COLLABORATION TRANSITIONS

Meetings:

Transitioning from TelePresence Server to Cisco Meeting Server

CTG Technical Marketing Engineering Team
Scenario Introduction ............................. 3
  Decision Tree
  Overview
  Architecture
  Scope

Mapping the Transition ............................. 8
  High-Level Transition Map
  Step 0: TelePresence Server / Conductor
    TelePresence Server/ Conductor 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
Collaboration Transitions

Meetings: Transitioning from TelePresence Server to Cisco Meeting Server

Scenario Introduction
Meetings: TelePresence 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:

» Meetings primarily in the cloud
» High touch white glove
  • Zero touch meetings
  • Full meeting management
» Have large numbers of meetings scheduled for the future
Meetings: TelePresence 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 TelePresence Server (TS) / Conductor (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: TelePresence Server to Cisco Meeting Server

Scenario Introduction: Base Architecture

» Architecture based on the Enterprise On-Premises Preferred Architecture (version 11.0)\(^1\)

» Video deployment with Conductor, TelePresence Server (TS), and TelePresence Management Suite (TMS)

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

» Expressway-C/E pairs for firewall traversal

---

\(^1\) While later versions of the Enterprise On-Premises PA are available, version 11.0 is the last version that included TelePresence Server (TS). After that version, TS was replaced with Cisco Meeting Server.
Meetings: TelePresence Server to Cisco Meeting Server

Scenario Introduction: Scope

• Conferencing resources are moved from legacy on-premises Conductor / TS meeting 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 video 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 Jabber (desktop and mobile), the Cisco Meeting Server web app, and on-premises registered Cisco CE endpoints were evaluated.
  » All endpoints remain registered to on-premises call control: Unified CM or Expressway (formerly VCS).
  » Cloud applications and cloud-registered endpoints are not considered for this scenario.
Collaboration Transitions

Meetings: Transitioning from TelePresence Server to Cisco Meeting Server

Mapping the Transition
Meetings: TelePresence 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: TelePresence Server to Cisco Meeting Server

Mapping the Transition: Step 0 – TelePresence Server

**0**

**TelePresence Server (TS) / Conductor**

**1**

**Cisco Meeting Server**

On-Premises

Expressway MRA\(^1\)

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

\(^1\)Expressway MRA is an optional feature.
Meetings: TelePresence Server to Cisco Meeting Server
Cisco TelePresence Server/Conductor Deployment

Management:
TMS enables provisioning, management, and scheduling of meetings and meeting resources.

Call Control:
Unified CM or Expressway

Call control: Unified CM (or Expressway) provide endpoint registration and call routing.

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

Video conference resources: TS is the conference bridge for on-premises multi-point meetings

Conference resource allocation: Conductor orchestrates allocation of video conferencing resources

Conductor & TS

Expressway

Video Endpoints
Meetings: TelePresence Server to Cisco Meeting Server

Cisco TelePresence Server/Conductor Meetings Flow

Meeting URI: Meeting1@example.com
Meetings: TelePresence 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: TelePresence Server to Cisco Meeting Server

What Changes with Cisco Meeting Server?

• **Conference Resources:** Replace Conductor / TelePresence Server\(^1\) with Cisco Meeting Server (CMS) and Cisco Meeting Management (CMM) for on-premises conference resources. Cisco Conductor is not required in a CMS deployment.

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

  » Developing feature parity is an ongoing process and some features available in scheduling for TS meetings are not yet available for CMS.
    
    ▪ CMS conference management is performed by CMM.
    ▪ Recording and streaming resources cannot 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 Conductor/TS until all recurring scheduled conferences are transitioned to CMS.
Meetings: TelePresence 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: TelePresence Server to Cisco Meeting Server
Before – TelePresence Server/Conductor Deployment

On-premises meetings

Meeting1@example.com
Meeting2@example.com

Call Control:
Unified CM or Expressway

TMS/TMSXE

Conductor
& TS

Expressway

Video Endpoints

© 2020 Cisco – CTG TME. Collaboration Transitions – Meetings: TS to Cisco Meeting Server
Meetings: TelePresence Server to Cisco Meeting Server

After – Cisco Meeting Server Deployment

Management: **TMS** enables **scheduling** of meetings and meeting resources.

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

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

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

Call Control: Unified CM or Expressway

Call control: **Unified CM** (or Expressway) provide **endpoint registration and call routing**.

Cisco Meeting Server

Hybrid Connectors

1 Optional component. Deploy Expressway-C Connector host(s) and Calendar Connector for cloud-based enterprise calendaring integrations (Google, O365)
Meetings: TelePresence Server to Cisco Meeting Server
After – Cisco Meeting Server Meetings Flow

Meeting URI: Meeting1@example.com
Meetings: TelePresence Server to Cisco Meeting Server

Meeting Server: Commitment to On-Prem Conferencing

• 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
  » TLS¹
  » AES Encryption²

• 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: TelePresence Server to Cisco Meeting Server

Why Move to Cisco Meeting Server?

There are many other compelling reasons for transitioning from TelePresence 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 and Cisco Jabber.
• End of Support for TelePresence Server/Conductor is approaching (February 28, 2021).  

» The solution for on-premises conferencing will continue with Cisco Meeting Server providing business quality on-premises based audio, video and web conferencing.

Meetings: TelePresence Server to Cisco Meeting Server

Why Move to Cisco Meeting Server? (cont.)

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

- Simplified scheduling experience with @meet scheduling: Join meetings from on-premise or cloud based endpoints.

- Maintain workflows with TMS:
  - TMS Scheduling workflow is maintained.
  - No change to endpoint administration and control.
  - One Button to Push functionality.

- 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.
Meetings: TelePresence 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 TelePresence 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
# Meetings: TelePresence Server to Cisco Meeting Server

**Conference Scheduling and Management Considerations**

Operator experience considerations for conference scheduling

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
</tr>
</thead>
</table>
| Scheduling     | • Migration of existing conferences that were scheduled by TMS with TS as the conference resource can be accomplished by:  
                  » Manually editing existing conferences to use CMS as a bridge resource.  
                  » Run TS and CMS in parallel with new conferences using the CMS as the bridge resource until TS scheduled conferences are exhausted and then decommissioning the Conductor/TS.  
                  • Cisco Meeting Server can be integrated with Google and O365 cloud-based calendaring services via Expressway-C Calendar Connectors.  
                  • Some features available in TMS when scheduling TS meetings are not available when CMS is the conference bridge.  
                    » Setting conference layout  
                    » Scheduling a Webex enabled conference  
                    » Adding recording or streaming\(^1\) |

---

\(^1\) Cisco TelePresence Content Server (TCS) is end of sale (see: https://www.cisco.com/c/en/us/products/collateral/conferencing/telepresence-content-server/eos-eol-notice-c51-738191.html) and not supported with CMS
Meetings: TelePresence Server to Cisco Meeting Server
Conference Scheduling and Management Considerations

Operator experience considerations for conference management

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>• Conference management for CMS is available with:</td>
</tr>
<tr>
<td></td>
<td>» <strong>Cisco Meeting Management</strong> – Delivers real-time conferencing operator services.</td>
</tr>
<tr>
<td></td>
<td>» <strong>Cisco Meeting Server web app</strong> – Application for host conference join and control interface.</td>
</tr>
<tr>
<td></td>
<td>» <strong>Cisco TelePresence Management Suite</strong> – Conference scheduling platform.</td>
</tr>
<tr>
<td></td>
<td>• In “High Touch” environments where CMS/CMM does not yet have feature parity with a TS/Conductor environment a 3rd party application may be required.</td>
</tr>
<tr>
<td></td>
<td>» <strong>VQ Communications</strong> – Solution Plus partner product providing advanced management tools.</td>
</tr>
<tr>
<td></td>
<td>» <strong>Vyopta</strong> – Solution Plus partner offering for analytics and assurance.</td>
</tr>
</tbody>
</table>
Meetings: TelePresence 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>
</tr>
</thead>
<tbody>
<tr>
<td>Deployment</td>
<td>• 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.</td>
</tr>
<tr>
<td></td>
<td>• CMS includes Conductor features. Multiple CMS Call Bridge nodes can be clustered to provide scale, resiliency, and geographical distribution</td>
</tr>
<tr>
<td></td>
<td>• Leverage robust APIs for configuration and customization of the CMS deployment. Complete deployment is accomplished using:</td>
</tr>
<tr>
<td></td>
<td>» Console</td>
</tr>
<tr>
<td></td>
<td>» Web UI</td>
</tr>
<tr>
<td></td>
<td>» APIs – including use of Cisco Meeting Server API Explorer</td>
</tr>
<tr>
<td></td>
<td>» SFTP</td>
</tr>
<tr>
<td></td>
<td>» Cisco Meeting Server Install Assistant (for initial deployment beginning with CMS 2.9)</td>
</tr>
</tbody>
</table>
## Meetings: TelePresence 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>
</tr>
</thead>
</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: TelePresence Server to Cisco Meeting Server

## User Experience Considerations

Considerations for end user experience

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
</tr>
</thead>
</table>
| User Experience | • Users schedule meetings using Cisco TMS and have the option of joining meetings by dialing a URI or using One Button to Push (OBTP).  
• Guests are invited to join and participate in meetings using a web link.  
• 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. Features that can be managed include: creating Spaces, Presentation Mode, roster list and layout control.  
• CMS provides multiple layouts to meet customers meetings requirements and the optional Custom Layouts feature provides the ability to fully customize layouts to specific requirements.  
• Features available for voice participants include:  
  • Lock/Unlock status  
  • Number of participants in meeting  
  • DTMF tones to access meeting participant counts and IVR’s |

© 2020 Cisco - CTG TME
Meetings: TelePresence Server to Cisco Meeting Server
Licensing Considerations

Considerations for system licensing

<table>
<thead>
<tr>
<th>Category</th>
<th>Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Licensing</td>
<td>Perpetual licensing:</td>
</tr>
<tr>
<td></td>
<td>• Personal Multiparty - named host license</td>
</tr>
<tr>
<td></td>
<td>• Shared Multiparty - shared host license</td>
</tr>
<tr>
<td></td>
<td>• Recording and Streaming - per port</td>
</tr>
<tr>
<td></td>
<td>• Custom Layouts</td>
</tr>
<tr>
<td></td>
<td>• Cisco Enterprise Agreement</td>
</tr>
<tr>
<td></td>
<td>Subscription licensing:</td>
</tr>
<tr>
<td></td>
<td>• Cisco Collaboration Flex Plan</td>
</tr>
<tr>
<td></td>
<td>• A-CMS Subscription</td>
</tr>
<tr>
<td></td>
<td>Additional licensing considerations</td>
</tr>
<tr>
<td></td>
<td>• TMS licensing for scheduling</td>
</tr>
</tbody>
</table>
Collaboration Transitions

Meetings: Transitioning from TelePresence Server to Cisco Meeting Server

References
Meetings: TelePresence Server to Cisco Meeting Server

References

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 TS to Cisco Meeting Server Deployment Guide: