

# COLLABORATION TRANSITIONS

---

Meetings:

## Transitioning from TelePresence Server / CMR-H Bridging to Webex

CTG Technical Marketing Engineering Team

# Contents

## Scenario Introduction ..... [3](#)

- Decision Tree
- Overview
- Base Architecture
- Scope

## Mapping the Transition ..... [8](#)

- High-Level Transition Map
- Step 0: Cisco Video Deployment
  - Cisco Video Deployment Meeting Call Flow
- Step 1: Webex Cloud Meetings
  - What Changes w./ Webex Cloud Meetings
  - After: Webex Cloud Meetings
  - Webex Meeting Call Flow
- Webex Meetings Reduce Cost & Simplify Support
- Why Move to Webex Meetings?
- What is Different when Moving to Webex Meetings?
- Considerations: Video Mesh Meetings

## References ..... [25](#)

## Alternate Transition: CMR-H to Webex ..... [28](#)

- Step 0: Before - CMR Hybrid
- Step 1: After - Webex Meetings
- References: CMR-H to Webex



Collaboration Transitions

# Meetings: Transitioning On-Premises Bridging to Webex

## Scenario Introduction

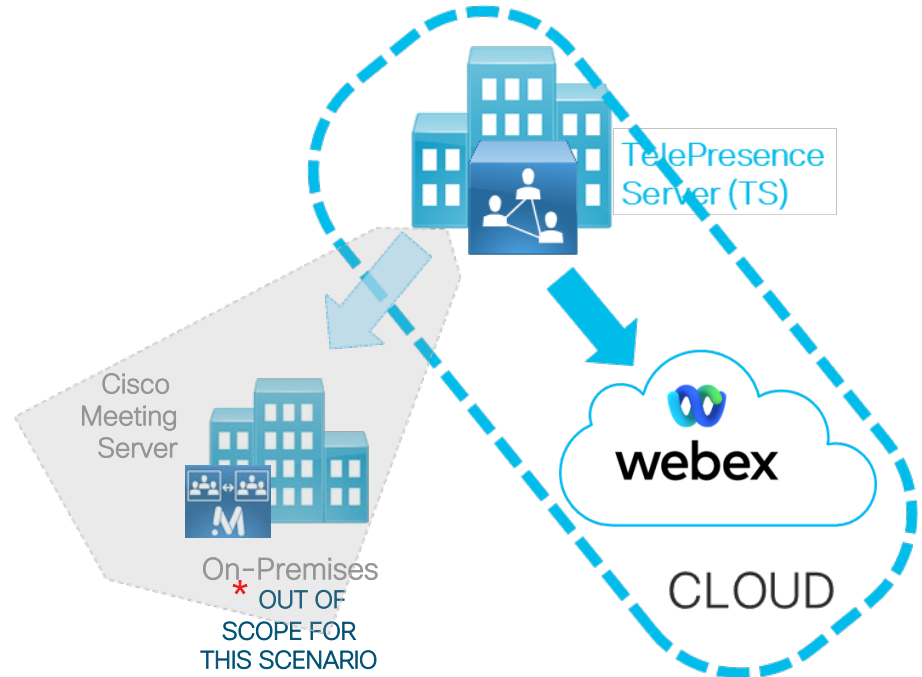
# Meetings: Transitioning On-Premises Bridging to Webex

## Scenario Introduction: Decision Tree

This scenario applies specifically to customers transitioning to **Webex** cloud meetings.

Keep meetings **on-premises\*** if the requirements include:

- » High touch white glove
- » On-premises Microsoft interop
- » “No cloud” policy



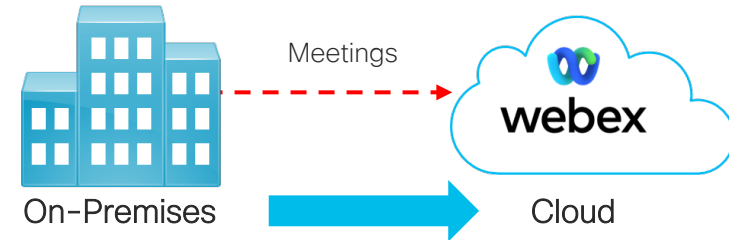
# Meetings: Transitioning On-Premises Bridging to Webex

## Scenario Introduction: Overview

Meeting transitions scenario covering the transition from an on-premises to a cloud meeting environment

### Scenario Objective

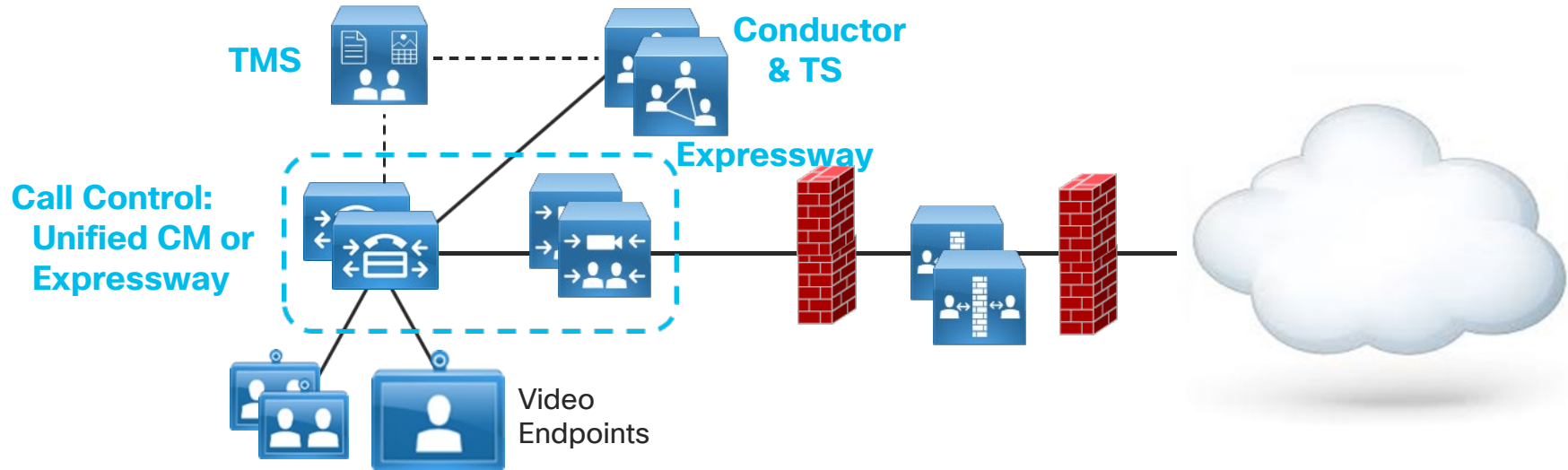
- To evaluate the transition **FROM TelePresence Server (TS)**<sup>1</sup> (traditional on-premises meeting solution) **TO Webex** and video mesh (cloud meeting solution).
- To explore the meeting solution transition with a focus on:
  - » **User experience:** Scheduling, meeting features and functions.
  - » **Administrative experience:** Provisioning, management, and troubleshooting.



<sup>1</sup> For transitions from Collaboration Meeting Room (CMR) Hybrid, refer to the [Alternate Transitions: CMR-H to Webex](#) section near the end of this document.


# Meetings: Transitioning On-Premises Bridging to Webex

## Scenario Introduction: Base Architecture



- » Architecture based on the **Enterprise On-Premises Preferred Architecture** (version 11.0)<sup>1</sup>
- » 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

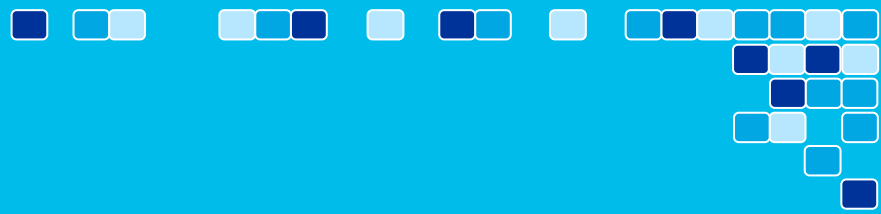
<sup>1</sup> While later versions of the Enterprise On-Premises PA are available, version 11.0 is the last version that included TelePresence Server (TS). After that version, TS was replaced with Cisco Meeting Server. All other aspects of the latest Enterprise On-Premises PA still apply to this transition.



# Meetings: Transitioning On-Premises Bridging to Webex

## Scenario Introduction: Scope

- Video conferencing resources are moved from on-premises (Conductor/TS) to cloud hosted (Webex).
  - » Note that the [Webex Video Mesh Node \(VMN\)](#), as a part of Cisco's cloud hosted architecture, is an on-premises component of the cloud solution and included in this scenario.
- Only [features and functions for on-premises video conferencing deployment](#) were evaluated with the Webex meeting solution.
  - » 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 [Webex Meetings App](#) (desktop and mobile), and [on-premises registered Cisco CE endpoints](#) were evaluated.
  - » **All endpoints remain registered to on-premises call control:** Unified CM or Expressway (formerly VCS).
  - » Webex App and Webex cloud-registered endpoints are not considered for this scenario.



Collaboration Transitions

# Meetings: Transitioning On-Premises Bridging to Webex

## Mapping the Transition

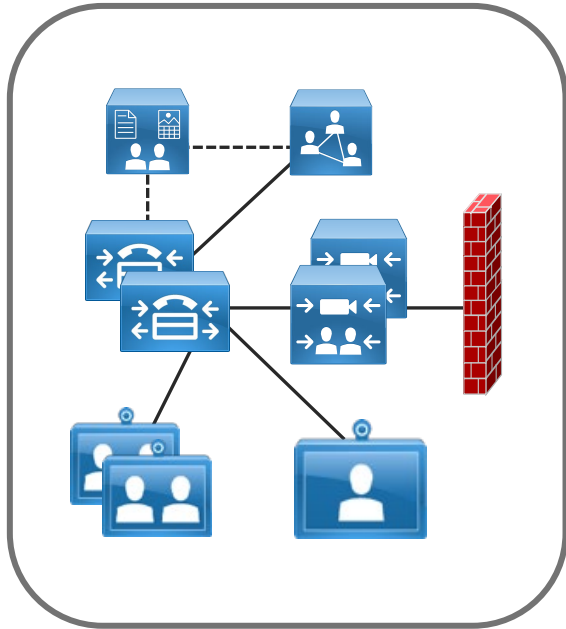


# Meetings: Transitioning On-Premises Bridging to Webex

## Mapping the Transition: High-Level Transition Map

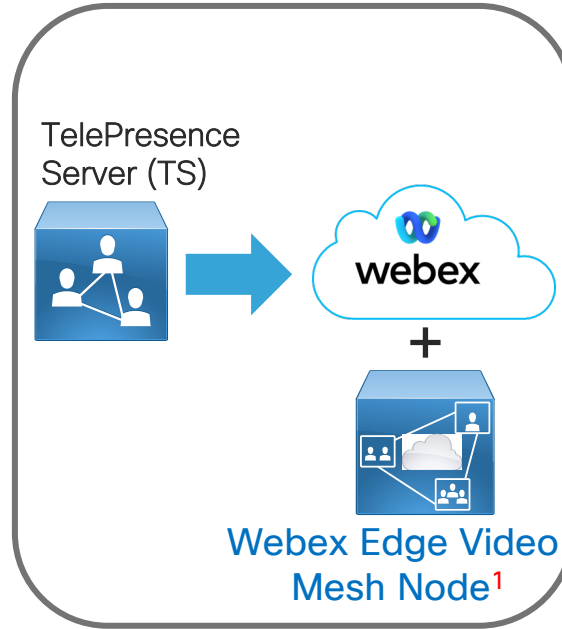
0

### Cisco Video Deployment



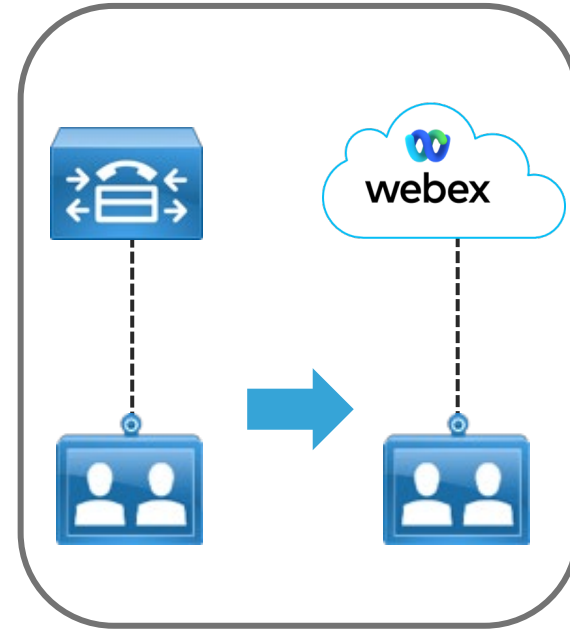
1

### Webex Cloud Meetings



2

### Cloud Registered Endpoints



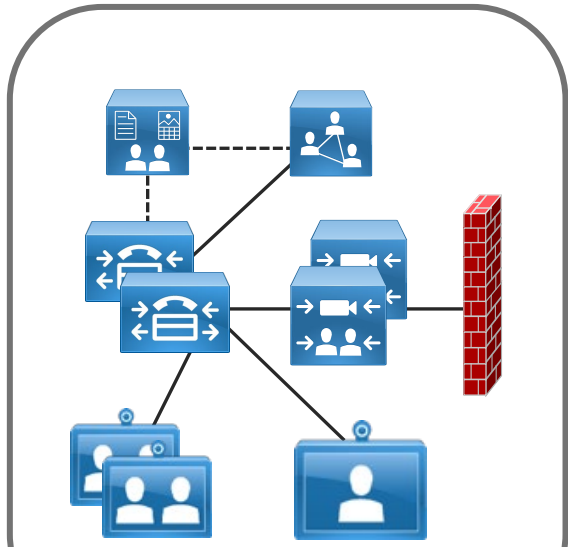
Note: This map is a visual representation of the workload transition(s), highlighting the primary architectural changes during the deployment.

# Meetings: Transitioning On-Premises Bridging to Webex

## Mapping the Transition: High-Level Transition Map

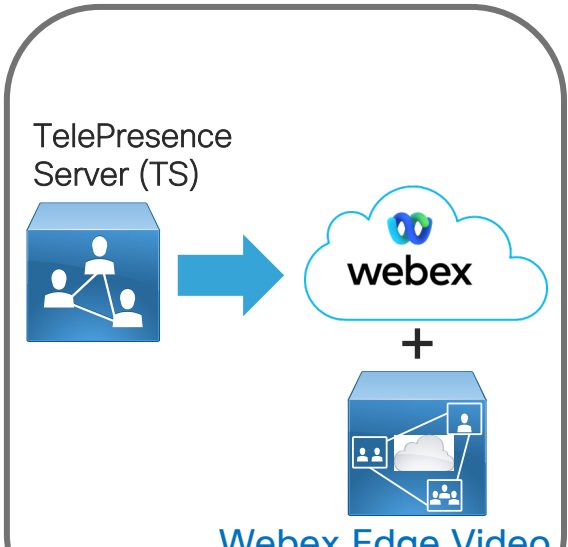
0

### Cisco Video Deployment



1

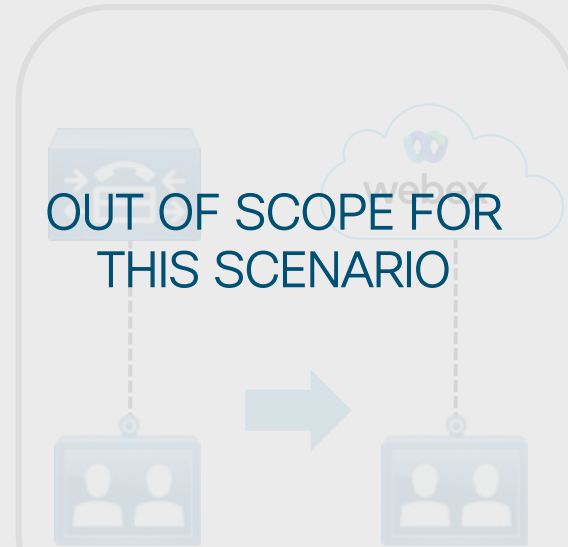
### Webex Cloud Meetings



SCENARIO FOCUS

2

### Cloud Registered Endpoints



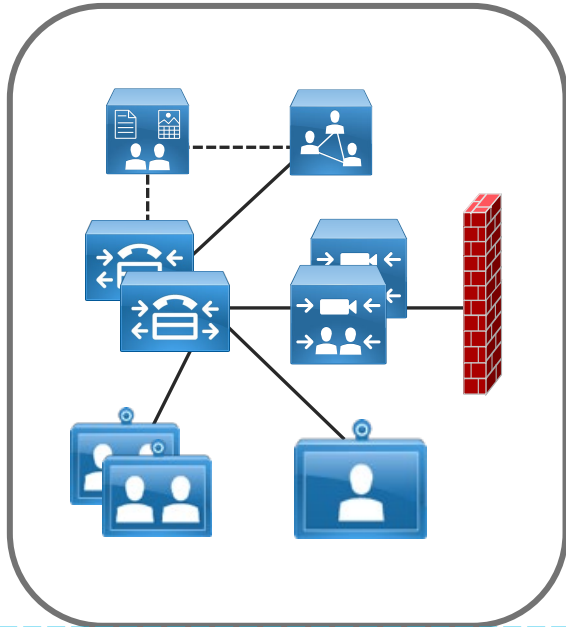
Note: This map is a visual representation of the workload transition(s), highlighting the primary architectural changes during the deployment.

# Meetings: Transitioning On-Premises Bridging to Webex

## Mapping the Transition: Step 0 – Cisco Video Deployment

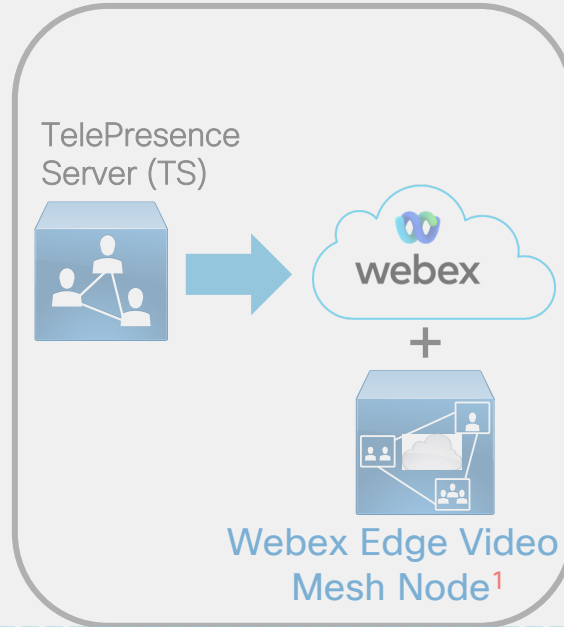
0

### Cisco Video Deployment



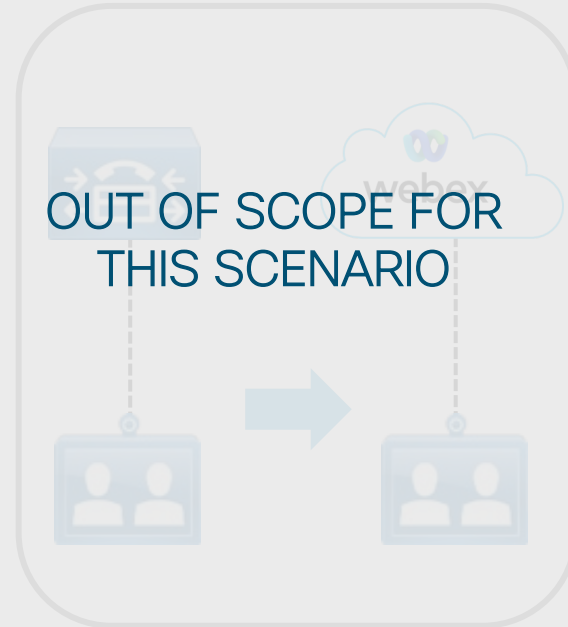
1

### Webex Cloud Meetings



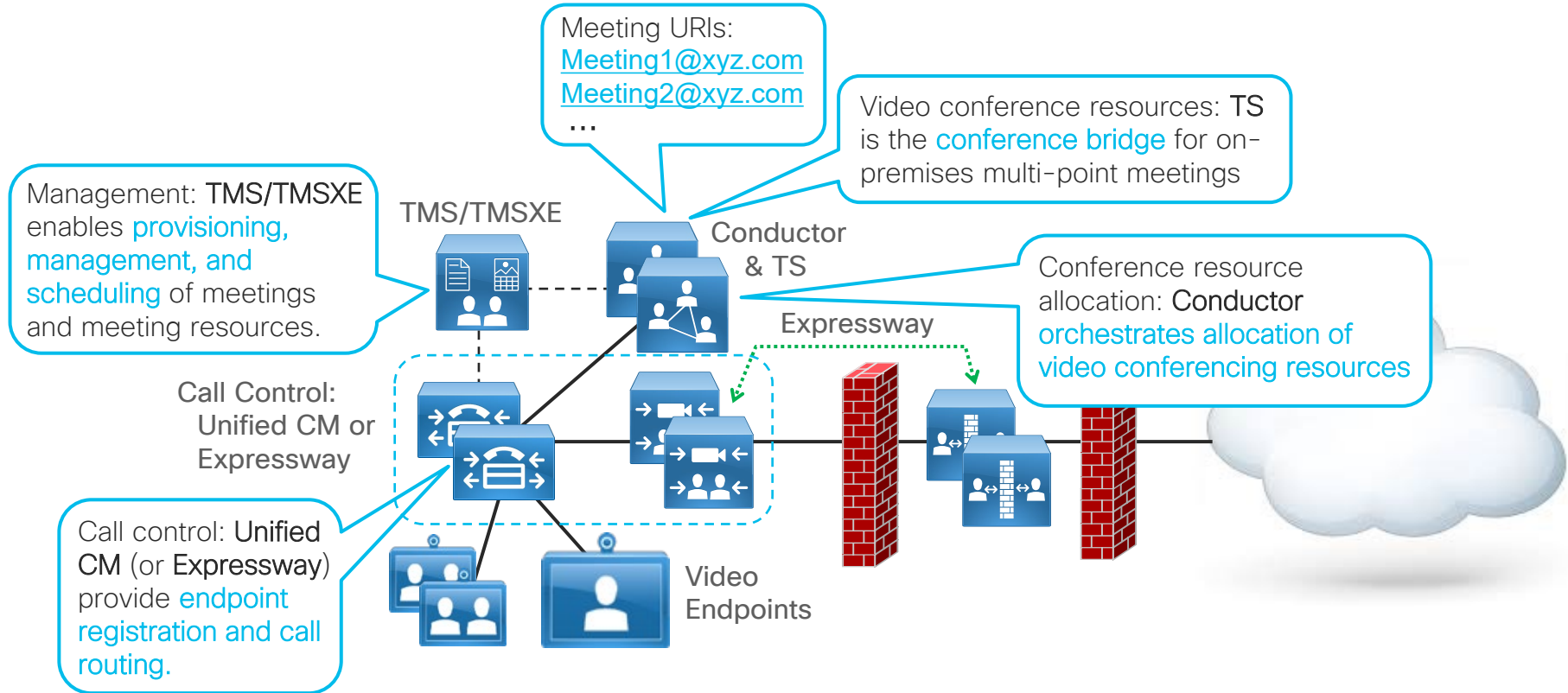
2

### Cloud Registered Endpoints



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

# 0 Meetings: Transitioning On-Premises Bridging to Webex Cisco Video Deployment

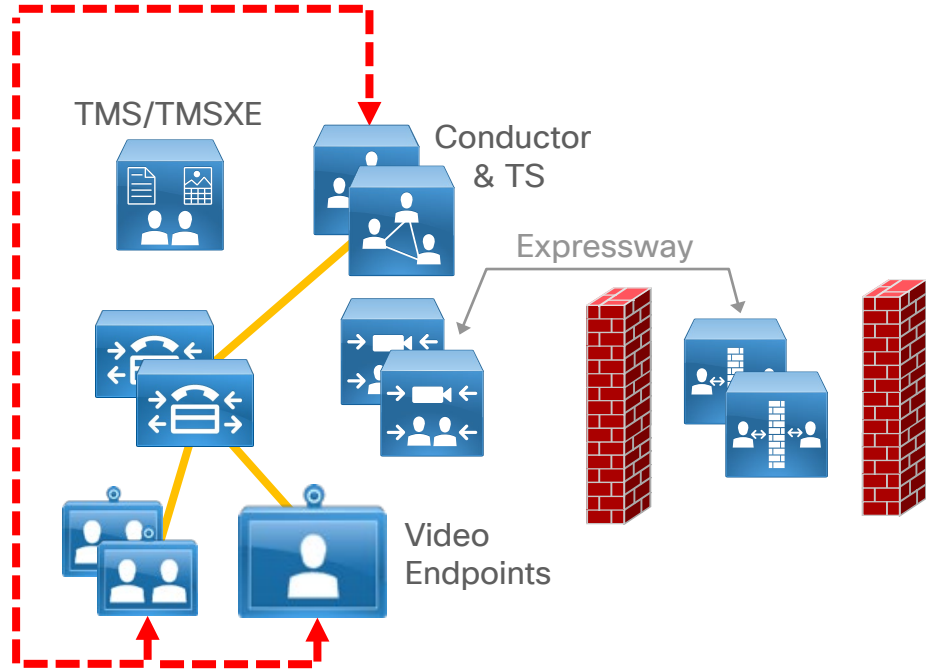


# 0 Meetings: Transitioning On-Premises Bridging to Webex Cisco Video Deployment Meeting Call Flow



Meeting URI:  
[Meeting1@example.com](mailto:Meeting1@example.com)

Signaling ————  
Media - - - - -

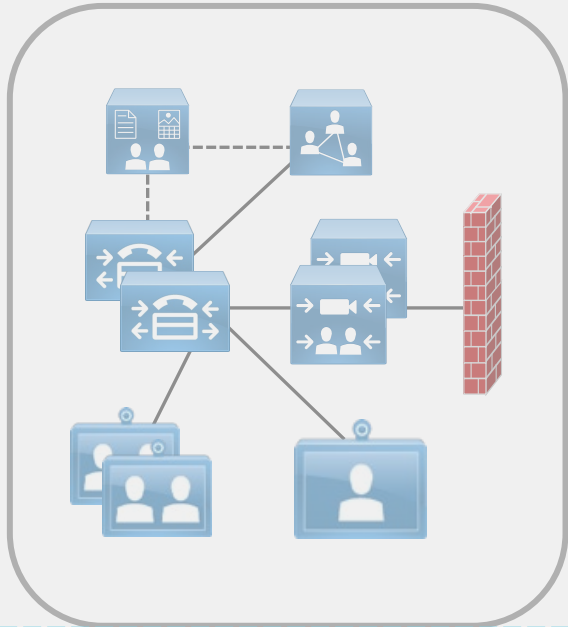


# Meetings: Transitioning On-Premises Bridging to Webex

## Mapping the Transition: Step 1 – Cisco Cloud Meetings

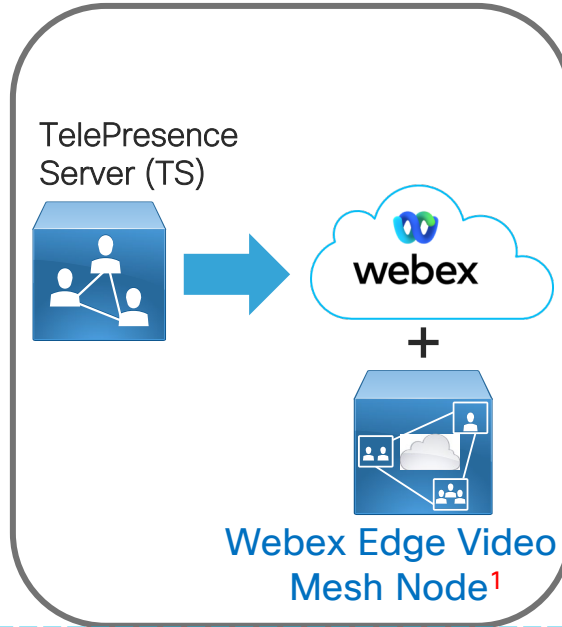
0

### Cisco Video Deployment



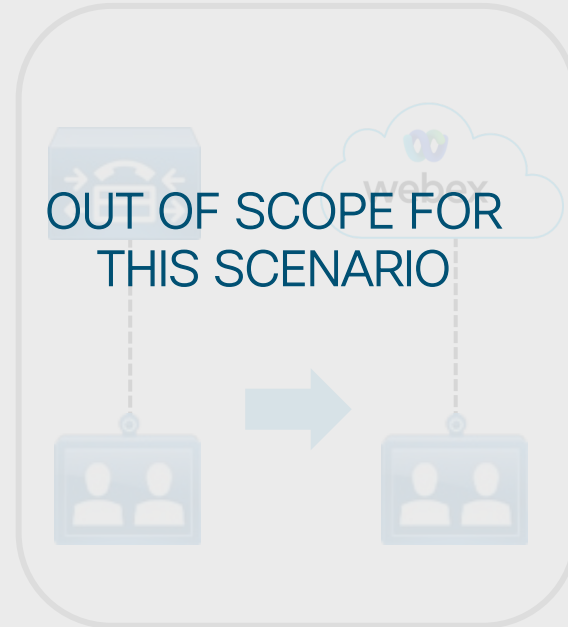
1

### Webex Cloud Meetings



2

### Cloud Registered Endpoints



OUT OF SCOPE FOR THIS SCENARIO

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

# 1

## Meetings: Transitioning On-Premises Bridging to Webex What Changes with Webex Meetings?



- **Licensing:** Move to Flex Meetings licensing and Webex video platform.
- **Meeting URIs:** On-premises meeting URIs change to Webex domain URIs - e.g. [Meeting1@example.com](mailto:Meeting1@example.com) → [Meeting1@example.webex.com](mailto:Meeting1@example.webex.com)
- **Conference Resources:** Replace on-premises video conference resources Conductor/TS<sup>1</sup> with Webex Video Mesh for local on-premises conference resources of cloud meetings



### • Hybrid Connectors:

- » Deploy Directory Connector for on-premises to cloud directory integration.
- » Deploy Expressway-C Connector host and Calendar Connector<sup>2</sup> for corporate calendar integration with cloud calendar service.
- » Deploy Webex Device Connector for hybrid device registration enabling cloud analytics and cloud features for on-premises registered endpoints.



Expressway-C Connector host w./ Calendar Connector

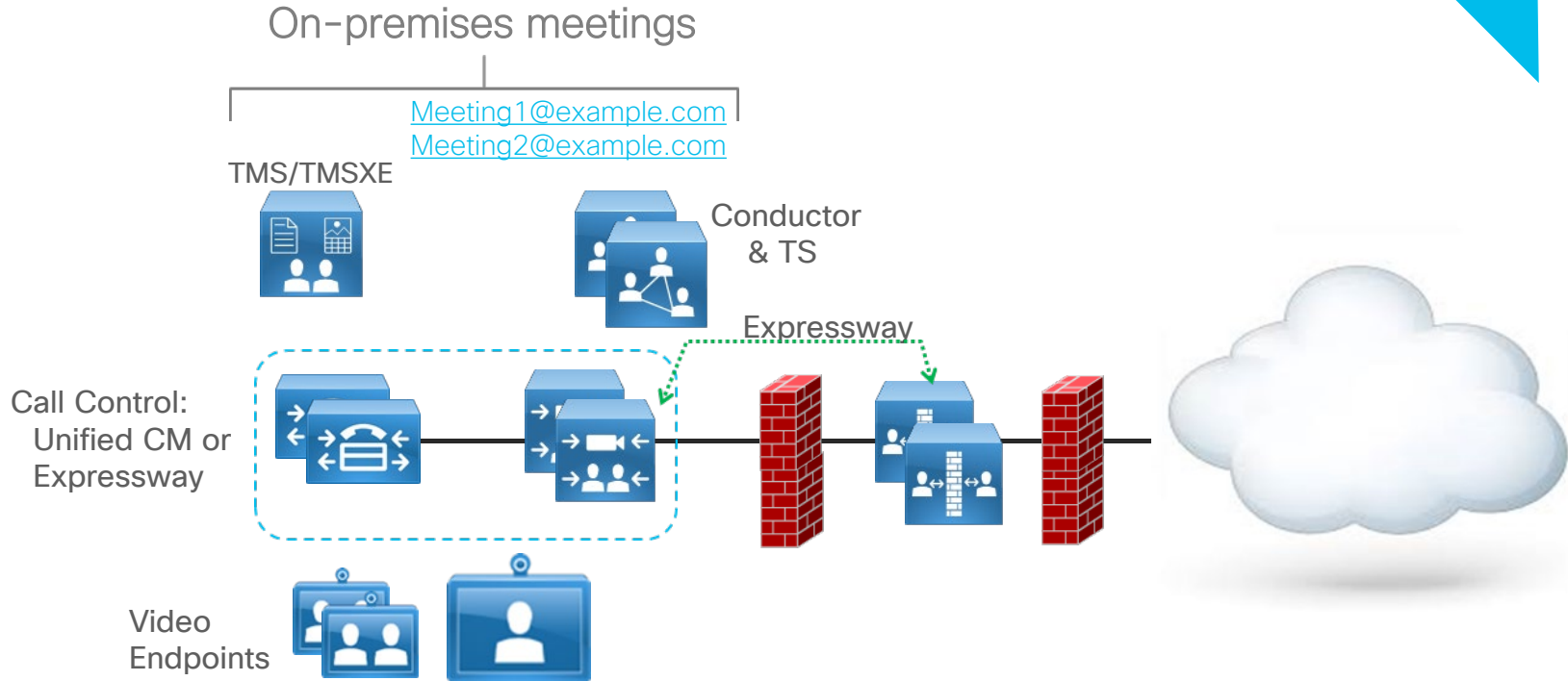


Webex Device Connector

<sup>1</sup> Maintain Conductor/TS if ad hoc conference escalations are required.

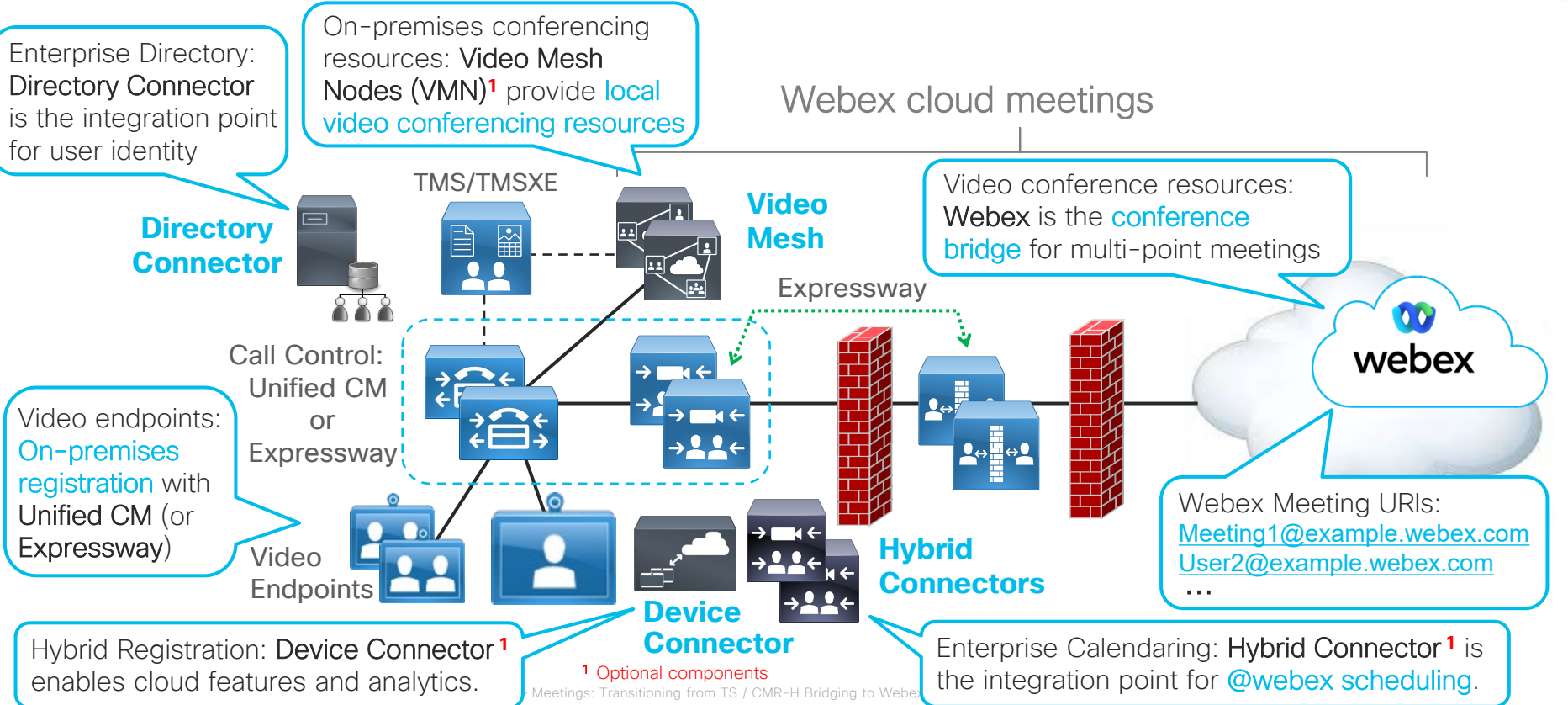
<sup>2</sup> As an alternative cloud Calendar Connector is available for cloud-based corporate calendar integrations (Google, O365)

# 0 Meetings: Transitioning On-Premises Bridging to Webex Before – On-Premises Meetings



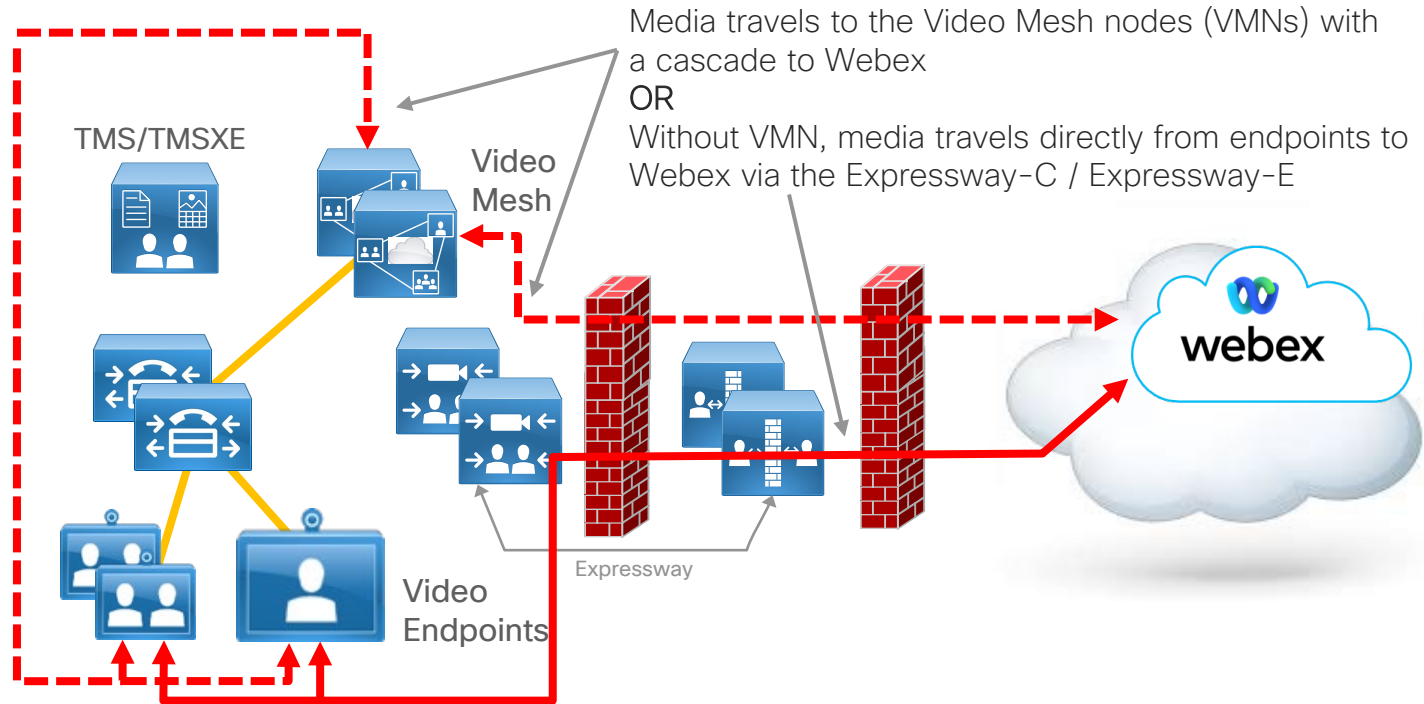


# 1 Meetings: Transitioning On-Premises Bridging to Webex After – Webex Cloud Meetings



# 1 Meetings: Transitioning On-Premises Bridging to Webex

## Webex Cloud Meetings Call Flow



Meeting URI:

[Meeting1@example.webex.com](mailto:Meeting1@example.webex.com)

Signaling ———

Media - - - - / - - - -



# Meetings: Transitioning On-Premises Bridging to Webex

## Webex Meetings Reduce Costs and Simplifies Support

- IT administrators struggle with deciding between building and managing a videoconferencing system or third-party management.
- Video conferencing deployments often introduce new technologies that many small and medium-sized businesses may not be familiar with (for example, H.323 and/or SIP).
- Using Webex cloud-based video conferencing saves companies time and money. Resources that would otherwise be expended to train IT teams to support new on-premises systems.
- Due to global reach, participants from anywhere can connect to meetings without costly on-premises bridging or WAN increases by using local Internet connections.
- Constant upgrades happen automatically in the cloud keeping customers up to date with the latest security fixes and features.



## Meetings: Transitioning On-Premises Bridging to Webex

# Why Move to Webex Meetings?

There are many other compelling reasons for transitioning from on-premises to cloud meetings:

- **Add web and audio-only** capabilities to your video meetings
- **Increased scale and global reach** for meetings
- **Ease of scheduling** with keywords (for example, @webex, using OBTP<sup>1</sup>)
- **Local optimization of media** with the Video Mesh
- **No change** to user join (Webex clients get upgraded to the new app, but can continue scheduling via the Outlook calendar)
- **No change** to endpoint administration and control

## What is Different When Moving to Webex Meetings?

The following tables highlight key technical considerations to be aware of when transitioning **from** the on-premises meetings deployment **to** the Webex Meetings deployment.

The considerations have been divided into the following categories:

- » Video Mesh
- » Meetings

# Meetings: Transitioning On-Premises Bridging to Webex

## Video Mesh Considerations (1 of 2)

Considerations for Video Mesh node deployment.

Category	Considerations
Video Mesh	<ul style="list-style-type: none"><li>• Video Mesh is designed to work with Webex Meetings cloud services and needs to be in constant communication with the cloud microservices for registration status, software updates, and logging, for example. This means that the Video Mesh needs direct connection to the Internet and does not use the firewall traversal mechanism of the VCS or Expressway solution.</li><li>• Video Mesh supports Cisco call control integration via a SIP trunk (port 5060 or 5061) or via an Expressway neighbor zone (port 5060).</li><li>• If the customer used the TS for an audio bridge, then the Video Mesh node does not support audio only meetings.</li><li>• Webex Meetings supports audio only meetings along with audio, video and content meetings. The users can reach the Webex Meeting service for audio connections using their infrastructure and the Internet with the new Webex Edge Audio offering or via PSTN. Webex Edge Audio, allows the customer to route the audio traffic over the Internet using their existing Unified CM and Expressway devices versus sending the audio via their PSTN trunks to Webex. More information on Webex Edge Audio can be found in the <a href="#">datasheet</a> and in the <a href="#">configuration guide</a>.</li></ul>

# Meetings: Transitioning On-Premises Bridging to Webex

## Video Mesh Considerations (2 of 2)

Considerations for Video Mesh node deployment.

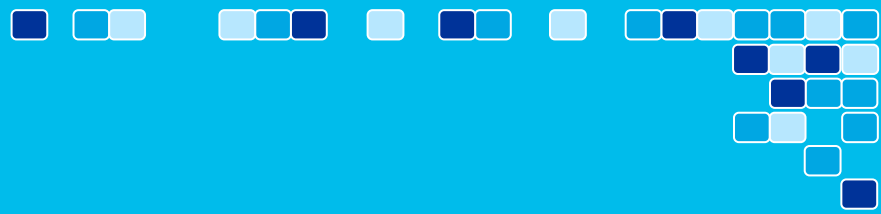
Category	Considerations
Video Mesh	<ul style="list-style-type: none"><li>• Video Mesh can utilize the direct peering connection within the <a href="#">Webex Edge Connect</a> solution for cascade media.</li><li>• Ad hoc escalation: If the customer presently can have a point-to-point video call escalated to a bridge when a third participant is joined by an existing participant, this capability is not available in the Video Mesh or Webex Meetings. For this process to work the MCU or TS is registered to the Unified CM as a media resource and invoked when the third person is added. The point-to-point call is moved automatically to the bridge because the other two endpoints do not have a software bridge capability. If this is a requirement, this functionality would require keeping the existing MCU or TS until that functionality is developed in the Webex Meetings architecture or until the user behavior is changed to meet on a Personal Room. Additionally, the MCU or TS could be transitioned to Cisco Meeting Server (CMS) to support this functionality on-premises.</li></ul>

# Meetings: Transitioning On-Premises Bridging to Webex Meeting Considerations

Considerations for meeting features and experience.

Category	Considerations
Meetings	<ul style="list-style-type: none"><li>• Webex Meetings supports a wide range of codecs for main video and content channel, but it does not support H.263 content being sent to the meeting. This will not affect many customers, but customers that have older video endpoints and need to be able share the content channel using the H.263 codec to other participants in the meeting will be unable to do so. All modern video endpoints support H.264 codecs for both main and content channels. It is recommended to upgrade the older endpoint or not use that video endpoint in the meeting for the content source.</li><li>• Webex Meetings does support H.323 and IP dialing for endpoints that are older or prefer to dial by IP addresses.</li></ul>





Collaboration Transitions

# Meetings: Transitioning On-Premises Bridging to Webex

## References

# Meetings: Transitioning On-Premises Bridging to Webex

## References (1 of 3)

### Licensing

- Cisco Collaboration Flex Plan:  
<https://www.cisco.com/c/en/us/products/unified-communications/collaboration-flex-plan/index.html>

### Hybrid Services

- Set up Hybrid Services:  
<https://collaborationhelp.cisco.com/tutorial/article/en-us/nkp3vu5>

### Webex Edge Video Mesh

- Webex Edge Video Mesh:  
<https://www.cisco.com/c/en/us/solutions/collaboration/webex-hybrid-services/webex-video-mesh.html>
- Deployment Guide for Webex Video Mesh:  
[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/cloud/Collaboration/wbxt/videomesh/cmgt\\_b\\_webex-video-mesh-deployment-guide/cmgt\\_b\\_hybrid-media-deployment-guide\\_chapter\\_01.html](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cloud/Collaboration/wbxt/videomesh/cmgt_b_webex-video-mesh-deployment-guide/cmgt_b_hybrid-media-deployment-guide_chapter_01.html)

- Cisco PA for the Webex Edge Video Mesh:  
<https://www.cisco.com/c/dam/en/us/td/docs/solutions/PA/WbxEdge/PAEdgeVMN.pdf>

### Call Control Integration

- Cisco Unified CM Configuration Guides:  
<https://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/products-installation-and-configuration-guides-list.html>
- Cisco Expressway Configuration Guides:  
<https://www.cisco.com/c/en/us/support/unified-communications/expressway-series/products-installation-and-configuration-guides-list.html>

### Directory Integration

- Webex Hybrid Directory Service  
<https://www.cisco.com/c/en/us/solutions/collaboration/webex-hybrid-services/directory-service.html>

# Meetings: Transitioning On-Premises Bridging to Cisco Webex

## References (2 of 3)

- Deployment Guide for Cisco Directory Connector:  
[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/cloudCollaboration/spark/hybridservices/directoryconnector/cmgt\\_b\\_directory-connector-guide-admins/cmgt\\_b\\_directory-connector-guide-admins\\_chapter\\_01001.html](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cloudCollaboration/spark/hybridservices/directoryconnector/cmgt_b_directory-connector-guide-admins/cmgt_b_directory-connector-guide-admins_chapter_01001.html)

### Users

- Getting Started with Cisco Webex Control Hub  
<https://help.webex.com/en-us/nkhoz6/Get-Started-with-Cisco-Webex-Control-Hub>
- Ways to Add Users to your Control Hub Organization  
<https://help.webex.com/en-us/nj34yk2/Ways-to-Add-Users-to-your-Control-Hub-Organization>

### Conductor / TS / TMS

- Cisco TelePresence Conductor Deployment Guide:  
[https://www.cisco.com/c/dam/en/us/td/docs/telepresence/infrastructure/conductor/config\\_guide/xc4-1\\_docs/TelePresence-Conductor-Unified-CM-Deployment-Guide-XC4-1.pdf](https://www.cisco.com/c/dam/en/us/td/docs/telepresence/infrastructure/conductor/config_guide/xc4-1_docs/TelePresence-Conductor-Unified-CM-Deployment-Guide-XC4-1.pdf)
- Cisco TelePresence Server Maintain and Operate Guides:  
<https://www.cisco.com/c/en/us/support/conferencing/telepresence-server/products-maintenance-guides-list.html>

- Cisco TelePresence Management Suite.  
<https://www.cisco.com/c/en/us/support/conferencing/telepresence-management-suite-tms/products-installation-and-configuration-guides-list.html>

### @webex Scheduling (Calendar Integration)

- Deployment Guide for Webex Hybrid Calendar Service:  
[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/cloudCollaboration/spark/hybridservices/calendarservice/cmgt\\_b\\_deploy-spark-hybrid-calendar-service/cmgt\\_b\\_deploy-spark-hybrid-calendar-service\\_preface\\_01.html](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cloudCollaboration/spark/hybridservices/calendarservice/cmgt_b_deploy-spark-hybrid-calendar-service/cmgt_b_deploy-spark-hybrid-calendar-service_preface_01.html)

### One Button to Push (OBTP)

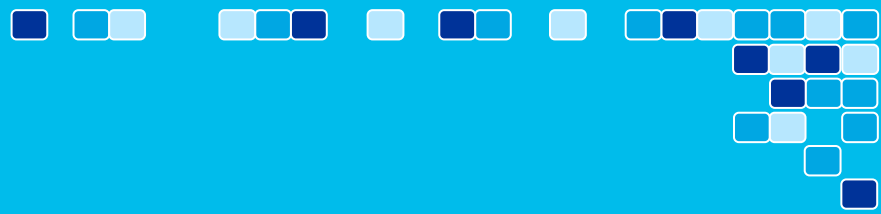
- Make it Easier for Video Devices to Join Meetings w/ OBTP: <https://help.webex.com/en-us/nvibg1k/>

# Meetings: Transitioning On-Premises Bridging to Cisco Webex References (3 of 3)

## Meetings Transition Deployment Guide

- Transitioning On-Premises Bridging to Cisco Webex Deployment Guide:

[https://www.cisco.com/c/dam/en/us/td/docs/solutions/PA/mcp/DEPLOYMENT\\_MEETINGS-Premises\\_Bridging\\_to\\_Webex.pdf](https://www.cisco.com/c/dam/en/us/td/docs/solutions/PA/mcp/DEPLOYMENT_MEETINGS-Premises_Bridging_to_Webex.pdf)



Collaboration Transitions

Meetings: Transitioning On-Premises  
Bridging to Webex

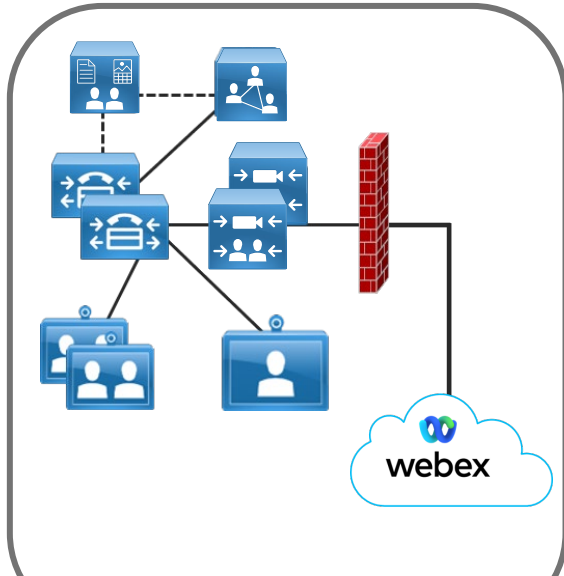
Alternate Transition: CMR-H  
to Webex

# Meetings: Transitioning On-Premises Bridging to Webex

## Alternate Transition: CMR-H to Webex

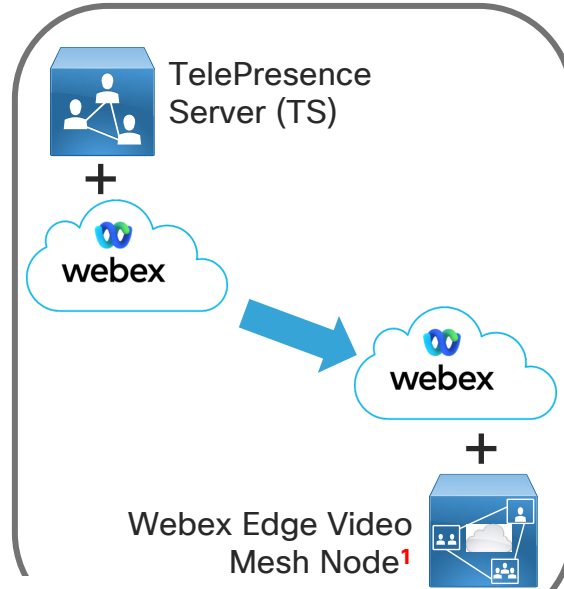
0

### Cisco Video Deployment



1

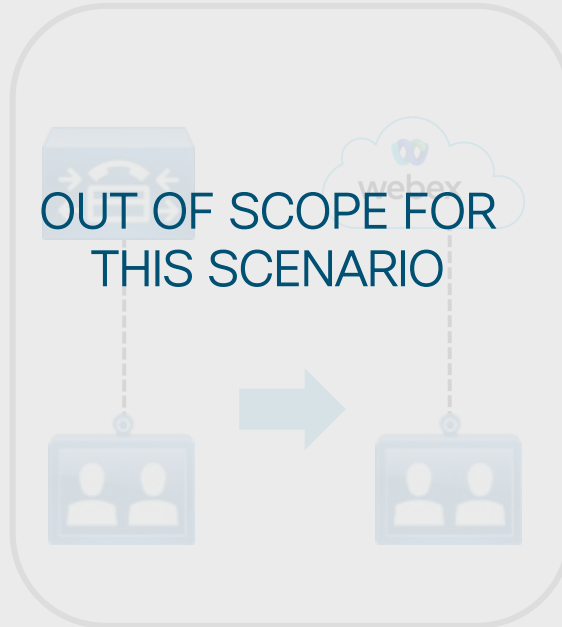
### Webex Cloud Meetings



### SCENARIO FOCUS

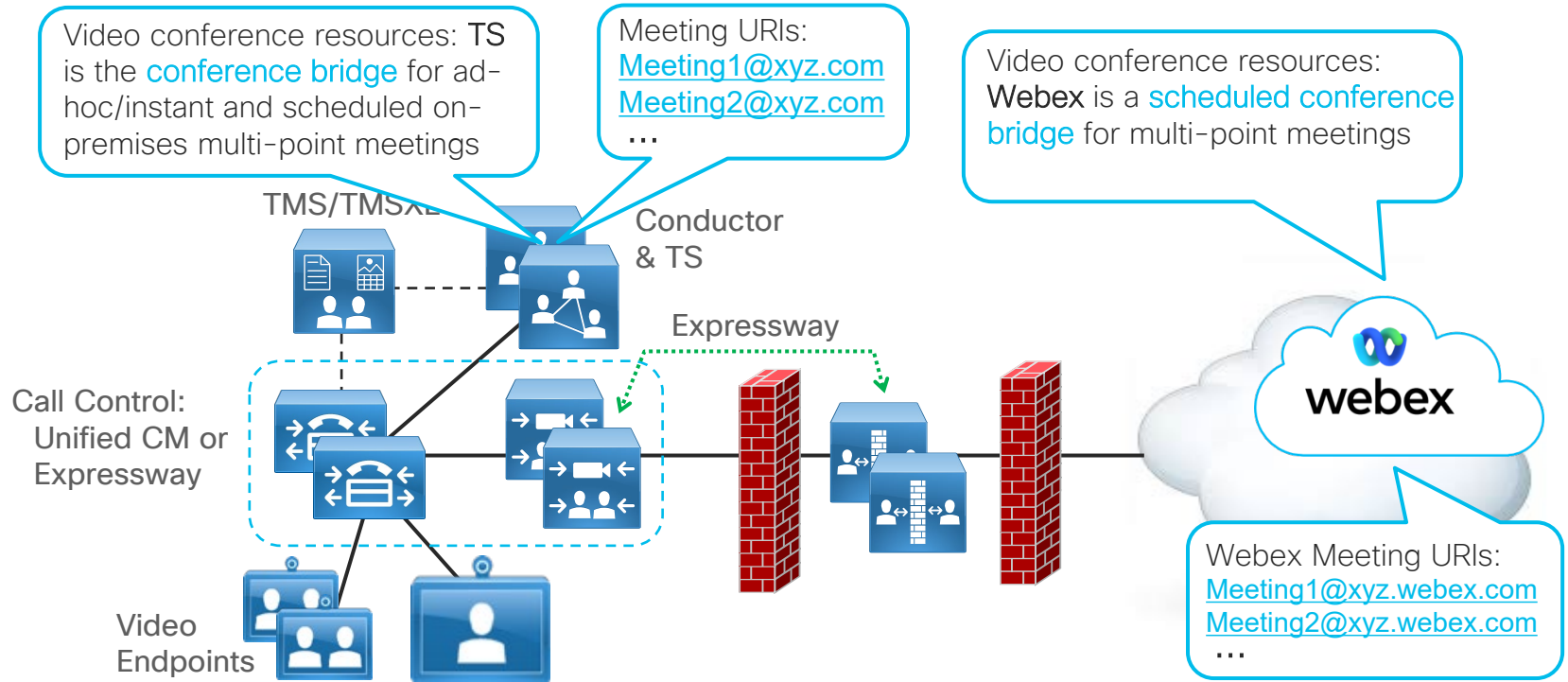
2

### Cloud Registered Endpoints

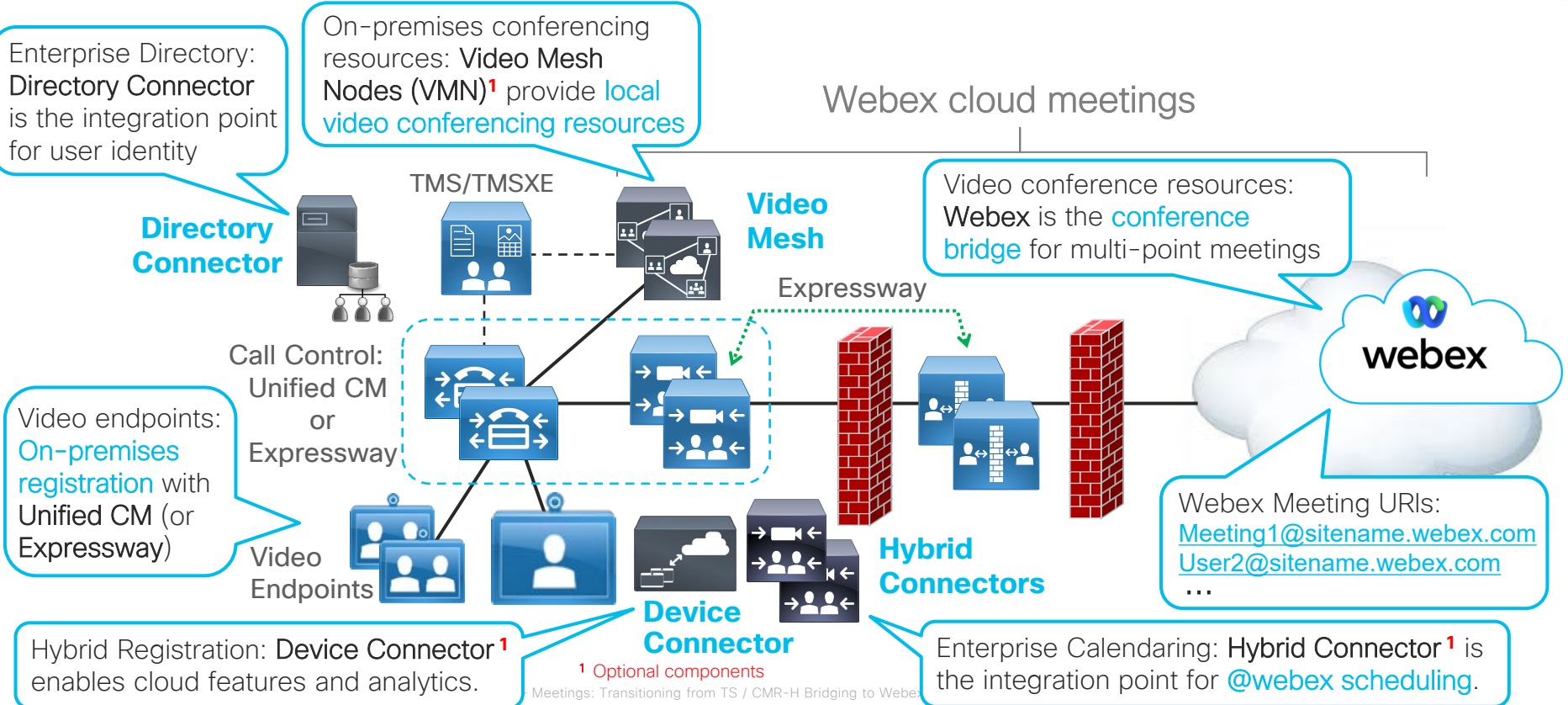


Note: This map is a visual representation of the workload transition(s), highlighting the primary architectural changes during the deployment.

# 0 Meetings: Transitioning On-Premises Bridging to Webex Before – CMR Hybrid



# 1 Meetings: Transitioning On-Premises Bridging to Webex After – Webex Cloud Meetings







# Meetings: Transitioning On-Premises Bridging to Webex

## References: CMR-H to Webex

### Webex Personal Rooms

- Manage Webex Personal Rooms  
<https://help.webex.com/en-us/nk4o0ym/Manage-Personal-Rooms-for-a-Cisco-Webex-Site-in-Cisco-Webex-Control-Hub>
- Webex Personal Rooms in Webex Meetings:  
<https://help.webex.com/en-us/nul0wut/Cisco-Webex-Personal-Rooms-in-Cisco-Webex-Meetings>

### Meetings Transition Deployment Guide

- Transitioning On-Premises Bridging to Webex Deployment Guide:  
[https://www.cisco.com/c/dam/en/us/td/docs/solutions/PA/mcp/DEPLOYMENT\\_MEETINGS-Premises\\_Bridging\\_to\\_Webex.pdf](https://www.cisco.com/c/dam/en/us/td/docs/solutions/PA/mcp/DEPLOYMENT_MEETINGS-Premises_Bridging_to_Webex.pdf)



---

© 2021 Cisco and/or its affiliates. All rights reserved. Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third-party trademarks mentioned are the property of their respective owners

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.