



Preface

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This preface describes the purpose, audience, organization, and conventions of the Cisco WebEx Enabled TelePresence Configuration Guide and provides information about new features and how to obtain related documentation.

This preface describes the following topics:

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General Description

This document describes how to configure Cisco TelePresence applications for Cisco WebEx-to-Cisco Telepresence interoperability. The Cisco WebEx Enabled TelePresence Configuration Guide describes how to manage and monitor scheduled meeting interoperability between Cisco TelePresence System (CTS), Cisco TelePresence Server or MCU multipoint meetings, Cisco TMS, Cisco Unified Communications Manager (Cisco Unified CM), Cisco Video Communication Server (VCS) and the Cisco WebEx Meeting Center.

Audience and Scope

The *Cisco WebEx Enabled TelePresence Configuration Guide* is directed to administrators who will be configuring the TelePresence Server, MCU, Cisco TMS, Cisco VCS and/or the Cisco Unified CM to use Cisco WebEx features in Cisco TelePresence meetings.

Cisco WebEx Features and Important Notes

This section contains the following feature information:

- [Supported Features, page ii](#)
- [Feature Limitations, page iii](#)

Supported Features

Cisco WebEx Enabled TelePresence provides the following key features:

- Two-way video sharing with up to 720p screen resolution between the WebEx client and TelePresence endpoints
- Integrated audio and presentation sharing — including application and desktop content sharing capability for all users in a meeting
- Integrated meeting scheduling using TelePresence Management Suite (Cisco TMS), which allows you to easily schedule Cisco WebEx Enabled TelePresence meetings
- Secure call control and connectivity enabled by media encryption provided by Cisco VCS Expressway
- Interoperability with third-party telepresence endpoints

Table 1 lists Cisco WebEx Enabled TelePresence features.

Table 1 *Cisco WebEx Enabled TelePresence Features*

Supported Feature	Description
Audio	<p>CTS participants have two-way audio with the Cisco WebEx meeting participants using G.711.</p> <p>Note No presentation audio is sent from the Cisco WebEx side.</p>
Host	<p>All Cisco TelePresence participants and the meeting organizer can be the default hosts. The MCU/TelePresence Server dials in at the meeting start time automatically to connect all TelePresence participants. The MCU/TelePresence Server becomes the host if the meeting organizer has not joined on WebEx yet. If the meeting organizer joins the meeting before the scheduled start time, they become the host.</p>

Table 1 **Cisco WebEx Enabled TelePresence Features**

Supported Feature	Description
Scheduling	<p>Use Cisco TMS, the WebEx and TelePresence Integration to Outlook, Smart Scheduler, or WebEx Scheduling Mailbox to schedule a Cisco TelePresence meeting with WebEx. Start your meeting either using One-Button-to-Push (OBTP) from scheduled Cisco TelePresence endpoints or using the Automatic Connect feature of Cisco TMS to connect all scheduled endpoints at the start time of your meeting.</p> <p>You can start the WebEx portion of a Cisco WebEx Enabled TelePresence meeting earlier than the scheduled time if you are the WebEx host. WebEx participants who try to join the WebEx meeting before the host, receive a message that the meeting has not started and they must wait to join until the scheduled start time or until after the WebEx host joins.</p> <p>Note Only scheduled meetings are supported for Cisco WebEx Enabled TelePresence Interoperability; non-scheduled TelePresence participants who want to join a Cisco WebEx enabled TelePresence meeting, must manually dial into the conference (MCU/TelePresence Server) bridge. The meeting organizer can reserve ports for video dial-in participants when scheduling the meeting.</p> <p>See the Cisco TelePresence Management Suite Administrator Guide for meeting scheduling information.</p>
Sharing	<p>Cisco TelePresence users can share a presentation by connecting the video display cable of the TelePresence endpoint to their computer. Supported video display interfaces include VGA, DVI, HDMI, DisplayPort and Mini DisplayPort.</p> <p>Cisco WebEx Meeting Center clients can share the desktop or a selected application. Endpoints view and share Cisco WebEx presentation at 1024 x 768 (XGA) resolution.</p> <p>The resolution that endpoints are capable of sending may vary depending on the endpoint model, but the TelePresence Server/MCU will transcode the presentation and send it to the WebEx cloud at 1024x768 resolution.</p> <p>Note The Cisco TelePresence user that is sharing with the video display cable must exit the Cisco WebEx Meeting Center client on their laptop before connecting the video display cable. If they do not,</p>
Two-way Video	<p>Video quality is sent best effort from the Cisco TelePresence endpoint to Cisco WebEx and from Cisco WebEx to the Cisco TelePresence endpoint.</p> <p>The video from the CTS participants in the meeting are forwarded to the Cisco WebEx network, where they will be seen by Cisco WebEx participants along with other Cisco WebEx participants. Live video can be sent at minimum in Common Intermediate Format (CIF) format at 30 frames per second, at approximately 300-450 kbps up to a maximum of 720p.</p> <p>Presentations from the Cisco WebEx client are displayed on the local CTS projector, presentation display or with Presentation-in-Picture (PiP), depending on the capabilities of your CTS.</p> <p>Note All Cisco WebEx-enabled TelePresence meetings require the use of a Cisco TelePresence Server or MCU.</p>

Feature Limitations

For a complete list of limitations and known issues for Cisco WebEx Enabled TelePresence, refer to the Cisco WebEx Enabled TelePresence release notes.

Prerequisites

Table 2 lists Cisco WebEx Enabled TelePresence feature prerequisites.

Table 2 *Cisco WebEx with the Cisco TelePresence System Prerequisites*

Requirement	Description
Cisco TelePresence Management Suite (Cisco TMS)	Cisco TMS is required for scheduling Cisco WebEx Enabled TelePresence meetings. Release 14.3.1 or later is required. (Release 14.3 or later is also required for support of TSP audio with Cisco TelePresence Server.)
Cisco TelePresence Management Suite Extension for Microsoft Exchange (Cisco TMSXE)	Cisco TMSXE is required for scheduling Cisco WebEx Enabled TelePresence meetings through Microsoft Outlook using either the WebEx Productivity Tools Plug-in or WebEx Scheduling Mailbox Scheduling. Release 3.1 or later is required.
Cisco TelePresence Management Suite Provisioning Extension (Cisco TMSPE)	Cisco TMSPE is required for scheduling Cisco WebEx Enabled TelePresence meetings using Smart Scheduler. Release 1.1 or later is required. Note Use of Smart Scheduler does not require the TMS provisioning option key.
Cisco TelePresence Video Communication Server (VCS)	VCS Control and Expressway are a required as the call control solution. Release X7.2.2 or later is required.
Cisco Unified Communications Manager (Unified CM)	Unified CM is an optional call control solution that can be used with VCS for deployments with endpoints registered to Unified CM. Release 8.6.2 or higher is required. 9.1.1 is recommended.
Cisco TelePresence Server	TelePresence Server can be used as a conference bridge for Cisco WebEx Enabled TelePresence meetings. Release 3.0 or later is required. Release 3.1 or later with a Third-Party Interop key is required for support of TSP audio.
Cisco TelePresence MCU	Cisco TelePresence MCU can be used as a conference bridge for Cisco WebEx Enabled TelePresence meetings. Release 4.4 or later is required.
Provisioning—Cisco TelePresence with Cisco WebEx.	<ol style="list-style-type: none"> 1. The Cisco WebEx Meeting Center site must be running release T28.10 or higher with the latest service pack. 2. The Cisco WebEx site must be configured to support Cisco TelePresence Integration. See Chapter 10, “Integrating Cisco TelePresence with Your Cisco WebEx Site Administration Account” for more information.
Supported Endpoints	Any endpoint supported by TelePresence Server or MCU can join a Cisco WebEx Enabled TelePresence meeting.

Table 2 *Cisco WebEx with the Cisco TelePresence System Prerequisites*

Requirement	Description
Account Validation—Meeting scheduler's Cisco WebEx account.	<p>Each user who is scheduling Cisco WebEx Enabled TelePresence meetings in Cisco TMS, must have a host account on the WebEx site.</p> <ol style="list-style-type: none"> 1. The WebEx account username and password must be added into to each meeting scheduler's user profile in Cisco TMS, along with the WebEx site they will use for scheduling. 2. Cisco TMS validates authorized Cisco WebEx account holders. <p>Note WebEx password is not required if Single-Sign-On (SSO) is configured in TMS. See Chapter 6, “Configuring Cisco TelePresence Management Suite” for more information.</p>
Bandwidth and CPU power—Recommendation for good video quality and integrating the Cisco TelePresence network with Cisco WebEx.	<p>Network bandwidth should be at least 1.1 Mbps upstream between the MCU/TelePresence Server and WebEx. For example, if you are anticipating 5 simultaneous Cisco WebEx calls, you will need to have five 1.1 Mbps bandwidth instances.</p> <p>Suggested CPU power (depends on running applications) is dual core CPU, 2.5 GHz memory running at least 2G.</p>
Cisco WebEx Client Resource Requirements—Expected resource allocation per meeting.	For detailed requirements, refer to the Cisco WebEx Enabled TelePresence release notes .

Document Organization

Information about configuring and using the Cisco WebEx Enabled TelePresence is provided in the following chapters:

- [Chapter 1, “Information About the Cisco WebEx Enabled TelePresence Feature”](#)
- [Chapter 2, “First-Time Configuration Checklist”](#)
- [Chapter 3, “Configuring Cisco MCU and TelePresence Server”](#)
- [Chapter 4, “Configuring Call Control”](#)
- [Chapter 5, “Configuring Certificates on Cisco VCS Expressway”](#)
- [Chapter 6, “Configuring Cisco TelePresence Management Suite”](#)
- [Chapter 7, “Configuring Cisco TelePresence Management Suite Extension for Microsoft Exchange”](#)
- [Chapter 8, “Configuring Cisco TelePresence Management Suite Provisioning Extension”](#)
- [Chapter 9, “Configuring Audio”](#)
- [Chapter 10, “Integrating Cisco TelePresence with Your Cisco WebEx Site Administration Account”](#)
- [Chapter 11, “Scheduling Cisco WebEx Enabled TelePresence Meetings”](#)
- [Chapter 12, “Troubleshooting”](#)

Related Documents

Related Topic	Document Link
Cisco TelePresence Documentation	
Cisco TelePresence Management Suite	<ul style="list-style-type: none"> • Cisco TelePresence Management Suite
Cisco TelePresence Video Communication Server (VCS)	<ul style="list-style-type: none"> • Cisco TelePresence Video Communication Server
Cisco Unified Communications Manager (Unified CM)	<ul style="list-style-type: none"> • Cisco Unified Communications Manager
Cisco TelePresence Server	<ul style="list-style-type: none"> • Cisco TelePresence Server
Cisco TelePresence MCU	<ul style="list-style-type: none"> • MCU 5300 Series • MCU 4501 Series • MCU 4500 Series • MCU 4200 Series • MCU MSE Series
Cisco WebEx Documentation	
Information about how to use Cisco WebEx meeting features.	<ul style="list-style-type: none"> • Go to your Cisco WebEx site home page. • Log into your Cisco WebEx Meeting Center account and click on Support > User Guides in the left navigation pane.
Specifying Cisco TelePresence Integration options and managing your Cisco WebEx Site.	<ul style="list-style-type: none"> • Refer to Integrating Cisco TelePresence with Your Cisco WebEx Site Administration Account.
Cisco WebEx Enabled TelePresence Documentation	
Information for meeting organizers on how to schedule WebEx Enabled TelePresence meetings	<ul style="list-style-type: none"> • http://www.cisco.com/en/US/products/ps11338/products_user_guide_list.html

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at the following URL:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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