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## Application Server Requirements

**Note:** A valid DNS service is required if you are upgrading the Cisco Unified MeetingPlace Application Server from Release 7.0 to 7.1.

- [Application Server Models](#)
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## Application Server Models

The Cisco Unified MeetingPlace Application Server is installed on a Cisco Media Convergence Server (MCS).

## Cisco Unified MeetingPlace, Release 7.1 -- Hardware Requirements

- Cisco MCS 7835 models support a maximum of 500 audio ports.
- Cisco MCS 7845 models support a maximum of 1500 audio ports.

The Application Server must be one of the following Cisco MCS models:

**Table: Supported Cisco MCS and Third-Party Equivalent Servers for the Application Server**

Cisco MCS Version	Description	IBM Part Number	HP Equivalent
MCS 7845-I3-RC2	Dual Intel E5540 2.53 GHz; 4x300 HDD, 8 GB RAM  HP equivalent: 2 Quad-Core Intel 2.53 GHz E5540 Processor, 8GB RAM, 4x300GB HDD	7947-62Y (worldwide reseller), 7947-AC1 (IBM direct US/CAN/LA), 7947-CTO (IBM direct EMEA/AP)	DL380-G6 Server, part number: AX693A
MCS 7835-I3-RC1	Single Intel 5504 Quad-core 2.00 GHz; 2x146 HDD, 4 GB RAM  HP equivalent: 1 Quad-Core Intel 2.00 GHz Intel Nehalem E5504 Processor, 4GB RAM, 2x 146GB Hard Drives	7947-22Y (worldwide reseller), 7947-AC1 (IBM direct US/CAN/LA), 7947-CTO (IBM direct EMEA/AP)	DL380-G6 Server, part number: AX690A
MCS 7845-I2-RC2 (end-of-sale 12/09)	IBM x3650 2x Xeon 5140 2.33GHz Dual-Core Processor, 4G RAM, 2x 146GB HDD	7979-AC1 (IBM direct US/CAN/LA), 7979-CTO (IBM direct EMEA/AP)  Supported for upgrades only	Supported for upgrades only
MCS 7835-I2-RC2 (end-of-sale 12/09)  <b>Note:</b> This model must have at least 4 GB of memory using this memory module: MEM-7835-I2-2GB=	Single Xeon 5140 2.33GHz Dual-Core Processor, 2G RAM, 2x 146GB HDD, Requires +2GIG RAM	7979-AC1 (IBM direct US/CAN/LA), 7979-CTO (IBM direct EMEA/AP)  Supported for upgrades only	Supported for upgrades only
MCS 7845-I2-RC1 (end-of-sale 7/09)	Dual Intel 5140 2.33GHz; 4x72HDD, 4GB	Supported for upgrades only	Supported for upgrades only
MCS 7835-I2-RC1 (end-of-sale 7/09)  <b>Note:</b> This model must have at least 4 GB of memory using this memory module: MEM-7835-I2-2GB=	Single Xeon 5140 2.33GHz Dual-Core Processor, 2G RAM, 2x 72GB HDD	Supported for upgrades only	Supported for upgrades only

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MCS 7845-H2-RC2 (end-of-sale 7/09)	Dual Intel 5140 2.33GHz; 4x146GB HDD, 4 GB RAM	Supported for upgrades only	DL380-G5 Server, part number: 470064-887  Supported for upgrades only
MCS 7835-H2-RC2 (end-of-sale 7/09)  <b>Note:</b> This model must have at least 4 GB of memory using this memory module: MEM-7835-H2-1GB=	Single Xeon 5140 2.33GHz Processor, 2G RAM, 2x 146GB HDD	Supported for upgrades only	DL380-G5 Server, part number: 470064-880  Supported for upgrades only
MCS 7845-H2-RC1 (end-of-sale 7/09)	Dual Intel 5140 2.33GHz; 4X72GB HDD, 4GB RAM	Supported for upgrades only	Supported for upgrades only
MCS 7835-H2-RC1 (end-of-sale 7/09)  <b>Note:</b> This model must have at least 4 GB of memory using this memory module: MEM-7835-H2-1GB=	Single Intel 5140 2.33GHz, 2G RAM, 2x 72GB HDD	Supported for upgrades only	Supported for upgrades only

### Notes:

- The Cisco MCS 7845-I3-RC2/AX693A does not support the Web Server for Cisco Unified MeetingPlace Release 7.1.
- Cisco MCS 7845-H2/I2-RC1 and MCS 7835-H2/I2-RC1 servers are supported for upgrades only. However, they are not recommended for use with Cisco Unified MeetingPlace Release 7.1 due to their smaller hard drives.
- Cisco MCS 7845-H2/I2-RC2 and MCS 7835-H2/I2-RC2 servers are supported for upgrades only.
- If you are using the DL380-G6 Server from HP, the Application Server software must be at MP\_DVD\_308-7\_0\_2\_14.iso or higher from manufacturing.

**IMPORTANT!!!** When installing Cisco Unified MeetingPlace Release 7.1 Application Servers, make sure to connect the monitor directly to the server. Using a KVM of any kind (for example, a SIP Based KVM with SMART CABLE) might result in the installation UI not being displayed on the monitor, and thus prevent you from continuing with the installation.

- For detailed information about supported HP servers, see [http://www.cisco.com/en/US/prod/collateral/voicesw/ps6790/ps5748/ps378/product\\_solution\\_overview09186a008](http://www.cisco.com/en/US/prod/collateral/voicesw/ps6790/ps5748/ps378/product_solution_overview09186a008)
- For additional information about supported third-party servers, go to: <http://www.cisco.com/go/swonly>.

## Ethernet Port Settings

Cisco Unified MeetingPlace Release 7.1 supports the following Ethernet port settings:

- Application Server: Auto/Auto (Speed/Duplex)
- Ethernet Switch Port (must be a Gigabit switchport): Auto/Auto (Speed/Duplex)
- Result: Auto-negotiated to Gigabit/Full

### Related Information

- For information about physically installing the Cisco MCS, see the documentation at this location: [http://www.cisco.com/en/US/products/hw/voiceapp/ps378/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/voiceapp/ps378/prod_installation_guides_list.html)
- For information about installing the Cisco Unified MeetingPlace software onto the Application Server, see the *Installation, Upgrade, and Migration Guide for Cisco Unified MeetingPlace Release 7.1* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_installation_guides_list.html)

## Setting the Write Cache on a RAID Controller

For optimal system performance you should check the Default Write setting on your RAID controller. You can set Default Write to three settings: Write Back with BBU, Write Through and Always Write Back.

- Set Default Write to **Write Back with BBU** if you have installed a battery backup unit on your RAID controller. In the event of a system power loss, the battery backup unit preserves the content of the controller cache memory.
- In the event that the battery backup unit fails or goes offline to a re-learn cycle, the **Write Back with BBU** setting automatically fails back to **Write Through** mode. Without a working battery backup unit, the **Write Through** setting is safer, but it also brings a performance penalty on the I/O subsystem of the host device.
- If you need to remove the battery backup unit for repairs, you should explicitly set Default Write to **Write Through** mode and enable the cache explicitly (Disk Cache option). This should give you better but not optimal performance. When the faulty battery is replaced, you can safely return the Default Write setting to **Write Back with BBU** mode.
- If the host that houses your RAID controller is connected to an uninterruptible power supply unit, you can set Default Write to **Always Write Back** mode.

## Media Server Requirements

- [Cisco Unified MeetingPlace 3515 Media Server](#)
- [Cisco Unified MeetingPlace 3545 Media Server](#)
- [Audio and Video Blades](#)
- [Ethernet Port Settings](#)

Cisco Unified MeetingPlace requires a Cisco Unified MeetingPlace 3500 Series Media Server for audio-only or audio/video conferencing. Web conferencing or Cisco WebEx integration are optional.

There are two types of Cisco 3500 Series Media Servers:

### **Cisco Unified MeetingPlace 3515 Media Server**

- Fixed chassis with single power supply and single power cord.
- Includes one Audio Blade (250 ports) and one Video Blade that can support either 24 or 48 video user licenses based on video bandwidth settings.
- Cannot be modified in the field to change any hardware configuration, only upgrade software can be applied to the Audio Blades and Video Blades in this fixed one RU chassis.
- Audio Blades and Video Blades require one static IP address each and one Ethernet switch cable and connection for control by the Application Server.

### **Cisco Unified MeetingPlace 3545 Media Server**

- A four-slot chassis that provides redundant power supplies and redundant power plugs to separate power sources.
- Each Cisco Unified MeetingPlace 3545 Media Server can have any mixture of modular Audio Blades and Video Blades installed in any order.
- Each Cisco Unified MeetingPlace 3545 Media Server is comprised of at least one Audio Blade and optionally, one to four Video Blades.
- A minimum of one Audio Blade is required for a Cisco Unified MeetingPlace system.
- Video Blades (and video user licenses) are optional.
- Each Audio Blade and each Video Blade requires one Ethernet IP address to be statically assigned and one switch port assigned.
- The Application Server controls the audio and video SIP connections to each blade independently.

You can mix and match Cisco Unified MeetingPlace Media Servers. For example, if you deployed a Cisco Unified MeetingPlace solution using a Cisco Unified MeetingPlace 3515 Media Server, you could add more video ports to the solution by adding a Cisco Unified MeetingPlace 3545 Media Server chassis plus a Cisco Unified MeetingPlace 3545 Media Server Video Blade.

### **Audio and Video Blades**

You can purchase Audio Blades and Video Blades for "active" redundancy, without licenses. For example: Audio user licenses are sold to support 250 ports. Two Audio Blades are installed for a total of 500 available and active ports. System capacity is governed by the licenses for the total number of audio callers into one or many meetings. If a blade fails, the system stops using it and places callers onto the "redundant" Audio Blade.

A minor alarm is registered for the following:

- If a blade drops off unexpectedly

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- If the number of Video Blades is less than the number of Audio Blades
- By default, when the system reaches 75% of its call capacity

A major alarm is registered when the system reaches 95% of its call capacity and at 100%.

**Note:** The minor alarm setting is configurable from the Cisco Unified MeetingPlace Administration Center. Its value may range from 10% up to the level for the major alarm. The default setting is 75% of call capacity. You can also change the 95% default setting for the major alarm. The 100% setting is not configurable.

All Cisco Unified MeetingPlace Release 7.1 versions support a maximum of six Audio Blades and six Video Blades. The total number of audio and video ports this provides depends on your configuration:

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) <sup>1,2</sup>
G.711, G.729 with line echo cancellation (LEC) disabled  <b>Note:</b> We do not recommend this option for wide area networks or long distance callers.	250 per Audio Blade	1500
G.711, G.729, G.722, and iLBC codecs, with transcoding and line echo cancellation enabled	166 per Audio Blade	996

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) <sup>2</sup>
Standard Rate	<ul style="list-style-type: none"> <li>• Single Video Blade system = 48 ports</li> <li>• Multiple Video Blade system = 40 ports/blade * n blades</li> </ul> <p>For example, two Video Blades = 80 ports.</p>	240
High Rate	<ul style="list-style-type: none"> <li>• Single Video Blade system = 24 ports</li> <li>• Multiple Video Blade system = 20 ports/blade * n blades</li> </ul> <p>For example, two Video Blades = 40 ports.</p>	120

**Footnote 1:** Any caller beyond this number will hear a fast-busy signal.

**Footnote 2:** Cisco Unified MeetingPlace Release 7.1 supports a maximum of six Audio Blades and six Video Blades. However, you can add an additional two Audio and Video Blades for a total of eight each for the benefit of fault tolerance. The increased number of blades do not provide additional capacity.

## Ethernet Port Settings

We recommend the following Ethernet port settings:

Audio Blade	Ethernet Switch Port	Result
Auto-negotiate	Auto-negotiate	1000/Full

Video Blade	Ethernet Switch Port	Result
Auto-negotiate	Auto-negotiate	1000/Full

Application Server	Ethernet Switch Port	Result
Auto-negotiate	Auto-negotiate	Gigabit or 100/Full
Gigabit	Gigabit	Gigabit
100/Full	100/Full	100/Full

We do not recommend the following:

- One device set to auto-negotiate and the other device set in a fixed configuration.
- 10Mb Ethernet.
- Half duplex Ethernet at any speed.
- Using 10/100Mbps for MCU and EMP, nor any hard set values (MCU & EMP tested and certified only on Auto/Auto setting connected to 1Gb switchports)

**Caution!** Setting one device to auto-negotiate and the other device to a fixed configuration will often result in negotiation failure, where one side thinks it has a full duplex link and the other side thinks it has a half duplex link. This will result in intermittent non-specific failures which get progressively worse as the load on the system increases and can result in a complete service outage.

## Related Information

- For information about physically installing the Cisco 3500 Series Media Server, see [Installing the Cisco Unified MeetingPlace Hardware](#).
- For information about installing the Cisco Unified MeetingPlace software onto the Media Server, see the "Setting Initial Values for the Media Server" section in the *Configuration Guide for Cisco Unified MeetingPlace Release 7.1* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.htm](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.htm)

## Web Server Requirements

Cisco Unified MeetingPlace Release 7.1 supports a maximum of six Web Servers (three internal and three external), with a maximum of two database replication links (one for internal and one for external). For further details, see [Web Server Capacity](#).

- [Web Server Models](#)
- [Operating System Requirements](#)
- [SQL Server Requirements](#)
- [Networking Requirements](#)
- [Additional Requirements](#)
- [Load Balancing Requirements](#)
- [Segmented Meeting Access Requirements](#)

### Web Server Models

The Cisco Unified MeetingPlace Web Server is installed on a Cisco Media Convergence Server (MCS). The Web Server must be one of the following Cisco MCS models:

Cisco MCS Version	Description	IBM Part Number	HP Equivalent
MCS 7845-I3-RC1	Single Intel 5540 Quad-core 2.53GHz, 6GB RAM, 4x146 HDD HP equivalent: 1 Quad-Core Intel 2.53Ghz Intel Nehalem E5540 Processor, 6GB RAM, 4x 146GB Hard Drives	7947-62Y (worldwide reseller), 7947-AC1 (IBM direct US/CAN/LA), 7947-CTO (IBM direct EMEA/AP)	DL380-G6 Server, part number: AX691A
MCS 7835-I3-RC1	Single Intel 5504 Quad-core 2.00 GHz; 2x146 HDD, 4 GB RAM HP equivalent: 1 Quad-Core Intel 2.00 GHz Intel Nehalem E5504 Processor, 4GB RAM, 2x 146GB Hard Drives	7947-22Y (worldwide reseller), 7947-AC1 (IBM direct US/CAN/LA), 7947-CTO (IBM direct EMEA/AP)	DL380-G6 Server, part number: AX690A
MCS 7845-I2-RC1 (end-of-sale 7/09)	Dual Intel 5140 2.33GHz, 4GB RAM, 2x72GB HDD	Supported for upgrades only	Supported for upgrades only
MCS 7845-I2-RC2 (end-of-sale 12/09)	Dual Intel 5140 2.33GHz, 4GB RAM, 2x146GB HDD	7979-AC1 (IBM direct US/CAN/LA), 7979-CTO (IBM direct EMEA/AP) Supported for upgrades only	Supported for upgrades only
MCS 7835-I2-RC1 (end-of-sale 7/09)	Single Xeon 5140 2.33GHz Dual-core, 2GB RAM, 2x72GB HDD	Supported for upgrades only	Supported for upgrades only
MCS 7835-I2-RC2 (end-of-sale 12/09)	Single Xeon 5140 2.33GHz Dual-core, 2GB RAM, 2x146GB	7979-AC1 (IBM direct US/CAN/LA), 7979-CTO (IBM	Supported for upgrades only



## Cisco Unified MeetingPlace, Release 7.1 -- Hardware Requirements

	HDD	direct EMEA/AP)	
		Supported for upgrades only	
MCS 7845-H2-RC2 (end-of-sale 7/09)	Dual Intel 5140 2.33GHz; 4x146GB HDD, 4GB RAM	Supported for upgrades only	DL380-G5 Server, part number: 470064-887  Supported for upgrades only
MCS 7835-H2-RC2 (end-of-sale 7/09)	Single Xeon 5140 2.33GHz Processor, 2G RAM, 2x 146GB HDD	Supported for upgrades only	DL380-G5 Server, part number: 470064-880  Supported for upgrades only
MCS 7845-H2-RC1 (end-of-sale 7/09)	Dual Intel 5140 2.33GHz; 4X72GB HDD, 4GB RAM	Supported for upgrades only	Supported for upgrades only
MCS 7835-H2-RC1 (end-of-sale 7/09)	Single Intel 5140 2.33GHz, 2G RAM, 2x 72GB HDD	Supported for upgrades only	Supported for upgrades only
MCS 7835-H1-RC1	--	Supported for upgrades only	Supported for upgrades only
MCS 7835-H1-RC2	--	Supported for upgrades only	Supported for upgrades only
MCS 7835-I1-RC1	--	Supported for upgrades only	Supported for upgrades only
MCS 7835-I1-RC2	--	Supported for upgrades only	Supported for upgrades only

### Notes:

- The Cisco MCS 7845-I3-RC2/AX693A (2 Quad-Core) does not support the Web Server for Cisco Unified MeetingPlace Release 7.1.
- All end-of-sale servers are supported for upgrades only.
- For detailed information about supported HP servers, see [http://www.cisco.com/en/US/prod/collateral/voicesw/ps6790/ps5748/ps378/product\\_solution\\_overview09186a00](http://www.cisco.com/en/US/prod/collateral/voicesw/ps6790/ps5748/ps378/product_solution_overview09186a00)
- Cisco Unified MeetingPlace supports the Cisco MCS 7835 models only for systems that are upgrading a Web Server from Release 7.0.2 and later to Release 7.1. For Cisco Unified MeetingPlace systems that use new hardware for the Web Server, we require a Cisco MCS 7845 I3.
- The Cisco MCS 7835 models must have at least 4GB of memory using these memory modules:
  - ◆ MEM-7835-H2-1GB=
  - ◆ MEM-7835-I2-2GB=

Exact equivalent third-party servers are also supported. For information, go to <http://www.cisco.com/go/swonly>

## Operating System Requirements

The Cisco Unified MeetingPlace Web Server runs on the Cisco MCS operating system Cisco MCS OS 2003.1.5 SR6 or later, which is included with the software. Cisco Unified MeetingPlace supports the Cisco-provided operating system only.

## SQL Server Requirements

Cisco Unified MeetingPlace Web Conferencing requires Microsoft SQL Server 2000 (Service Pack 4). During the installation, you can choose the local SQL Server option or the remote SQL Server option:

**Note:** All SQL Servers are required to be local to the Cisco Unified MeetingPlace server that is handling the replication. SQL Servers can be ?remote? in that they are installed on separate machines within a local data center. However, Release 7.1 does not support attaching to an SQL Server in a remote data center. "Remote" SQL 2000 or 2005 is customer provided software and license. Cisco does not provide this for MeetingPlace installations for 'remote" install.

- If you choose the local SQL Server option, the system automatically installs SQL Server 2000 (Service Pack 4) during the Web Conferencing software installation. Microsoft SQL Server 2000 (Service Pack 4) is included in the Web Conferencing Release 7.1 installer.
- If you choose the remote SQL Server option, you must install SQL Server 2000 (Service Pack 4) before you install Web Conferencing. You must also install and configure your SQL Server to be case-insensitive because Web Conferencing supports only SQL Server case-insensitive configurations. If you configure your SQL Server to be case-sensitive, Web Conferencing will not function properly.

**Note:** If you choose the remote SQL Server option, you can use SQL Server 2005 (Service Pack 2) instead of SQL Server 2000 (Service Pack 4). To use SQL Server 2005, first install the SQL Server 2005 backward compatibility software (the Distributed Management Objects [DMO] component only) on the Web Server.

## Networking Requirements

- The Web Server must be configured with two static IP addresses on the same subnet.
- Cisco Unified MeetingPlace Web Servers must be connected to network switch ports that are configured for 100/1000 Mb full duplex.

## Additional Requirements

- Cisco Unified MeetingPlace Web Conferencing does not support "thin clients" (Citrix or Terminal Server).

- Cisco Unified MeetingPlace Web Conferencing requires that all corporate fonts and standard Microsoft fonts, including Microsoft PowerPoint fonts, are installed.
- Cisco Unified MeetingPlace Web Conferencing requires NT File System (NTFS) with more than 2.5 GB free space available.
- Cisco Unified MeetingPlace Web Conferencing requires additional disk space for recording. See the "Recording Size" section in the *Configuration Guide for Cisco Unified MeetingPlace Release 7.1* or the online help in the administrator interface for more information about recording.
- You must set the network port configuration on your Web Server to "Enable NetBIOS over TCP/IP" and not "Default."

## Related Information

- For information about physically installing the Cisco MCS, see the documentation at this location: [http://www.cisco.com/en/US/products/hw/voiceapp/ps378/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/voiceapp/ps378/prod_installation_guides_list.html)
- For information about installing the Cisco Unified MeetingPlace software onto the Web Server, see the *Installation, Upgrade, and Migration Guide for Cisco Unified MeetingPlace Release 7.1* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_installation_guides_list.html)
- If you are installing Web Conferencing in a segmented meeting access (SMA) configuration, also review the requirements in the [Segmented Meeting Access \(SMA\) Requirements](#).

## Load Balancing Requirements

Cisco Unified MeetingPlace Web Servers make use of an algorithmic formula to evenly distribute web-conferencing requests within a cluster of Web Servers.

Component	Requirement
Application Server	<ul style="list-style-type: none"> <li>• All Web Servers within both internal and external clusters must point to the same Cisco Unified MeetingPlace Application Server.</li> <li>• For primary and failover Application Server deployments, all Web Servers within both internal and external clusters must point to the "Shared IP/Hostname" of these servers.</li> <li>• Cisco Unified MeetingPlace Web Servers can be deployed in geographically disbursed data centers with a network requirement of ~150 ms RRT over the network to the primary Application Server.</li> <li>• You can attach a maximum of 16 Cisco MCSs running Cisco Unified MeetingPlace applications (for example, Cisco Unified MeetingPlace Web Conferencing, Cisco Unified MeetingPlace for Microsoft Outlook, etc.) to the same Cisco Unified MeetingPlace Application Server.</li> </ul>
Internal Web Server Cluster	If you have an internal Web Server cluster in your load balancing configuration, ensure the following:

	<ul style="list-style-type: none"> <li>• All Web Servers within the internal cluster must share a single SQL Server database.</li> <li>• The SQL Server 2000 local software is provided with the Cisco Unified MeetingPlace Web Server installation CD and will install locally. Customer can also provide the hardware and software for a "remote" SQL 2000 or SQL 2005 system. <ul style="list-style-type: none"> <li><b>Note:</b> All SQL Servers are required to be local to the Cisco Unified MeetingPlace server that is handling the replication. SQL Servers can be "remote" in that they are installed on separate machines within a local data center. However, Release 7.1 does not support attaching to an SQL Server in a remote data center.</li> </ul> </li> <li>• All Web Servers within the internal cluster must have access to a shared storage location for attachments.</li> <li>• Install Cisco Unified MeetingPlace Web Conferencing on each Web Server sequentially (internal Web Server 1, internal Web Server 2, and so forth) with the following option: for Server Location, choose Internal (Full Access).</li> <li>• Make sure that all Web Servers within the internal cluster have the same deployment settings and configurations (for example, the same Replication Service and Audio Service parameters).</li> </ul>
External Web Server Cluster	<p>If you have an external Web Server cluster in your load balancing configuration, ensure the following:</p> <ul style="list-style-type: none"> <li>• All Web Servers within the external cluster must share a single SQL Server database.</li> <li>• The SQL Server 2000 local software is provided with the Cisco Unified MeetingPlace Web Server installation CD and will install locally. Customer can also provide the hardware and software for a remote SQL 2000 or SQL 2005 system. The remote SQL Server may be installed on your internal network (TCP port access through the firewall must be opened) or in your DMZ network with the Cisco Unified MeetingPlace Web Server or cluster. <ul style="list-style-type: none"> <li><b>Notes:</b> Make sure that the internal cluster and external cluster use different SQL Server databases.</li> <li>All SQL Servers are required to be local to the Cisco Unified MeetingPlace server that is handling the replication. SQL Servers can be "remote" in that they are installed on separate machines within a local data center. However, Release 7.1 does not support attaching to an SQL Server in a remote data center.</li> </ul> </li> <li>• All Web Servers within the external cluster must have access to a shared storage location (for attachments).</li> <li>• Install Cisco Unified MeetingPlace Web Conferencing on each Web Server sequentially (external Web Server 1, external Web Server 2 and so forth) with the following option: for Server Location, choose External (Limited Access).</li> <li>• Make sure that all Web Servers within the external cluster have the same deployment settings and configurations (for example, the same Replication Service and Audio Service parameters).</li> </ul>

Mixed Cluster	<p>A mixed cluster has at least one internal cluster and one external cluster. If you have a mixed cluster in your load balancing configuration, ensure the following:</p> <ul style="list-style-type: none"> <li>• All requirements for internal Web Server clusters and external Web Server clusters are met.</li> <li>• The database of the internal cluster and the database of the external cluster must contain identical system and site Globally Unique Identifiers (GUIDs).</li> <li>• You have configured the redirection from the internal cluster to the external cluster.</li> </ul>
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## Segmented Meeting Access (SMA) Requirements

Cisco Unified MeetingPlace Web Conferencing supports Segmented Meeting Access (SMA) deployments for external access.

Component	Requirement
Hardware	<p>Two single Cisco MCSs or clusters of Cisco MCSs (in the case of load balancing):</p> <ul style="list-style-type: none"> <li>• One Web Server (or cluster of Web Servers) deployed inside the private corporate network functioning as <i>internal</i> Web Servers.</li> <li>• One Web Server (or cluster of Web Servers) deployed in a network segment, such as a DMZ, functioning as <i>external</i> Web Servers.</li> </ul>
Software	<ul style="list-style-type: none"> <li>• On internal Web Servers, Cisco Unified MeetingPlace Web Conferencing Release 7.1 installed with the "Internal (Full Access)" server location option.</li> <li>• On external Web Servers, Cisco Unified MeetingPlace Web Conferencing Release 7.1 installed with the "External (Limited Access)" server location option.</li> </ul>
DNS Configuration	<ul style="list-style-type: none"> <li>• For segmented DNS, the same host name must resolve to the internal Web Server on the internal DNS and resolve to the external Web Server on the external DNS.</li> <li>• The internal host names and IP addresses are accessible only from the internal network.</li> <li>• The external host names or IP addresses are accessible from both the internal network and the Internet.</li> </ul>
Additional Requirements	<ul style="list-style-type: none"> <li>• Synchronized Globally Unique Identifiers (GUIDs) between internal and external Web Servers. The database of the internal Web Server and the database of the external Web Server must contain identical GUIDs.</li> </ul>

**Related Information**

- For more information about SMA, see [About Web Deployment Options for Cisco Unified MeetingPlace Release 7.1.](#)
- For information on installing an SMA configuration, see [How to Install Cisco Unified MeetingPlace Web Conferencing for a Segmented Meeting Access \(SMA\) Deployment.](#)
- For information on configuring your system for SMA, see the *Configuration Guide for Cisco Unified MeetingPlace Release 7.1* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.htm](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.htm)