Main page: Cisco Unified MeetingPlace, Release 7.0

Up one level: Planning Your Deployment

Note: For quick reference tables of various Cisco Unified MeetingPlace configurations and their system capacity limits, see System Capacity Quick Reference Tables.

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Capacity Definitions

The Cisco Unified MeetingPlace system refers to various forms of capacity. The following definitions are provided to help you understand and calculate the usable capacity of your system:

Licensed Capacity

Refers to the number of ports for which you have a license.

- Voice, web, and video have "conf" licenses (voiceconf, webconf, and videoconf) and "max" licenses (maxvoice, maxweb, and maxvideo).
- The licensed capacity for each component is the *lesser* of these values.

Physical Capacity

Refers to the capacity of the media and web servers associated with your Cisco Unified MeetingPlace system.

- **Voice capacity**: This is equal to the number of Cisco Unified MeetingPlace Audio Blades subject to the Global Voice Parameter.

- **Video Capacity**: This is equal to the number of Cisco Unified MeetingPlace Video Blades subject to the Video Global Parameter. The Global Video Parameter determines the bandwidth supported by Cisco Unified MeetingPlace video conferencing:
  - "Standard Rate" allows video connection with bandwidth from 64 Kbps up to 384 Kbps. System capacity is calculated as follows: 48 ports if single blade, or 40 ports/blade * n blades.
  - "High Rate" allows video connection with bandwidth from 64 Kbps up to 2000 Kbps. System capacity is calculated as follows: 24 ports if single blade, or 20 ports/blade * n blades.

Note: If the physical capacity is less than the licensed capacity, the system generates an alarm each time it starts up or whenever the capacity changes. To prevent this alarm and bring the licensed capacity in line with the physical capacity, set the **capacity override values** fields for voice and video on the Meeting Configuration page in the Administration Center. This changes the effective licensed capacity to match the override values.

Global Voice Parameter	Supported Number of Audio Ports	Maximum Number of Supported Ports per System (a system consists of 1 Application Server, 2 Web Servers, 6 Audio blades, and 6 Video blades)
G.711	250 per Audio Blade	1500
G.711, G.729, G.722, and iLBC codecs, with transcoding and echo cancellation enabled	166 per Audio Blade	996
G.711 and G.729 with echo cancellation disabled **Note:** We do not recommend this option for wide area networks or long distance callers.	250 per Audio Blade	1500

Video Global Parameter	Number of Video Ports	Maximum Number of Supported Ports per System (a system consists of 1 Application Server, 2 Web Servers, 6 Audio blades, and 6 Video blades)
Standard Rate	• Single Video Blade system = 48 ports • Multiple Video Blade system = 40 ports/blade * n blades For example, two Video Blades = 80 ports.	240
High Rate	• Single Video Blade system = 24 ports • Multiple Video Blade	120

	system = 20 ports/blade * n blades For example, two Video Blades = 40 ports.	

Available Capacity

The effective licensed capacity modified by the value of the global audio mode or the global video mode. If the physical capacity is less than the licensed capacity, the system schedules resources based on an inaccurate count of ports.

- In the higher capacity setting of each mode ("G.711, G.729; 250 ports/blade" for voice or "Standard Rate" for video), the available capacity matches the licensed capacity.
- You can increase the function of each port at the expense of capacity by using the lower capacity setting. For voice, the lower capacity setting adds additional codecs at the cost of one third of the number of voice ports. For video, the lower capacity "High Rate" mode allows higher bandwidth at the cost of one half of the number of video ports.

Schedulable Capacity

The available capacity plus the number of overbook ports, minus the number of floater ports. We recommend that you set the number of overbook and floater ports to a percentage of the available capacity, so if the available capacity changes (such as by changing the mode) you can adjust the overbook and floater ports accordingly. Overbooking parameters only apply to the MeetingPlace Scheduling deployment model, Floater port settings are needed for either MeetingPlace or Webex Scheduling deployment models.

Web Server Capacity

Web Server capacity refers to the number of ports that a Cisco Unified MeetingPlace Web Server can support. Web Server capacity depends on the following:

- Type of hardware that you are using
- Features and applications that you have installed, for example, Secure Socket Layer (SSL), recording, or integrations with scheduling clients such as Cisco Unified MeetingPlace for Outlook.

Cisco Unified MeetingPlace distinguishes between:

- The number of web ports supported per system.
- The number of web ports supported per Web Server.
- The number of web ports supported per meeting.

Note: For the purposes of these descriptions, a "system" is comprised of the following:

- 1 Application Server
- 2 Web Servers
- 6 Audio blades

- 6 Video blades

Supported Number of Web Ports Per System

A system is comprised of one Application Server, two Web Servers, six Audio blades, and six Video blades. The following numbers assume that the web ports (or number of web sessions) are spanning across multiple meetings.

One system supports the following:

Web Conferencing Configuration	Supported Number of Web Ports for MCS-7845
No SSL, no recording	1000
SSL or recording enabled	• 700 (Release 7.0.2 (MR1)) • 1000 (Release 7.0.3 (MR2))

Supported Number of Web Ports Per Web Server

Table: Number of Web Conferencing Ports Supported for 7835 and 7845 H2, I2, I3 Servers lists the number of web conferencing ports supported per server for the following models:

- Cisco MCS 7835-H2
- Cisco MCS 7835-I2
- Cisco MCS 7845-H2
- Cisco MCS 7845-I2
- Cisco MCS 7845-I3

Note: The 7845-I3 server is only supported for Release 7.0.3 (MR2).

These numbers work for systems with Secure Sockets Layer (SSL), Cisco Security Agent (CSA), scheduling with Microsoft Outlook or IBM Lotus Notes, outdial, and various audio and video codecs. The web capacity is limited only by whether you have recording enabled on the system.

Table: Number of Web Conferencing Ports Supported for 7835 and 7845 H2, I2, I3 Servers

Web Conferencing Configuration	Supported Number of Ports per 7835-H2 or 7835-I2	Supported Number of Ports per 7845-H2 or 7845-I2	Supported Number of Ports per 7845-I3
No SSL, no recording	400	500	600
SSL enabled, no recording	400	500	600
SSL, recording enabled for audio, video, and/or web	250 (Can have up to 25 simultaneous recordings per system)	350 (Can have up to 50 simultaneous recordings per system)	600 (Can have up to 50 simultaneous recordings per system)

Table: Number of Web Conferencing Ports Supported for 7835 and 7845 H1, I1 Servers lists the number of Web Conferencing ports supported per server based on the most common configurations for the Cisco MCS 7835-H1, Cisco MCS 7835-I1, Cisco MCS 7845-H1, and the Cisco MCS 7845-I1. For these servers, the web capacity is limited by whether the system has SSL and a scheduling program installed.

Table: Number of Web Conferencing Ports Supported for 7835 and 7845 H1, I1 Servers

Web Conferencing Configuration	Supported Number of Ports per 7835-H1 or 7835-I1	Supported Number of Ports per 7845-H1 or 7845-I1
No SSL	100	250
SSL enabled	70	175
No SSL, integration with either Cisco Unified MeetingPlace for Microsoft Outlook[1] or Cisco Unified MeetingPlace for IBM Lotus Notes	80	200
SSL, integration with either Cisco Unified MeetingPlace for Microsoft Outlook[1] or Cisco Unified MeetingPlace for IBM Lotus Notes	50	140

Footnote 1: Because of the different architectures for Cisco Unified MeetingPlace Release 7.0.1 and Release 7.0.2, this option only applies to Release 7.0.1. In Release 7.0.2 and later, Cisco Unified MeetingPlace for Outlook is automatically included on the Application Server.

Tip: Remember that the maximum supported number of web ports or web users per meeting is subject to the maximum number of audio ports per meeting. Audio meetings are restricted to 500 ports due to the rate at which a single Audio blade can accept traffic. For a quick reference table of various system capacities per Cisco Unified MeetingPlace configuration, see System Capacity Quick Reference Tables Cisco Unified MeetingPlace does not support a single meeting spanning multiple servers.

Supported Number of Web Ports Per Meeting

The maximum supported number of web ports or web users per meeting is subject to the maximum number of audio ports per meeting. Audio meetings are restricted to 500 ports due to the rate at which a single Audio blade can accept traffic. For a quick reference table of various system capacities per Cisco Unified MeetingPlace configuration, see System Capacity Quick Reference Tables

Note: Cisco Unified MeetingPlace does not support a single meeting spanning multiple servers.

About Monitoring the Capacity and Usage of the System

Cisco Unified MeetingPlace has three reports that assist you in determining the capacity of your system. See Port Utilization Report Page and Unattended Ports Report Page for descriptions of these reports. These reports track the following:

- Port utilization

- Unattended ports (available in Release 7.0.2 and later)
- Amount of minutes used monthly (available in Release 7.0.2 and later)

Cisco recommends a Port Utilization averaging 80%, when system utilization is higher, then adding additional port capacity is recommended to keep system from growing to 100% utilization which will block callers at peak periods.