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Cisco Meeting Server and Cisco Meeting App

Cisco® Meeting Server revolutionizes team collaboration through high scale and advanced interoperability in audio, web, and video conferencing. Cisco Meeting App gives everyone access by making it simpler to create, join, and run collaboration sessions.

Product Overview

Cisco Meeting Server brings video, audio, and web communication together to meet the collaboration needs of the modern workplace. Cisco Meeting App allows anyone to create, join, and run meetings easily, from room or desktop video systems, mobile clients, or browsers. Cisco Meeting Server helps ensure that everyone gets a consistent, familiar meeting experience, whether they're joining a meeting using Cisco or third-party video endpoints, a Cisco Jabber® client, Cisco Meeting App (native or via a WebRTC compatible browser), or Skype for Business. Any number of people can join a meeting, up to the limit of the available underlying hardware, and bandwidth usage is optimized in order to reduce cost. Cisco Meeting Server provides a user experience that is simple, intuitive, and easy.

Cisco Meeting Server has been optimized to be deployed with Cisco Unified Communications Manager, Cisco Expressway or Cisco TelePresence® Video Communication Server (VCS) for call control, Cisco Expressway for firewall traversal, and Cisco TelePresence Management Suite for scheduling (third-party on-premises infrastructure is also supported). It scales easily for small or large deployments, allowing capacity to be added incrementally as needed. The all-in-one, user-based licensing model allows you to buy the services you need today and add more licenses as your organization grows. Combined, Cisco Meeting Server and its licensing model provide you with flexibility to meet the changing needs of your organization.

Prominent Features

Advanced Interoperability

Anyone can join a meeting and enjoy a high-quality, consistent, and familiar experience using:

- Cisco or third-party video endpoints
- Cisco Jabber client
- Cisco Meeting App (native or with a WebRTC compatible browser)
- Skype for Business/Office 365

High Scalability and Geographic Distribution

Meetings scale easily:

- Low-cost virtualized Cisco UCS® servers for entry-level deployments (Cisco Meeting Server 1000 supports up to 96 HD ports), as well as Cisco UCS servers for large-scale deployments (Cisco Meeting Server 2000 is the industry's highest-capacity single server and supports up to 500 HD ports).
- Seamless scalability between hardware platforms, enabling customers to deploy different servers where they are needed and for meetings to easily expand across multiple platforms.

- Bandwidth optimization for meetings between offices in different locations.
- Grouping of conferences onto the same call bridge and load balancing of conferences across call bridges to maximize capacity.
- Up to 24 call bridge nodes within each cluster (R&D will assist in designs that require 8 or more servers), connecting up to 40 calls per second, up to 500 HD participants in a single space on a single server (2600 HD participants across multiple servers).
- Conference streaming support to scale beyond the Cisco Meeting Server deployment.

Simple, Predictable All-in-One Commercial Model

Get users up and running easily, with licensing that:

- Is available in Cisco Unified Workplace Licensing Meetings, or can be purchased on a per-meeting basis.
- Includes spaces (personal meeting room environments), Cisco Meeting App, scheduling, and firewall traversal in one license.
- Enables customers to purchase the license entitlements that they need today and scale up as needed.

Features and Benefits

Table 1 lists the features and benefits of Cisco Meeting Server.

Table 1. Features and Benefits

Feature	Benefit
Interoperability	Collaboration becomes easier and joining meetings simpler because users can choose the device and application they connect with. Whether they choose Cisco or third-party room or desktop endpoints, a Cisco Jabber client, Cisco Meeting App (native or via a WebRTC compatible browser), or Skype for Business/Office 365, on a laptop, tablet, or mobile phone, they can collaborate from anywhere, on any device, at any time.
Geographic distribution with bandwidth optimization	Preserves the user experience in larger video conferences while reducing bandwidth costs.
High scalability	Multiparty licensing does not restrict meeting size, individual spaces support up to 500 participants and can be cascaded where greater scale is required. Table 2 (call capacity) shows what can be achieved in certain scenarios. However, individual servers can be configured to allow more participants to join meetings by incrementally changing the quality of existing participants. In larger deployments with groups of servers, conferences can be load balanced first and then set to allow more participants to join by incrementally changing the quality of existing deployments.
One solution	By supporting all major video standards in one solution and optimizing the experience regardless of the underlying technology or device, Cisco Meeting Server provides a consistent user experience for audio, video, and content sharing while reducing the complexity and cost of the deployment.
Everyone's invited	Collaborate with other businesses and customers by inviting them to meet, just by sending them a link.
Security	Collaboration is highly secure, as Cisco Meeting Server uses "clean slate" technology and a secure development lifecycle. With Federal Information Processing Standards (FIPS), Joint Interoperability Test Command (JITC), and Common Criteria certifications, Cisco Meeting Server adheres to the most stringent security models.
End-user control	End-user adoption increases because they can create and edit their own spaces with Cisco Meeting App as well as run their meetings (view participant lists, mute* and remove participants, start and stop recording, etc.) with Cisco Meeting App and Cisco TelePresence endpoints **.
Simple all-in-one user-based licensing model	Reduces purchasing complexity and enables IT managers to easily enable user services.

* The ability to mute participants and start and stop recording is not currently supported by Cisco TelePresence endpoints.

** Cisco TelePresence endpoints need to be running CE 8.3 or higher in order to enable this functionality.

Platform Support

Cisco Meeting Server software is optimized to run on the **Cisco Meeting Server 1000** and **2000** but also supports the Multiparty Media 400 and 410v as well as specs-based servers. In terms of scale, Table 2 shows the capacity a call bridge on **Cisco Meeting Server** can support on each server (video calls assume 720p5 content, up to 2.5 Mbps bandwidth and audio calls assume G.711).

One of the key benefits of Cisco Meeting Server is its ability to scale flexibly. Although Table 2 (call capacity) shows what can be achieved in certain scenarios, individual servers can be configured to allow more participants to join meetings by incrementally changing the quality of existing participants. In larger deployments with groups of servers, conferences can be load balanced first and then set to allow more participants to join by incrementally changing the quality of existing deployments.

Table 2. Call Capacity on Supported Servers

Type of Call	Cisco Meeting Server 1000 [*]	Cisco Meeting Server 2000 ^{**}
Full HD calls (1080p30)	48	250
HD calls (720p30)	96	500
SD calls (448p30)	192	1000
Audio calls	3000	3000

^{*} The Cisco Meeting Server 1000 is a preconfigured version of the Cisco UCS C220 M4 Rack Server, full specifications for which can be found at <http://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c220-m4-rack-server/datasheet-c78-732386.html>. For the Cisco Meeting Server 1000, Cisco Meeting Server runs on top of VMware and a separate VMware license is required.

^{**} The Cisco Meeting Server 2000 is a preconfigured Cisco UCS 5108 chassis with eight Cisco UCS B200 M4 blades, full specifications of which can be found at http://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-5100-series-blade-server-chassis/data_sheet_c78-526830.html, and <http://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b200-m4-blade-server/datasheet-c78-732434.html>. For the Cisco Meeting Server 2000, Cisco Meeting Server runs directly on the server and does not require VMware.

Cisco Meeting Server 2.0 is also supported on the Multiparty Media 410v, 410vB, and 400. If a license for Cisco TelePresence Virtualization Software 5.5 was purchased with the Multiparty Media 410v, 410vB or 400, it can be reused with Cisco Meeting Server. HD and SD capacities will be the same with Cisco Meeting Server software as with the Cisco TelePresence Server software (64 HD, 128 SD, and 2000 audio ports for the multiparty Media 410v and 410vB and 36 HD, 72 SD, and 1000 audio ports for the Multiparty Media 400).

For specs-based servers, Cisco Meeting Server is capable of 1.25 720p30 H.264 call legs for each virtual core of an Intel[®] Xeon[®] 2600 Series (or later) CPU running at 2.5 GHz when hyperthreading is enabled.

Lync Video calls into the call bridge consume the same resources as SIP calls.

Product Specifications

Table 3 lists the specifications for Cisco Meeting Server.

Table 3. Specifications

Video standards	<ul style="list-style-type: none">• H.263 (+, ++)• H.264 AVC (Baseline and High Profile)• H.264 SVC• WebM, VP8• Microsoft RTV• HTML5/WebRTC• SIP, H.323, TIP
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Audio standards	<ul style="list-style-type: none"> • AAC-LD • Speex • Opus • G.722, G.722.1, G.722.1c, G.728, G.729a, G.711a/u
Bandwidth	Up to 6000 kbps
Resolution and frame rate	Up to 1080p at 60 fps for main video and up to 1080p at 30 fps for content
Management	<ul style="list-style-type: none"> • Server management • Lightweight Directory Access Protocol (LDAP)-driven scripting language for configuration • Representational state transfer (REST) API for assets, monitoring, and diagnostics • Call detail record (CDR) streaming for auditing • Syslog for diagnostics • Multitenancy support • Simple Network Management Protocol (SNMP) • Backup and restore
Security	<ul style="list-style-type: none"> • IP media (video and audio) is Advanced Encryption Standard (AES) encrypted (industry-standard Secure Real-Time Transport Protocol [SRTP]) • All control data is authenticated and encrypted (industry-standard Transport Layer Security [TLS]/Secure Sockets Layer [SSL]) • Domain Name System Security Extensions (DNSSEC) • IPv6 support • A security code/PIN option for Spaces • On-screen visual indication of audio-only participants and encryption status • Field industry-standard strong cryptography protection of communications • JITC certified • FIPS-140-2
Cisco Meeting App device compatibility	Windows, OS X, iOS, and WebRTC browsers

Ordering Information

Below are the four main steps to ordering Cisco Meeting Server, refer to the ordering guide (<http://www.cisco.com/c/en/us/products/conferencing/meeting-server/sales-resources-listing.html>) for more information:

1. Customers should select the platform. Cisco Meeting Server software has been optimized to run on the Cisco Meeting Server 1000 and 2000 (third-party servers are also supported).
2. Flexible capacity licensing options enable customers to deploy Cisco Meeting Server capabilities in the way that best suits their needs. Cisco Meeting Server can be licensed on a per-meeting basis with Cisco Multiparty licenses. These licenses are available in the form of Personal Multiparty Plus (named host) and Shared Multiparty Plus (shared host) licenses (visit cisco.com/go/personalmultiparty). Alternatively, you can purchase capacity units for a concurrent call-based model (traditional license model).
3. Options such as branding or recording and streaming can be added.
4. Cisco Meeting App can be downloaded from <http://www.cisco.com> for Mac and PC or the App store for iOS devices.

Table 4 provides ordering information for Cisco Meeting Server.

Table 4. Ordering Information

Platform	License	Options
CTI-CMS-1K-BUN-K9 (Cisco Meeting Server and a Cisco Meeting Server 1000)	TP-SMP-K9 (Shared Multiparty Plus license)	CMS-BRANDING (branding)
	CUWL-11X-K9/CUWL-10X-K9, then select NEW-UWL-11X-MTG/NEW-UWL-10X-MTG or CMS-PMP-K9 (Personal Multiparty Plus license)	CMS-RECORDING (recording and streaming)
CTI-CMS-2K-BUN-K9 (Cisco Meeting Server and a Cisco Meeting Server 2000)	LIC-CMS-ACU= (Cisco Meeting Server capacity unit)	

Third-party platforms are also supported, in which case the Cisco Meeting Server software can be ordered separately (R-CMS-K9).

Table 5 shows the number of participants that are entitled to join a meeting by license type.

Table 5. Meeting Capacity by License Type

Type of Call	Participants per Shared Multiparty Plus License	Participants per Personal Multiparty Plus License	Participants per Cisco Meeting Server Capacity Unit
Full HD calls (1080p30)	Unrestricted	Unrestricted	0.5
HD calls (720p30)	Unrestricted	Unrestricted	1
SD calls (448p30)	Unrestricted	Unrestricted	2
Audio calls	Unrestricted	Unrestricted	12

Note that although the licensing does not restrict the number of participants, there might be another limitation that restricts the number of participants.

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