

Cisco Unified Videoconferencing Manager 5.7

A Comprehensive Management Suite for Cisco Unified Videoconferencing Solutions

Product Overview

Cisco® Unified Communications solutions enable collaboration so that organizations can quickly adapt to market changes while increasing productivity, improving competitive advantage through speed and innovation, and delivering a rich-media experience across any workspace, securely and with optimal quality.

The Cisco Unified Videoconferencing product line allows face-to-face discussions among remote participants. With the Cisco Unified Videoconferencing Manager, you can easily schedule, attend, and control Cisco Unified Videoconferencing meetings for an optimal video experience. The application lets you extend Cisco Unified Videoconferencing access to new classes of desktop video users. Organizations can also efficiently manage, scale, and monitor video resources for a low total cost of ownership (TCO).

Simple and Flexible Video Setup, Attendance, and Meeting Control

Cisco Unified Videoconferencing Manager helps organizations of all sizes improve communications by using their video resources more effectively. With this application, you can easily schedule video conferences from a web browser and Microsoft Outlook or IBM Lotus Notes calendars, where you can view, check availability, and reserve video resources such as multipoint control units (MCUs) and gateways. The application reduces complexity and facilitates optimal resource utilization by communicating with multiple MCU and gateway devices and automatically reserving the appropriate resources at the most efficient locations. Additional features such as custom meeting templates that identify bandwidth, layout, and terminal preferences; Lightweight Directory Access Protocol (LDAP) integration; email notifications; and automatic dialout to video terminals help make scheduling and attending flexible and efficient, thereby reducing TCO and the need for help-desk support.

Cisco Unified Videoconferencing Manager also helps improve meeting effectiveness by providing in-meeting controls, such as the capability to invite new users, mute and unmute participants, and change the meeting video layout. You can control all meetings from a single, centralized web user interface, and you can record and play back meetings for later review.

Extend Video Conferencing Access

Cisco Unified Videoconferencing Manager extends Cisco Unified Videoconferencing solutions with desktop video and firewall traversal capabilities that allow virtually anyone with a PC and a browser to participate in video conferences. Remote and traveling employees, partners, customers, and employees who do not have access to traditional video conferencing room or desktop systems can also now benefit from increased productivity and relationship building afforded by direct, real-time visual communications.

The desktop video capabilities provide two modes of conference attendance: interactive and streaming. The interactive mode allows you to connect to the Cisco Videoconferencing MCU with fully interactive audio, video, and H.239 data-sharing capabilities whether you are on the enterprise network, public Internet, or even another private network. The streaming mode allows you to connect to a live one-way stream of the audio, video, and data-share portions of the conference. The streaming mode is well suited for meetings such as a seminar that has a large audience but in which only a subset of attendees actively participate. Providing simple access to new classes of users extends the reach, flexibility, and effectiveness of Cisco Unified Videoconferencing deployments.

Cisco Unified Videoconferencing Manager desktop video also enhances the collaboration capabilities of Microsoft Office Communicator (MOC) and IBM Lotus Sametime by adding support for standards-based, multiparticipant video. Microsoft Office Communicator and Lotus Sametime users can initiate impromptu video communications with other Microsoft Office Communicator and Lotus Sametime users and with any video solution that can connect to a Cisco Unified Videoconferencing MCU, including Cisco TelePresence™ systems.

Advanced Video for Cisco WebEx Meeting Center

Cisco Unified Videoconferencing Manager desktop video has been integrated with Cisco WebEx™ Meeting Center to provide more advanced video capabilities for WebEx® meetings. The solution enhances productivity and collaboration by providing more of an in-person experience. The solution also expands the range of video devices that can be displayed in Cisco WebEx Meeting Center meetings from webcams to include standards-based video clients and room systems and Cisco TelePresence endpoints. So now no matter what video endpoint you are using, you can participate in the WebEx video experience. Cisco Unified Videoconferencing with WebEx also increases the number of video participants that can be simultaneously viewed, improves the resolution of displayed video up to 720p, and adds video controls to help you more effectively manage video interactions.

More Scalable and Efficient Video Conferencing

Cisco Unified Videoconferencing Manager reduces the hurdles to deploying video conferencing to large or geographically dispersed environments. Video conferencing devices are registered with Cisco Unified Videoconferencing Manager, which then combines the device information, network topology, and bandwidth information to help simplify user and administrator interactions and make intelligent resource-allocation decisions. For example, large conferences can be conducted on multiple MCUs simultaneously, which automatically cascade as needed and in a manner that best uses resources and meets the needs of the conference. You can dial a single number to attend conferences, regardless of which MCU is being used, and access meeting control functions for the entire video conferencing network from a single interface.

Single Interface for Video Monitoring and Management

Cisco Unified Videoconferencing Manager provides a single, centralized web interface from which you can view, browse, manage, and access directly all video conferencing infrastructure and endpoint devices. You can manage devices such as the Cisco Unified Videoconferencing MCUs and gateways as well as the Cisco IOS® Gatekeeper. The network manager component of the Cisco Unified Videoconferencing Manager also makes managing large numbers of endpoints more efficient by providing direct access to the administrative interface of any endpoint in the network, as well as providing direct configuration and software management of Sony endpoints. The network management component also provides centralized and flexible call detail records (CDRs), Simple Network Management Protocol (SNMP) notifications, trap forwarding with customizable severity levels, and a centralized log of all solutionwide events and errors. By simplifying and consolidating administrative access and control, the Cisco Unified Videoconferencing Manager helps improve availability and lower the TCO of video conferencing deployments.

Main Features and Benefits

The Cisco Unified Videoconferencing Manager offers important features and benefits for video users — and for your organization:

- Global, centralized view of all video endpoints and video conferencing network elements, enabling real-time control, monitoring, and maintenance of each device from a single interface
- Easy web-based scheduling and impromptu video conferencing, providing resource reservation and bandwidth monitoring
- Microsoft Outlook and IBM Lotus Notes integration for scheduling meetings through familiar desktop applications
- Firewall-friendly desktop video that extends fully interactive conferencing participation to virtually anyone with a PC and webcam, including users who are not on the organization's private network
- Live-streaming functions that provide view- and listen-only access to conferences
- Comprehensive multiparty conference control, which allows you to record video conferences
- Solution-level features such as automatic MCU cascading, single-number dial-in, geographical MCU and gateway resource selections, automatic dial-out to meeting participants and endpoints, and customized personal virtual rooms for impromptu meetings that allow you to easily and transparently scale the solution to large and geographically dispersed enterprise-class video conferencing deployments
- Centralized and flexible CDRs for the entire video conferencing deployment, giving you easy access to the solution utilization metrics that are most useful for your needs
- Integration with Microsoft Office Communicator and Microsoft Office Communications Server (OCS) and IBM Lotus Sametime clients for voice and video conferencing using native Microsoft Office Communicator and Lotus Sametime controls.

Product Information

Table 1 describes the product features and benefits, Table 2 lists the product server and client computer requirements, Table 3 describes the media-convergence-server feature capacities for this product, and Table 4 provides product ordering information.

Table 1. Cisco Unified Videoconferencing Manager Features

Feature	Description
Scheduling and attending	<ul style="list-style-type: none"> • Cisco Unified Videoconferencing Manager offers a web-based scheduling interface and Microsoft Outlook and IBM Lotus Notes integration for a simplified scheduling experience. • The application provides personalized private conference rooms for convenient impromptu conferences with your predefined settings. • The application provides a personal address book, so you can easily retrieve favorite contacts during scheduling. • The application offers attendee and endpoint availability checks. • The application enables video resources reservation on MCU and gateway products and bandwidth reservation. • The application provides options for recurring meetings. • The application offers email notifications to meeting participants with individual dial-in information, including URLs for desktop and streaming participants. • Invited endpoints are automatically connected to the meeting through outdial. • The automated-attendant feature provides single-number access to multiple MCUs.

Desktop video conferencing	<p>Connectivity modes:</p> <ul style="list-style-type: none"> • Interactive participation in video conferences on Cisco Unified Videoconferencing MCUs, including two-way audio, video, and H.239 data sharing • Live streaming mode for noninteractive participants that includes audio, video, and H.239 data-share channels of video conference <p>Built-in Network Address Translation (NAT) and firewall traversal:</p> <ul style="list-style-type: none"> • Offers capability to traverse local and remote firewalls for universal connectivity • Provides automatic handling of local and remote NAT private networks • Provides automatic detection of optimal media path: User Datagram Protocol (UDP), TCP, or tunneled TCP <p>High-definition video:</p> <ul style="list-style-type: none"> • Cisco Unified Videoconferencing Desktop video client allows reception of 720p HD video. <p>Scheduling and Attend options:</p> <ul style="list-style-type: none"> • Meetings are scheduled through the same web interface, Microsoft Outlook plug-in, or IBM Lotus Notes as all other Cisco Unified Videoconferencing Manager conferences; simply check the box that enables desktop or streaming participation. • MCU ports are reserved for desktop participants to help ensure availability for critical meetings. • You can access the conference in both modes by simply clicking a URL in the invitation; the required software downloads and automatically connects you to the conference. <p>Layout selection and user controls:</p> <ul style="list-style-type: none"> • You can choose your own layout, which focuses on the video or data-share content of the conference, side-by-side video and data, or full-screen video or data. <p>Desktop attendees have extensive user controls:</p> <ul style="list-style-type: none"> • Mute and unmute • Stop, pause, and start video • Turn on and turn off self-view • Choice between active speaker or continuous-presence video layouts • Option to have system call back the phone or video endpoints of choice • Consolidated conference roster (desktop and room attendees) <p>Cisco WebEx Meeting Center integration:</p> <ul style="list-style-type: none"> • Support for standards-based video devices, including Cisco TelePresence, in Cisco WebEx Meeting Center meetings • HD video (720p) display • Advanced video layouts and controls • Setup and attend from Cisco WebEx Meeting Center Release 27 scheduling interfaces <p>Microsoft Office Communicator and IBM Lotus Sametime integration:</p> <ul style="list-style-type: none"> • Through Cisco Unified Videoconferencing Desktop plug-in integration, you can connect to multiparty, standards-based voice and video meetings that are embedded in the client interface. • Client plug-ins for both Microsoft Office Communicator and IBM Lotus Sametime are included in the software suite at no additional charge. <p>Security:</p> <ul style="list-style-type: none"> • Secure Real-Time Transport Protocol (SRTP) encryption helps ensure privacy of media and signaling between the participant and the server. • Waiting rooms are provided; conferences do not start until the moderator joins. • Predefined virtual rooms are available; in this optional mode, only predefined virtual rooms can be used for meetings. • You can disable the Callback feature.
Meeting control	<ul style="list-style-type: none"> • View and control meeting participants, even in multi-MCU deployments, from a single interface. • Invite or dial out to additional participants. • Change screen layouts in real time. • Extend the conference time.
Meeting recording and playback	<ul style="list-style-type: none"> • Initiate a recording of any Cisco Unified Videoconferencing meeting from a web browser or the Cisco Unified Videoconferencing desktop client interface. • Play back recordings from a web browser using a QuickTime plug-in. • The administrator or meeting scheduler can password-protect recordings to restrict access.
Administrative features	<ul style="list-style-type: none"> • CDRs are customizable for monitoring and billing purposes. • You can access reports and statistics for the entire deployment from a single user interface. • You can manage user time zones.
Element management	<ul style="list-style-type: none"> • Cisco Unified Videoconferencing Manager manages all video conferencing devices on the network, including gatekeepers, MCUs, and gateways, as well as the video conferencing endpoints. • The application offers autodetection of video endpoints and network infrastructure devices to discover the entire video conferencing network with a single click.

Easy-to-use element browser	<ul style="list-style-type: none"> • Networkwide view of calls and conferences • Drag-and-drop management • Capability to click an endpoint to open its individual web management interface
Endpoint management	<ul style="list-style-type: none"> • Autodiscovery of all endpoints • Centralized direct access to individual endpoint administration webpages • Direct software and configuration management of Sony video conferencing endpoints
Monitoring and alerts	<ul style="list-style-type: none"> • Status and statistics of devices • Customizable trap severity to fit any type of deployment • Display of events and errors received from elements for error management • Trap forwarding to tier 3 manager
Multilingual support	<p>Administrator languages (for network manager component):</p> <ul style="list-style-type: none"> • English • Japanese • Simplified Chinese • Traditional Chinese • Korean <p>User languages (resource manager or scheduler component):</p> <ul style="list-style-type: none"> • English • Japanese • Simplified Chinese • Traditional Chinese • Korean • Portuguese • German • Italian • Spanish • French • Russian

Table 2. Cisco Unified Videoconferencing Manager Requirements and Specifications

Feature	Requirements
Server requirements	Requires the Cisco MCS 7835 or 7845 Media Convergence Server; refer to Table 3 for model numbers and details
Client computer requirements for desktop features	<ul style="list-style-type: none"> • Operating systems: Windows XP or Windows Vista • Interactive-mode supported browsers: Microsoft Internet Explorer 6 or 7 • Streaming-mode supported browsers: Microsoft Internet Explorer 6 or 7, Firefox, and Apple Safari
Outlook add-on requirements	<p>Server: Microsoft Exchange 2000 or 2003 Server</p> <p>Client: Microsoft Outlook 2000 SP3, Outlook XP, Outlook 2003, or Outlook 2007 supported on Windows XP operating systems</p>

Table 3. Cisco Unified Videoconferencing Manager Capacities on Cisco Media Convergence Servers

Feature	Requirements	
	Cisco MCS 7835	Cisco MCS 7845
Resource manager and network manager only	500 MCU ports	500 MCU ports
Interactive desktop only	50 simultaneous connections	75 simultaneous connections
Streaming desktop only	300 simultaneous streams	300 simultaneous streams
Interactive, streaming desktop, and recording	50 interactive connections, 150 streams, and 1 recording connection	75 interactive connections, 225 streams, and 3 recording connections

Table 4. Cisco Unified Videoconferencing Manager Ordering Information

Part Number	Product	Description
CUV-MGR-5.x	Cisco Unified Videoconferencing Manager Version 5.7 software	<ul style="list-style-type: none"> This software provides all product features noted in this data sheet. The software requires a minimum of 25 licenses and supports up to 500 licenses. Refer to next item in this table for license definition. The software requires the purchase of the Cisco Media Convergence Server (sold separately).
CUVC-MGR-LIC-25 (=)	Twenty-five licenses for Cisco Unified Videoconferencing Manager	<ul style="list-style-type: none"> This configuration option on Cisco Unified Videoconferencing Manager has a minimum quantity of one (25 licenses). It supports a maximum quantity of 20, or 500 licenses total. Each option of 25 licenses supports the following product capacities: <ul style="list-style-type: none"> Management of 25 MCU ports Support for 25 concurrent desktop connections Support for 75 simultaneous unicast conference streams <p>Note: Individual MCS servers may have maximum capacities that are lower than the allowed software license capacities of this product. Refer to Table 3 for details about server capacities to ensure that you purchase enough servers to support the number of software licenses purchased.</p> <ul style="list-style-type: none"> You can purchase licenses as a configured option at the time of purchasing the Cisco Unified Videoconferencing Manager software, or as spares at a later time to expand capacity.
CUVC-MGR-REC-1	Single Recording license	
CUVC-MGR-REC-3	Recording license for up to three (3) simultaneous conferences	
CUVC-MGR-REC-5	Recording license for up to five (5) simultaneous conferences	
CUVC-MGR-REC-10	Recording license for up to ten (10) simultaneous conferences	Licenses must be ordered in these increments. For example, if you want 8 licenses, you must order the REC-10 SKU.
MCS-7835-I2-RC2 or MCS-7835-H2-RC2	Cisco MCS 7835-I2 or H2 Media Convergence Server	Refer to the Cisco MCS 7835-H2 or I2 data sheet for details: Cisco MCS 7835-I2 or H2
MCS-7835-I2-RC2 or MCS-7845-H2-RC2	Cisco MCS 7845-I2 or H2 Media Convergence Server	Refer to the Cisco MCS 7845-H3 I2 or H2 data sheet for details: Cisco MCS 7845-H2

Cisco Unified Communications Services

Cisco and our certified partners can help you deploy a secure, resilient Cisco Unified Communications solution, meeting aggressive deployment schedules and accelerating business advantage. The Cisco portfolio of services is based on proven methodologies for unifying voice, video, data, and mobile applications on fixed and mobile networks.

The unique Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle. Customized planning and design services focus on creating a solution that meets your business needs. Award-winning technical support increases operational efficiency. Remote management services simplify day-to-day operations, and optimization services enhance solution performance as your business needs change.



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