

# Centralized Management and Scheduling of Your Cisco TelePresence Network

## Product Overview

Telepresence conferences are most effective – and most often attended – when they can be set up easily. With Cisco TelePresence® Management Suite (TMS), you don't need to be concerned with the equipment being used or where people are located. To schedule a meeting, you tell Cisco TMS which rooms you want to use and how many people will be joining the meeting. Cisco TMS will automatically book the conference rooms and necessary ports for your conference.

To help invite participants, Cisco TMS integrates and searches directories and external information sources. It also integrates with Microsoft Exchange with Outlook clients so users can book Cisco video meetings using existing workflows. As a self-service solution, Cisco TMS helps lower your video conferencing costs and increase user satisfaction.

## Schedule, Control, and Manage Your Cisco TelePresence Conferences

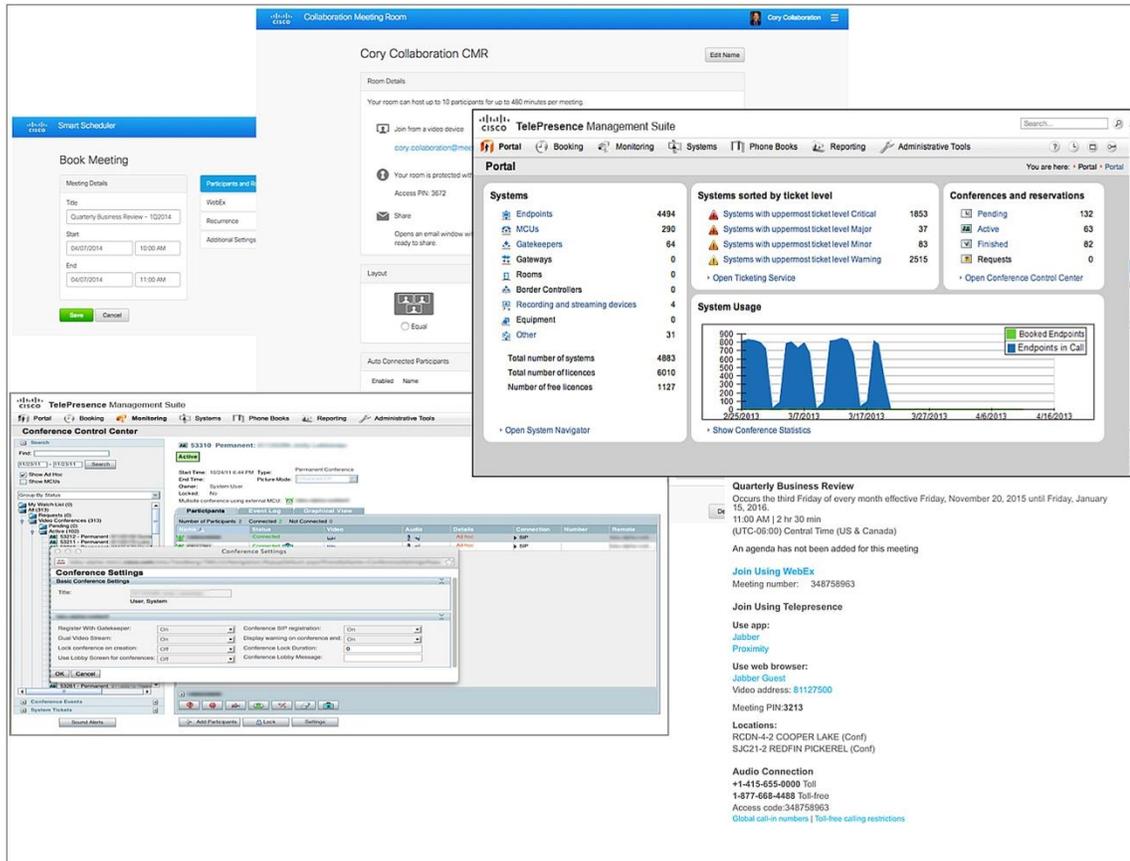
Cisco TMS provides scheduling, control, and management of Cisco TelePresence conferencing and media services infrastructure plus endpoints, enabling you to improve productivity, reduce costs, and increase return on your Cisco TelePresence investments (Figure 1).

**Figure 1.** Cisco TelePresence Management Suite



Cisco TMS simplifies network administration through powerful scheduling, configuration, and provisioning capabilities, making Cisco TMS vital to any Cisco TelePresence deployment (Figure 2).

**Figure 2.** Cisco TelePresence Management Suite Applications



## Features and Benefits

Benefits of Cisco TMS include:

- **Scalable provisioning:** Cisco TMS offers rapid, large-scale deployments of up to 100,000 Cisco TelePresence users, endpoints, and soft clients across disparate customer locations, including up to 5,000 direct-managed endpoint and infrastructure devices.
- **Centralized administration:** Cisco TMS automates and simplifies the management of Cisco TelePresence meetings and Cisco Telepresence infrastructure resources, reducing your total cost of ownership (TCO).
- **Flexible scheduling:** Cisco TMS makes scheduling Cisco TelePresence meetings more accessible with a range of tools including a simple and intuitive web Smart Scheduler, Microsoft Exchange and Outlook integration, and advanced booking capabilities for experienced concierge administrators.
- **Natural user experience:** Cisco TMS reduces complexity and makes it easy for users to start and join meetings on time with One Button to Push (OBTP) for select Cisco TelePresence systems and intuitive how-to-join instructions for other participants, including one-click-to-join for people joining with Cisco® Meeting App or with Cisco WebEx® if using Cisco Collaboration Meeting Rooms (CMR) Hybrid.

Features of Cisco TMS include:

- Centralized management of all conferences, impromptu and scheduled, in real time
- Flexible scheduling tools designed to meet the needs of basic users for quick conference creation, including integration with Microsoft Exchange for scheduling through Outlook clients and advanced conference booking options for sophisticated users
- One-Button-to-Push (OBTP) to make it easy to join a meeting when scheduling resources on premises with Cisco Meeting Server and Cisco TelePresence Server or with Cisco WebEx Video (Cloud CMR) meetings
- Scheduling and OBTP with the Microsoft Skype for Business Outlook add-in using Cisco Meeting Server
- Robust and flexible phone book management that supports synchronization with a wide range of directories, including external sources for easy contact management

Table 1 lists additional features and benefits of Cisco TMS.

**Table 1.** Features and Benefits

Product Feature	Benefits
<b>Configuration Management</b>	
<b>Provisioning and device management</b>	<ul style="list-style-type: none"> <li>• Cisco TMS supports up to 5,000 direct-managed devices featuring distributed and redundant architecture.</li> <li>• Cisco TMS supports up to 100,000 Cisco Telepresence users, endpoints, and soft clients across disparate customer locations with the Cisco TelePresence Video Communication Server (VCS) clustering technology.</li> <li>• Cisco TMS Provisioning Extension (Cisco TMSPE) supports provisioning and management of a variety of Cisco TelePresence Systems.</li> </ul>
<b>Account management, security, and permissions</b>	<ul style="list-style-type: none"> <li>• Microsoft Active Directory integration allows the use of enterprise logins.</li> <li>• Synchronization with the enterprise directory provides for automatic user account creation and maintenance.</li> <li>• User groups for controlling permissions are customizable.</li> <li>• Cisco TMS supports automatic group membership using Microsoft Active Directory.</li> </ul>
<b>Directory Management</b>	
<b>Phone book and sources</b>	<ul style="list-style-type: none"> <li>• Cisco TMS provides centralized phone book and directory services for Cisco and select third-party H.323 and Session Initiation Protocol (SIP) endpoints.</li> <li>• Import of directory records and synchronization with many data sources, including Cisco Unified Communications Manager, Microsoft Active Directory, H.350 Lightweight Directory Access Protocol (LDAP), gatekeepers, and file-based imports is automatic.</li> <li>• Cisco TMS offers hierarchical phone book structures, enabling easy browsing of contacts on the endpoint user interface.</li> </ul>
<b>Conference Management</b>	
<b>Conference Control Center</b>	<ul style="list-style-type: none"> <li>• Conference Control Center manages scheduled and unscheduled conference activity for point-to-point, multipoint control unit (MCU)-hosted, and Cisco TelePresence Server hosted conferences.</li> <li>• Conference Control Center monitors conference events for connectivity status, alarms, and changes.</li> <li>• Conference Control Center is not available with Cisco Meeting Server.</li> </ul>
<b>Diagnostics and alarms</b>	<ul style="list-style-type: none"> <li>• Intelligent diagnostics interrogate the configurations and status of managed devices, reporting errors.</li> </ul>
<b>Ticketing service</b>	<ul style="list-style-type: none"> <li>• Cisco TMS ticketing service provides a centralized view of status and configuration errors for direct-managed devices.</li> <li>• Cisco TMS offers proactive suggestions for resolving error conditions.</li> </ul>
<b>Event notification</b>	<ul style="list-style-type: none"> <li>• Cisco TMS provides email notification of select system events on a per-event, per-device, and per-user basis.</li> </ul>
<b>Booking and Scheduling</b>	
<b>Scheduling Cisco TMS Extension products</b>	<ul style="list-style-type: none"> <li>• Cisco TMS Smart Scheduler interface, included with Cisco TMS Provisioning Extension (Cisco TMSPE), allows simple, intuitive booking of single-instance and recurrent Cisco video meetings.</li> <li>• Cisco TMS supports Microsoft Exchange Server 2007, 2010, 2013, 2016, and Office 365 calendar integration through the Cisco TelePresence Management Suite Extension for Microsoft Exchange (Cisco TMSXE).</li> <li>• Cisco TMS supports OBTP for Cisco WebEx video integration (CMR Cloud) using Hybrid Calendar Connector or Cisco WebEx Productivity Tool scheduling.</li> </ul>

Product Feature	Benefits
	<ul style="list-style-type: none"> <li>• Cisco TMS offers scheduling with IBM Lotus Domino Server calendar integration through a Cisco SolutionsPlus Program partner. Please refer to Cisco Marketplace Solutions Catalog: <a href="https://marketplace.cisco.com/catalog">https://marketplace.cisco.com/catalog</a>.</li> <li>• Custom-built scheduling interfaces for other calendaring products are supported through the Cisco TelePresence Management Suite Extension Booking API (Cisco TMSBA).</li> </ul>
<b>Support for advanced Cisco Telepresence scheduling features</b>	<ul style="list-style-type: none"> <li>• Scheduling with Cisco Meeting Server, Cisco TelePresence Server, Cisco TelePresence Conductor, and Cisco TelePresence MCUs.</li> <li>• Scheduling and automation of point-to-point meetings using embedded Cisco TelePresence MultiSite capability of select Cisco TelePresence endpoints.</li> <li>• Essential scheduling of third-party, unmanaged bridges with OBTP, including formal Acano 1.x product.</li> <li>• Variable-length PIN access controls on Cisco TelePresence Servers and Cisco TelePresence MCUs, and participant access codes for CMR Hybrid are supported to secure meetings.</li> <li>• Scheduling for both Cisco TelePresence and Cisco WebEx meetings with CMR Hybrid, enabling organizations to extend their meetings.</li> <li>• Cisco TMS allows participants to join scheduled meetings 5 minutes early and to automatically extend meetings when resources are available. Where meeting extension is not possible, Cisco TMS will display meeting notifications to participants.</li> </ul>
<b>Booking confirmation emails</b>	<ul style="list-style-type: none"> <li>• Customizable booking confirmations are automatically sent by email to the organizer with clear, simple joining instructions and clickable links for participants to join using Cisco Jabber®, Cisco Meeting App (including WebRTC-enabled browsers), Cisco WebEx, and audio-only phones.</li> </ul>
<b>Resource allocation</b>	<ul style="list-style-type: none"> <li>• Scheduling is provided across heterogeneous networks with mixed vendors and mixed protocols (H.323, H.320, SIP, and telephone).</li> <li>• Cisco TMS intelligently manages dial-plan and infrastructure resources to facilitate conference automation.</li> </ul>
<b>Infrastructure Management</b>	
<b>Asset management</b>	<ul style="list-style-type: none"> <li>• Cisco TMS has a single management console for all Cisco and select third-party telepresence devices, including endpoints, call-control servers, Cisco TelePresence Servers, Conductor, Cisco TelePresence MCUs, and other infrastructure.</li> <li>• Communications for all Cisco applications are secured using Secure HTTP (HTTPS) using X.509 certificate validation (user, device and server).</li> </ul>
<b>Configuration backup and restore</b>	<ul style="list-style-type: none"> <li>• With Cisco TMS you can retrieve and back up configurations of supported endpoints and devices.</li> <li>• You can compare current and previous device configurations.</li> <li>• Cisco TMS supports single or bulk restoration of saved configurations to supported endpoints and devices.</li> </ul>
<b>Software upgrades</b>	<ul style="list-style-type: none"> <li>• Automated software upgrade helps ensure the latest software updates and release key retrieval for supported endpoints and devices with minimal administrative intervention.</li> <li>• Cisco TMS offers an administrator-defined schedule for bulk software upgrades of supported systems.</li> </ul>
<b>Customized Reporting and Analysis</b>	
<b>Auditing</b>	<ul style="list-style-type: none"> <li>• Integrated application audit logging to monitor system changes is supported.</li> </ul>
<b>Standard reports</b>	<ul style="list-style-type: none"> <li>• Asset management reports include ticket logs, device events, device alarms, and connectivity diagnostics.</li> <li>• Call-history reports for managed endpoints and infrastructure are provided.</li> <li>• Scheduling activity reports include user-based scheduling, interface used, conference event logs, and conference reports. (Not available with Cisco Meeting Server.)</li> </ul>

## Product Specifications

Table 2 lists platform and language specifications of Cisco TMS.

**Table 2.** Platform and Language Specifications

Platform	
<b>Application</b>	<ul style="list-style-type: none"> <li>• Cisco TMS is provided as software for installation on a customer-provided Microsoft Windows Server (Cisco recommends Cisco Unified Computing System™ [Cisco UCS®] servers).</li> <li>• The Cisco TMS user interface is a web browser-based application that uses Microsoft Internet Information Services (IIS) and the Microsoft .NET framework.</li> </ul>
<b>Database server flexibility and resilience</b>	<ul style="list-style-type: none"> <li>• Cisco TMS uses a local SQL Express database server, or an external standalone Microsoft SQL Server, or Microsoft SQL Server clustering. Optional dual application servers can provide high availability.</li> </ul>

Localization and Internationalization Support	
<b>Character set support</b>	<ul style="list-style-type: none"> <li>• Cisco TMS offers international name support (UTF-8) for direct-managed and provisioned endpoints, devices, phone books, and phone book sources.</li> </ul>
<b>Language support for primary admin Cisco TMS interface</b>	<ul style="list-style-type: none"> <li>• English</li> <li>• French</li> <li>• German</li> <li>• Russian</li> <li>• Japanese</li> <li>• Chinese (Simplified)</li> <li>• Korean</li> </ul>
<b>Language support for booking confirmation email templates</b>	<ul style="list-style-type: none"> <li>• English</li> <li>• French</li> <li>• German</li> <li>• Russian</li> <li>• Japanese</li> <li>• Chinese (Simplified and Traditional)</li> <li>• Korean</li> <li>• Arabic</li> <li>• Catalan</li> <li>• Czech</li> <li>• Danish</li> <li>• Dutch</li> <li>• Finnish</li> <li>• Italian</li> <li>• Norwegian (Bokmal)</li> <li>• Polish</li> <li>• Portuguese (Portugal and Brazil)</li> <li>• Spanish (Spain and Latin America)</li> <li>• Swedish</li> <li>• Thai</li> <li>• Turkish</li> </ul>

## System Requirements

Table 3 lists system requirements for Cisco TMS.

**Table 3.** System Requirements for Cisco TelePresence Management Suite

Cisco TelePresence Management Suite	
<b>Product specifications</b>	<ul style="list-style-type: none"> <li>• Each endpoint, bridge, or other managed device requires a device license. The base software product includes a license for up to 10 direct-managed devices. Extend by purchasing additional device licenses (Table 4) up to 5,000 direct-managed devices.</li> <li>• Cisco TMS Provisioning Extension supports up to 100,000 users with CMR Provisioning with Cisco TelePresence Conductor. (TMS base license only required.) Base product functions may be extended through feature licenses or accessory products:</li> <li>• Cisco TelePresence Management Suite Provisioning Extension (TMSPE)</li> <li>• Cisco TelePresence Management Suite Extension for Microsoft Exchange (TMSXE)</li> <li>• Cisco TelePresence Management Suite Extension Booking API (TMSBA)</li> <li>• Cisco TelePresence Management Suite Unmanaged Bridge Network Integration Extension (NETINT)</li> <li>• Cisco TelePresence Management Suite Application Integration Extension (APPINT)</li> </ul>
<b>Scheduling CMR Hybrid</b>	<ul style="list-style-type: none"> <li>• For guidance on scheduling Cisco WebEx and Cisco TelePresence systems together, refer to the <a href="#">Cisco TMS Configuration Guides</a>.</li> </ul>
<b>Application server requirements</b>	<ul style="list-style-type: none"> <li>• Microsoft Windows Server 2012 R1 and R2, Windows Server 2008 SP2 or later (64 bit), or Windows Server 2008 R2 Standard 64-bit.</li> <li>• Minimum dual-core 2.6-GHz processor (Intel or equivalent) recommended.</li> <li>• Minimum 4 GB of RAM.</li> <li>• Minimum 10 GB of disk space for application installation.</li> <li>• Microsoft .NET Framework Full Version 4.5.0 or higher.</li> <li>• VMware EXSI 6.0 is optional.</li> </ul>

Cisco TelePresence Management Suite	
<b>Microsoft SQL Server and .NET requirements</b>	<ul style="list-style-type: none"> <li>• One of the following is required:</li> <li>• Microsoft SQL Server 2014 (all versions, 32- or 64-bit)</li> <li>• Microsoft SQL Server 2012 (all versions, 32- or 64-bit)</li> <li>• Microsoft SQL Server 2008 R2 (all versions, 32- or 64-bit)</li> <li>• Microsoft SQL Server 2008 (all versions, 32- or 64-bit)</li> <li>• If an external SQL database is not available when installing Cisco TMS, you must install provided Microsoft SQL Server Express (2008 or 2012). Note that all Express editions of Microsoft SQL Server have certain technical restrictions.</li> <li>• Large deployments with over 200 controlled endpoints and devices and more than 100 concurrent users must use SQL on external server(s). We recommend using Microsoft SQL Server 2014 or later for new installations.</li> </ul>
<b>Client user requirements</b>	<ul style="list-style-type: none"> <li>• Cisco TMS is tested with:</li> <li>• Microsoft Internet Explorer Versions 9 and 10</li> <li>• Firefox Versions 21 or higher</li> <li>• Java Runtime Environment (JRE) required for Conference Control Center with limited browser support.</li> </ul>

## Ordering Information

For ordering information, refer to the [Cisco Ordering homepage](#) and Tables 4 and 5.

**Table 4.** Initial Ordering Options for the Cisco TelePresence Management Suite

Product Name	Part Number
<b>Cisco TelePresence Management Suite (TMS) included with Cisco UWL Meetings and Personal Multiparty licensing (per host)</b>	See Cisco UWL ordering guide
<b>Cisco TMS Shared Multiparty Plus Starter Kit Includes CTI-TMS-SW-K9 &amp; LIC-TMS-MSEX-25</b>	TP-SMP-K9 LIC-TMS-STARTERKIT
<b>Cisco TelePresence Management Suite Base License</b>	<b>CTI-TMS-SW-K9</b>
<b>Cisco TMS - additional 25 systems</b>	LIC-TMS-25
<b>Cisco TMS - additional 100 systems</b>	LIC-TMS-100
<b>Cisco TMS Provisioning Extension required only for endpoint remote provisioning. Use of CMR Provisioning or Smart Scheduler - no license required</b>	
<b>Cisco TMS Provisioning Extension - 25 additional active devices</b>	LIC-TMS-PE-25
<b>Cisco TMS Provisioning Extension - 100 additional active devices</b>	LIC-TMS-PE-100
<b>Cisco TMS Provisioning Extension - 500 additional active devices</b>	LIC-TMS-PE-500
<b>Cisco TMS Provisioning Extension - 2000 additional active devices</b>	LIC-TMS-PE-2000
<b>Cisco TMS Provisioning Extension - 10000 additional active devices</b>	LIC-TMS-PE-10000
<b>Cisco TMS Provisioning Extension - 100000 additional active devices</b>	LIC-TMS-PE-100000
<b>Cisco TMS Unmanaged Bridge Network Integration Extension (Acano 1.x, Polycom, MGC, Radvision VialP, Cisco 3540)</b>	LIC-TMS-NETINT
<b>Cisco TMSBA - Extension Booking API - per 25 system registrations</b>	LIC-TMS-BAPI-25
<b>Cisco TMSXE - Extension for Microsoft Exchange - per 25 system registrations</b>	LIC-TMS-MSEX-25
<b>Cisco TMS Application Integration Package - per server integration for unlimited device booking with TMSBA or TMSXE</b>	LIC-TMS-APPINT

**Table 5.** Ordering Options for Additional Device Licenses or Optional Features for Existing Installations

Product Name	Part Number
<b>Electronic delivery license PAK for Cisco TelePresence Management Suite Installations</b>	L-TMS-SW-PAK
<b>Cisco TMS - additional 25 systems</b>	L-TMS-25
<b>Cisco TMS - additional 100 systems</b>	L-TMS-100
<b>Cisco TMS Provisioning Extension - 25 additional active devices</b>	L-TMS-PE-25
<b>Cisco TMS Provisioning Extension - 100 additional active devices</b>	L-TMS-PE-100

Product Name	Part Number
Cisco TMS Provisioning Extension - 500 additional active devices	L-TMS-PE-500
Cisco TMS Provisioning Extension - 2000 additional active devices	L-TMS-PE-2000
Cisco TMS Provisioning Extension - 10000 additional active devices	L-TMS-PE-10000
Cisco TMS Provisioning Extension - 100000 additional active devices	L-TMS-PE-100000
Cisco TMS Network Integration Extension (Acano 1.x, Polycom, MGC, Radvision VialP, Cisco 3540)	L-TMS-NETINT
Cisco TMSBA - Extension Booking API - per 25 system registrations	L-TMS-BAPI-25
Cisco TMSXE - Extension for Microsoft Exchange - per 25 system registrations	L-TMS-MSEX-25
Cisco TMS Application Integration Package - per server integration for unlimited device booking with TMSBA or TMSXE	L-TMS-APPINT

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## For More Information

For more information about the Cisco TelePresence Management Suite, please visit [Cisco TelePresence Management Suite](#) or contact your local Cisco account manager.



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