ability to fully customize layouts for specific requirements.</td>
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<td></td>
<td>• Features available for voice participants include:</td>
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<tr>
<td></td>
<td>• Lock/Unlock status.</td>
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<td></td>
<td>• Number of participants in meeting.</td>
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<td>• DTMF tones to access meeting participant counts and IVR’s.</td>
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# Meetings: Cisco Webex Meeting Server to Cisco Meeting Server Licensing Considerations

## Cisco Meeting Server system licensing

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
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<tbody>
<tr>
<td>Licensing</td>
<td><strong>Perpetual licensing:</strong></td>
</tr>
<tr>
<td></td>
<td>• Personal Multiparty - named host license</td>
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<td></td>
<td>• Shared Multiparty - shared host license</td>
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<tr>
<td></td>
<td>• Recording and Streaming – per port</td>
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<tr>
<td></td>
<td>• Custom Layouts</td>
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<td></td>
<td>• Cisco Enterprise Agreement</td>
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<tr>
<td></td>
<td><strong>Subscription licensing:</strong></td>
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<tr>
<td></td>
<td>• Cisco Collaboration Flex Plan</td>
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<tr>
<td></td>
<td>• A-CMS Subscription</td>
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<tr>
<td></td>
<td>• Trade-in transfer credit for existing CWMS customers</td>
</tr>
<tr>
<td></td>
<td><strong>Additional licensing considerations</strong></td>
</tr>
<tr>
<td></td>
<td>• TMS licensing for scheduling</td>
</tr>
</tbody>
</table>
Meetings: Transitioning from Cisco Webex Meeting Server to Cisco Meeting Server

References
Meetings: Cisco Webex Meeting Server to Cisco Meeting Server

Cisco Meeting Server Support Sites

• Cisco Meeting Server (CMS) FAQ
  https://meeting-infohub.cisco.com/faq/

• Cisco Meeting Server Support

• Cisco Meeting Server Configuration Guides

• Deployment Guide for Cisco Webex Hybrid Calendar Service

• Cisco Meeting Server web app documentation

Cisco Meeting Server DevNet Resources

• Cisco Meeting Server DevNet Site
  https://developer.cisco.com/cisco-meeting-server/

• REST API Primer
  https://developer.cisco.com/docs/cisco-meeting-server/

• CMS Apiary
  https://ciscocms.docs.apiary.io/

Meetings Transition Deployment Guide

• Meetings: Transitioning from CWMS to Cisco Meeting Server Deployment Guide: COMING SOON