



# System Requirements for Cisco Unified MeetingPlace Release 5.4

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This document lists requirements and other necessary information for installing a Cisco Unified MeetingPlace Release 5.4 system. Each of the following sections contains information for the specific Cisco Unified MeetingPlace component:

- [Requirements for Cisco Unified MeetingPlace Audio Server 5.4, page 1](#)
- [Requirements for Cisco Unified MeetingPlace Directory Services 5.4, page 2](#)
- [Requirements for Cisco Unified MeetingPlace for IBM Lotus Notes 5.4, page 5](#)
- [Requirements for Cisco Unified MeetingPlace for Microsoft Outlook 5.4, page 8](#)
- [Requirements for Cisco Unified MeetingPlace SMTP E-Mail Gateway 5.4, page 12](#)
- [Requirements for Cisco Unified MeetingPlace Video Integration 5.4, page 13](#)
- [Requirements for Cisco Unified MeetingPlace Web Conferencing 5.4, page 17](#)

## Requirements for Cisco Unified MeetingPlace Audio Server 5.4

The Cisco Unified MeetingPlace Audio Server system requires a Cisco Unified MeetingPlace 8100 series server.

For a new Release 5.4 system, Cisco Unified MeetingPlace Audio Server software is installed in manufacturing, so you do not need to install Audio Server software.

For upgrades, you must upgrade the software to Audio Server Release 5.4 yourself.

For versions of Cisco Unified MeetingPlace components that are supported with a given version of Audio Server, see the *Compatibility Matrix: Cisco Unified MeetingPlace Components* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html).

For environmental requirements and hardware specifications for the Cisco Unified MeetingPlace 8100 series server, see the “Preparing to Install the Cisco Unified MeetingPlace 8100 Series Server” chapter of the *Installation and Upgrade Guide for Cisco Unified MeetingPlace Audio Server Release 5.4* 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).



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**Note**

The Cisco Unified MeetingPlace Audio Server must be connected to a network switch port that is configured for auto-negotiate. Cisco Unified MeetingPlace gateways must be connected to network switch ports that are configured for 100 MB Full Duplex.

**Caution**

If the Cisco Unified MeetingPlace Audio Server connects to Cisco Unified CallManager through a single network interface card (NIC), you must enter only one IP address for the NIC in the Cisco Unified MeetingPlace H.323/SIP IP Gateway. Otherwise, outdials from the Cisco Unified MeetingPlace web interface may fail.

## Requirements for Cisco Unified MeetingPlace Directory Services 5.4

This section contains the following information:

- [Directory Services Requirements, page 2](#)
- [Cisco MCS Requirements, page 3](#)

### Directory Services Requirements

**Table 1** Requirements for Cisco Unified MeetingPlace Directory Services Release 5.4

Component	Requirement
New installation of Directory Services 5.4	<p><b>Hardware</b></p> <p>You must install Directory Services on a Cisco Media Convergence Server (MCS).</p> <p><b>Note</b> You can install Directory Services on a Cisco MCS 7835 or Cisco MCS 7845 with other Cisco Unified MeetingPlace integration applications. For more information, see the “Compatibility Information” section in the applicable version of <i>Release Notes for Cisco Unified MeetingPlace Directory Services</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_release_notes_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_release_notes_list.html</a>.</p> <p><b>Operating System</b></p> <p>Cisco MCS OS 2000.2.6 (SR 4) or later.</p> <p><b>Software</b></p> <p>Supported version of Cisco Unified MeetingPlace Directory Services. Refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>

**Table 1** Requirements for Cisco Unified MeetingPlace Directory Services Release 5.4 (continued)

Component	Requirement
Upgrade installation of Directory Services 5.4	<p><b>Hardware</b></p> <p>You must be using either a supported Cisco MCS or the exact HP or IBM equivalent.</p> <p><b>Note</b> If you do are not using a supported Cisco MCS or a legacy HP or IBM equivalent, you must install Release 5.4 as a new installation on a supported Cisco MCS. For information on Cisco MCS specifications, go to <a href="http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html">http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html</a>.</p> <p><b>Operating System</b></p> <p>Windows 2000 Server (SP 4).</p> <p><b>Software</b></p> <p>Supported version of Cisco Unified MeetingPlace Directory Services. Refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p> <p><b>Note</b> For additional information about upgrading to Directory Services 5.4, refer to the “Upgrading to Cisco Unified MeetingPlace Directory Services” chapter of the <i>Administration Guide for Cisco Unified MeetingPlace Directory Services, Release 5.4</i>.</p>
Cisco Unified MeetingPlace Audio Server	<p>Cisco Unified MeetingPlace Audio Server Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>
Directory servers	<p>You must have one of the following directory servers to use Directory Services 5.4:</p> <ul style="list-style-type: none"> <li>• Microsoft Active Directory 2000</li> <li>• Microsoft Active Directory 2003</li> <li>• Netscape Directory Server Version 4.x</li> <li>• iPlanet Directory Server Version 5.x</li> <li>• SunONE Directory Server Version 5.x</li> <li>• Cisco CallManager 3.3.x</li> <li>• Cisco Unified CallManager 4.0(x)</li> <li>• Cisco Unified CallManager 4.1(x)</li> <li>• Cisco Unified CallManager 4.2(x)</li> <li>• Cisco Unified CallManager 5.0(x)</li> </ul>

## Cisco MCS Requirements

For more information about Cisco MCS specifications, go to <http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html>.

This section contains the following information:

- [Cisco MCS 7835, page 4](#)
- [Cisco MCS 7845, page 4](#)

## Cisco MCS 7835

- For systems with up to 480 voice user licenses.
- Supports up to 50 web-conferencing user licenses.
- Deployments with fewer than 50 web-conferencing user licenses can run web conferencing on the Cisco MCS server with bundled software and other options.

## Cisco MCS 7845

- For systems with more than 480 voice user licenses.
- Supports up to 200 web-conferencing user licenses per server.
- If you have more than 50 web-conferencing user licenses, move the Cisco Unified MeetingPlace integration applications to a Cisco MCS 7845 that is dedicated to web conferencing.
- Add a dedicated Cisco MCS 7845 for each additional 200 web-conferencing user licenses.

When you install Cisco Unified MeetingPlace Directory Services Release 5.4, the following restrictions apply:

- If the number of records that you expect to synchronize by using Directory Services 5.4 exceeds 10,000, then you must install Directory Services 5.4 on a dedicated Cisco MCS server with hardware specifications that meet or exceed a Cisco MCS 7835.
- You must make a reasonable estimate of the number of records that you expect to synchronize by using Directory Services 5.4. The number of entries that you synchronize depends on your corporate directory size, as well as the filtering and synchronization rules that you configure in Directory Services 5.4.




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**Note** 10,000 records is an approximate count; use a dedicated server for Directory Services 5.4 if you expect Directory Services 5.4 to synchronize approximately 10,000 records or more.

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When you install Directory Services 5.4 with other Cisco Unified MeetingPlace integration applications, the following restrictions apply:

- When the number of voice user licenses is fewer than or equal to 480, the minimum supported hardware for Cisco Unified MeetingPlace applications is a Cisco MCS 7835.
- When the number of voice user licenses is more than 480, the minimum supported hardware for Cisco Unified MeetingPlace applications is a Cisco MCS 7845.



**Note**

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To determine whether there are additional restrictions for installing Directory Services 5.4 with a specific Cisco Unified MeetingPlace integration application, see the applicable section in this document.

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# Requirements for Cisco Unified MeetingPlace for IBM Lotus Notes 5.4

New installations of Release 5.4 require a Cisco Media Convergence Server (MCS) dedicated to Cisco Unified MeetingPlace applications. Hardware configuration is based on the number of voice and web-conferencing user licenses (ports) on your system.

When reviewing this section, note the following considerations:

- You must have installed Cisco Unified MeetingPlace Web Conferencing Release 5.4 on the machine before installing Cisco Unified MeetingPlace for Lotus Notes Release 5.4.
- You must install Cisco Unified MeetingPlace for Lotus Notes Release 5.4 in the same directory as Cisco Unified MeetingPlace Web Conferencing. (For example, if you install Web Conferencing in C:\Program Files\Cisco Systems, also install Cisco Unified MeetingPlace for Lotus Notes in the Cisco Systems directory.)

This section contains the following information:

- [Cisco Unified MeetingPlace for Lotus Notes Requirements, page 6](#)
- [Segmented Meeting Access Requirements, page 7](#)
- [WebConnect Requirements, page 7](#)
- [End-User Requirements, page 7](#)

# Cisco Unified MeetingPlace for Lotus Notes Requirements

**Table 2** Requirements for Cisco Unified MeetingPlace for Lotus Notes 5.4

Component	Requirement
Integration server machine (This is the same machine on which you installed Cisco Unified MeetingPlace Web Conferencing 5.4.)	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>A Cisco Media Convergence Server (MCS), or the exact equivalent from HP or IBM, that is dedicated to Cisco Unified MeetingPlace applications. The number of MCSes that you require depends on the number of voice and web-conferencing user licenses (ports) on your Cisco Unified MeetingPlace system.</li> </ul> <p><b>Note</b> For information about the Cisco MCS, go to <a href="http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/index.html">http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/index.html</a>.</p> <p>Cisco MCS 7835H-3.0-IPC1 or 7835I-3.0-IPC1.</p> <ul style="list-style-type: none"> <li>For systems up to 480 voice user licenses.</li> <li>Supports up to 50 web-conferencing user licenses.</li> </ul> <p>Cisco MCS 7845H-3.0-IPC1.</p> <ul style="list-style-type: none"> <li>For systems up to 1,152 voice user licenses.</li> <li>Supports up to 200 web-conferencing user licenses per server.</li> <li>If you have more than 50 web-conferencing user licenses, move the Cisco Unified MeetingPlace integrations (for example, Cisco Unified MeetingPlace for Outlook, SMTP E-Mail Gateway) to an MCS 7845 that is dedicated to web conferencing.</li> </ul> <ul style="list-style-type: none"> <li>Add a dedicated MCS 7845 for each additional 200 web-conferencing user licenses.</li> </ul> <p><b>Operating System</b></p> <p>Cisco MCS OS 2000.2.6 (SR 4) or later.</p> <p><b>Software</b></p> <ul style="list-style-type: none"> <li>Supported version of Cisco Unified MeetingPlace Web Conferencing installed and running. Refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>. (Release 5.4 supports the Web Conferencing version 4.2.7, 4.3, and 5.3 click-to-attend links.)</li> <li>Lotus Notes client version 6.03, 6.04, 6.05, 6.52, 6.53, 6.54, 6.55, or 7.01.</li> </ul> <p><b>Other</b></p> <ul style="list-style-type: none"> <li>Microsoft Internet Information Server (IIS) version 5.0. Microsoft IIS 5.0 is installed and configured on the Cisco MCS when the operating system is installed.</li> <li>Lotus Notes template 6.03, 6.04, 6.05, 6.52, 6.53, 6.54, 6.55, or 7.01.</li> </ul>
Lotus Domino server	<p>Domino version 6.0x, or 6.5x, or 7.0x.</p> <p><b>Note</b> Domino server and Cisco Unified MeetingPlace for Lotus Notes 5.4 must reside on separate machines. Domino must run on a Windows machine.</p>

**Table 2** Requirements for Cisco Unified MeetingPlace for Lotus Notes 5.4 (continued)

Component	Requirement
Audio Server	<p><b>Hardware</b></p> <p>Cisco Unified MeetingPlace 8112 server or Cisco Unified MeetingPlace 8106 server.</p> <p><b>Software</b></p> <p>Cisco Unified MeetingPlace Audio Server Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p> <p><b>Other</b></p> <ul style="list-style-type: none"> <li>• Access ports (voice).</li> <li>• Cisco Unified MeetingPlace WebPublisher Option Key.</li> <li>• Cisco Unified MeetingPlace Data Conferencing Option Key (required for application sharing and presentations).</li> <li>• Cisco MeetingNotes Data Option Key (required for presentations and attachments).</li> <li>• Cisco MeetingNotes Voice Option Key (required for meeting recordings).</li> <li>• Cisco Unified MeetingPlace Video Integration Option Key (required for video conferencing).</li> </ul>

## Segmented Meeting Access Requirements

Release 5.4 supports two segmented meeting access (SMA) deployments for external access: Segmented Meeting Access - 1 Server (SMA-1S) and Segmented Meeting Access - 2 Server (SMA-2S).

For additional system requirements, see the “Requirements for Cisco Unified MeetingPlace Web Conferencing 5.4” section on page 17.

For additional information about SMA deployments, see the “Configuring External Access to Cisco Unified MeetingPlace Web Conferencing” chapter of the *Configuration Guide for Cisco Unified MeetingPlace Web Conferencing* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_installation\\_and\\_configuration\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_installation_and_configuration_guides_list.html).

## WebConnect Requirements

WebConnect provides seamless integration between multiple internal and external web-conferencing servers through a single URL.

For additional system requirements, see the “Requirements for Cisco Unified MeetingPlace Web Conferencing 5.4” section on page 17.

## End-User Requirements

Release 5.4 is compatible with third-party environments as indicated in Table 3. Service packs (SP) listed are required minimums; service packs later than the ones listed are assumed to work unless documented otherwise.

**Table 3** End-User Requirements for Cisco Unified MeetingPlace for Lotus Notes 5.4

Operating System	Requirements
Windows	<ul style="list-style-type: none"> <li>• Windows ME, Windows 2000 Professional, Windows 2000 Server Edition (SP 2), Windows 2000 Advanced Server Edition (SP 2), or Windows XP operating system.</li> <li>• Lotus Notes client version 5.0.13, 6.0.3, 6.0.4, or 6.5.2.</li> <li>• Lotus Notes templates 5.0.13, 6.0.3, 6.0.4, or 6.5.2. <ul style="list-style-type: none"> <li>– Users of Domino server R5 require the Lotus Notes version 5.0.13 client and template.</li> <li>– Users of Domino server R6 require the Lotus Notes version 6.0.3 or 6.0.4 client and template.</li> <li>– Users of Domino server R6.5 require the Lotus Notes version 6.5.2 client and template.</li> </ul> </li> </ul>

## Requirements for Cisco Unified MeetingPlace for Microsoft Outlook 5.4

This section contains the following information:

- [Cisco Unified MeetingPlace for Outlook Requirements, page 8](#)
- [Capacity Information, page 11](#)

### Cisco Unified MeetingPlace for Outlook Requirements

**Table 4** Requirements for Cisco Unified MeetingPlace for Outlook 5.4

System	Requirements
Microsoft Exchange Server	<ul style="list-style-type: none"> <li>• Exchange 2000 Server (Service Pack 2) or Exchange Server 2003, installed and running.</li> <li>• A Windows user account that has an associated Exchange mailbox. This will be the Exchange mailbox for Cisco Unified MeetingPlace for Outlook. Note the following considerations: <ul style="list-style-type: none"> <li>– The Windows user account must have Local Administrator privileges, and the username and password for the account must match the username and password of the Cisco Unified MeetingPlace for Outlook mailbox. (Refer to the <i>Administration Guide for Cisco Unified MeetingPlace for Outlook</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_maintenance_guides_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_maintenance_guides_list.html</a> for instructions about configuring the default Outlook mailbox.) Log in with this account to install Cisco Unified MeetingPlace for Outlook.</li> <li>– The logged-in user should have access to the default Outlook profile.</li> <li>– This Exchange mailbox must be configured before installing Cisco Unified MeetingPlace for Outlook.</li> <li>– The Exchange server and the Cisco Unified MeetingPlace for Outlook service component must reside on separate systems.</li> </ul> </li> </ul>



**Table 4** Requirements for Cisco Unified MeetingPlace for Outlook 5.4 (continued)

System	Requirements
Cisco Unified MeetingPlace 8100 series Audio Server	<ul style="list-style-type: none"> <li>• Cisco Unified MeetingPlace Audio Server Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</li> <li>• Audio Server must be installed and running with the Calendar and Notification option keys enabled. (For information on enabling the option keys, refer to the <i>Administration Guide for Cisco Unified MeetingPlace for Outlook, Release 5.4</i>.)</li> <li>• If there are multiple Cisco Unified MeetingPlace servers, each must have its own Cisco Unified MeetingPlace for Outlook server.</li> </ul>
Windows server (hardware requirements)	<ul style="list-style-type: none"> <li>• Cisco Unified MeetingPlace for Outlook must not be installed on a domain controller.</li> <li>• Cisco Security Agent is not supported with Cisco Unified MeetingPlace for Outlook and must not be installed on this server.</li> <li>• A TCP/IP connection to the Cisco Unified MeetingPlace Audio Server is required.</li> <li>• For new installations of Cisco Unified MeetingPlace for Outlook, one of the following servers running operating system version 2000.2.7 or later is required: <ul style="list-style-type: none"> <li>– Cisco MCS-7835H-3.0-IPC1</li> <li>– MCS-7835I-3.0-IPC1</li> <li>– MCS-7845H-3.0-IPC1</li> </ul> </li> </ul> <p>If Cisco Unified MeetingPlace for Outlook will be installed on a separate server to increase capacity, a second server matching the above description is required.</p> <ul style="list-style-type: none"> <li>• For upgrades from older versions of Cisco Unified MeetingPlace for Outlook: <ul style="list-style-type: none"> <li>– Deployments involving new servers must use Cisco MCS servers.</li> <li>– For compatibility with future Cisco Unified MeetingPlace releases, we recommend that new installations be installed on a Cisco MCS server.</li> <li>– Upgrade customers should ensure that their servers are exact equivalents to HP or IBM, at the level of at least a Cisco MCS 7835 server. If the server also hosts Cisco Unified MeetingPlace Web Conferencing with more than 50 licenses, then the performance specifications should be equivalent to those of a Cisco MCS 7845 server.</li> </ul> </li> </ul>

**Table 4** Requirements for Cisco Unified MeetingPlace for Outlook 5.4 (continued)

System	Requirements
<p>Windows server software requirements for all installations</p> <p>(See also the “<a href="#">Windows server software requirements for new installations only</a>” and “<a href="#">Windows server software requirements for upgrades only</a>” rows, as applicable.)</p>	<ul style="list-style-type: none"> <li>• For full functionality or for Client Services only (but not for notification services), on the Cisco MCS or Microsoft Windows server, Cisco Unified MeetingPlace Web Conferencing Release 5.4.</li> <li>• Supported version of Web Conferencing must be installed as an Internal (full access) installation and must be running as the primary Cisco Unified MeetingPlace web server. Refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</li> <li>• One of the following Microsoft Outlook clients installed and configured to log in to the Exchange mailbox:                         <ul style="list-style-type: none"> <li>– Outlook 2003</li> <li>– Outlook 2000 (Service Release 1 and Service Pack 3)</li> </ul> <p>Collaboration Data Objects (CDO) must be installed. CDO must be selected as an option during setup; it is not loaded by default.</p> </li> <li>• The default mail client on this computer must be set to Outlook.</li> <li>• The Outlook client must be completely installed to the local drive. Network installations are not supported.</li> <li>• Cisco Unified MeetingPlace for Outlook does not support “thin clients” (Citrix or Terminal Server).</li> <li>• The Windows login must be identical to the login specified in the Cisco Unified MeetingPlace for Outlook service.</li> <li>• The Windows server and the Exchange Server should belong to the same domain unless they have a trust relationship between them.</li> <li>• For auto-authentication with directory services, Cisco Unified MeetingPlace Directory Services Release 5.4 must be installed with the Network Credentials field populated. (For more information on auto-authentication, refer to information about the Logins tab in the ConfigClient utility in the <i>Administration Guide for Cisco Unified MeetingPlace for Outlook</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_maintenance_guides_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_maintenance_guides_list.html</a>.)</li> </ul> <p>Cisco Unified MeetingPlace user names are case sensitive, and we recommend that all logins be created lowercase.</p>
<p>Windows server software requirements for new installations only</p> <p>(See also the “<a href="#">Windows server software requirements for all installations</a>” row.)</p>	<ul style="list-style-type: none"> <li>• The Cisco Systems version of Windows 2000 Server operating system, version 2000.2.7 or later. (For installation and configuration instructions for the MCS server operating system, refer to the <i>Administration Guide for Cisco Unified MeetingPlace for Outlook</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_maintenance_guides_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_maintenance_guides_list.html</a>.)</li> </ul> <p>Apply only operating system updates and patches as provided by Cisco Systems. Updates taken directly from Microsoft and applied to Cisco MCS servers are not supported because they adversely affect the operation of the servers.</p>

**Table 4** Requirements for Cisco Unified MeetingPlace for Outlook 5.4 (continued)

System	Requirements
Windows server software requirements for upgrades only (See also the <a href="#">“Windows server software requirements for all installations”</a> row.)	<ul style="list-style-type: none"> <li>• Microsoft Windows 2000 Server edition or Advanced Server edition (each with Service Pack 2 or later), or Windows Server 2003 Enterprise edition.</li> <li>• NT File System (NTFS) with more than 2.5 GB free space available.</li> <li>• Microsoft IIS 5.0</li> </ul>
Network requirements	<p>For the Windows server to communicate with the Cisco Unified MeetingPlace Audio Server, the following requirements must be met:</p> <ul style="list-style-type: none"> <li>• In a networked PCI environment, the Windows server must be able to open a TCP connection on port 5003 when connecting to the primary Cisco Unified MeetingPlace Audio Server, and on port 5005 when connecting to each additional Audio Server.</li> <li>• In a standalone PCI or 8100 series environment, the Windows server must be able to open a TCP connection on ports 5003 and 5005 when connecting to the primary Cisco Unified MeetingPlace Audio Server.</li> <li>• When communicating with the Windows server, the IP address of the Cisco Unified MeetingPlace Audio Server must not be translated using a network address translation scheme.</li> <li>• Connectivity between the Windows server and its host Cisco Unified MeetingPlace Audio Server must be high quality and not subject to interruptions caused by traffic congestion. Any time the round-trip latency increases past 100 ms or there is more than 1 percent packet loss, a noticeable reduction in service quality can be expected.</li> </ul>
End user system	<ul style="list-style-type: none"> <li>• Microsoft Windows ME, Windows 2000 Professional, Windows 2000 SE with Service Pack 2, Windows 2000 AS with Service Pack 2, Windows XP, or Windows Server 2003.</li> <li>• An HTTP connection to Cisco Unified MeetingPlace for Outlook.</li> <li>• Microsoft Outlook 2000 (SR 1), XP, or 2003.</li> <li>• Microsoft Outlook 98 (with Archive Patch), 2000 (SR 1), XP, or 2003.</li> <li>• CPU, hard-disk space, and RAM that meet the requirements for end users of Microsoft Outlook and Cisco Unified MeetingPlace Web Conferencing.</li> </ul>

## Capacity Information

For a single Cisco Unified MeetingPlace Audio Server operating at full capacity, one Cisco Unified MeetingPlace for Outlook server is sufficient.

Cisco Unified MeetingPlace for Outlook running on an MCS 7845 can support approximately 2,700 to 5,400 end-user requests per hour. A request occurs each time a user accesses a calendar appointment that involves Cisco Unified MeetingPlace for Outlook; that is, when a user opens an appointment that is associated with a Cisco Unified MeetingPlace meeting or clicks the MeetingPlace tab in an appointment. For planning purposes, you should calculate about two requests per hour per user as heavy usage.

If usage exceeds the guidelines above, users may experience slower performance.

If you expect to use the Cisco Unified MeetingPlace Web Conferencing server to its published maximum capacity, you should install Cisco Unified MeetingPlace for Outlook on a separate server. Otherwise, install Cisco Unified MeetingPlace for Outlook on the same server as Cisco Unified MeetingPlace Web Conferencing.

## Requirements for Cisco Unified MeetingPlace SMTP E-Mail Gateway 5.4

New installations of Cisco Unified MeetingPlace SMTP E-Mail Gateway Release 5.4 require a Cisco Media Convergence Server (MCS) dedicated to Cisco Unified MeetingPlace applications. Hardware configuration is based on the number of voice and web-conferencing user licenses (ports) on your system.

**Table 5** Requirements for Cisco Unified MeetingPlace SMTP E-Mail Gateway 5.4

System	Requirement
Cisco Media Convergence Server (Cisco MCS)	<p><b>Hardware</b> A Cisco MCS, or the exact equivalent from HP or IBM, that is dedicated to Cisco Unified MeetingPlace applications.</p> <p><b>Version utility</b> Sun Java Runtime Environment (JRE)1.4.2_05</p> <p><b>Operating system</b></p> <ul style="list-style-type: none"> <li>• Cisco MCS OS Image 2000.2.7</li> <li>• Cisco MCS OS Service Release 2000.2.7</li> <li>• Cisco MCS OS Upgrade 2000.2.7</li> </ul>
Network requirements	<ul style="list-style-type: none"> <li>• Microsoft Windows 2000 server or later</li> <li>• Hardware                             <ul style="list-style-type: none"> <li>– 64 MB RAM or better</li> <li>– 15 MB free disk space plus 100 MB of additional space for temporary files such as attachments and notifications</li> <li>– 233 MHz Pentium II processor</li> </ul> </li> <li>• TCP/IP connection to the Cisco Unified MeetingPlace Audio Server using a static IP address</li> </ul>

**Table 5** Requirements for Cisco Unified MeetingPlace SMTP E-Mail Gateway 5.4 (continued)

System	Requirement
Cisco Unified MeetingPlace Audio Server	<p><b>Hardware</b></p> <p>Cisco Unified MeetingPlace 8112 or Cisco Unified MeetingPlace 8106</p> <p><b>Software</b></p> <p>Cisco Unified MeetingPlace Audio Server Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p> <p><b>Other</b></p> <ul style="list-style-type: none"> <li>• Cisco Unified MeetingPlace Notification Option (required for distributing meeting notifications)</li> <li>• Cisco MeetingNotes Data Option (required for distributing meeting attachments)</li> </ul>
Option key	The Cisco Unified MeetingPlace system option must be enabled for your corporate e-mail system. For Microsoft Mail, Microsoft Exchange, and other MAPI-compliant e-mail systems, the option key name is E-Mail Gateway (SMTP).
E-mail system	<ul style="list-style-type: none"> <li>• SMTP-based, supported mail system (such as Microsoft Exchange or IBM Lotus Domino).</li> <li>• If authentication is required on your corporate SMTP e-mail server, create an authorized account on your corporate e-mail system for the Cisco Unified MeetingPlace SMTP E-Mail Gateway to use.</li> <li>• Confirm that you have a personal e-mail account. You will need an e-mail account to test the SMTP E-Mail Gateway.</li> </ul>

## Requirements for Cisco Unified MeetingPlace Video Integration 5.4

This section contains the following information:

- [Cisco Unified MeetingPlace Video Integration Requirements, page 14](#)
- [Video Administration for Cisco Unified MeetingPlace Requirements, page 16](#)

# Cisco Unified MeetingPlace Video Integration Requirements

**Table 6** Requirements for Cisco Unified MeetingPlace Video Integration Release 5.4

Component	Requirements
Cisco MCS hardware and system software	<p>Cisco Unified MeetingPlace Video Integration Release 5.4 runs on the server on which Cisco Unified MeetingPlace Web Conferencing Release 5.4 is installed. (For Web Conferencing hardware requirements, see the “Requirements for Cisco Unified MeetingPlace Web Conferencing 5.4” section on page 17.)</p> <p>There are no additional hardware or operating system requirements for Video Integration.</p>
Cisco Unified MeetingPlace Audio Server (Cisco 8112 or Cisco 8106)	<p>Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>
Cisco Unified MeetingPlace Web Conferencing	<p>Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>
Cisco Unified MeetingPlace for Lotus Notes (Optional)	<p>Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>
Cisco Unified MeetingPlace for Outlook (Optional)	<p>Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>
Cisco Unified MeetingPlace H.323/SIP IP Gateway	<p>Release 5.2.1 or later. For specific version information, see the <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>
Cisco Unified MeetingPlace Directory Services (Optional)	<p>Release 5.4. For specific version information, see the <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</p>

**Table 6** Requirements for Cisco Unified MeetingPlace Video Integration Release 5.4 (continued)

Component	Requirements
Cisco Unified Videoconferencing Multipoint Control Unit (MCU) or Radvision ViaIP MCU	<p><b>Hardware</b></p> <p>Release 4.x platform</p> <ul style="list-style-type: none"> <li>• Cisco Unified Videoconferencing-3511-MCU or -3511-MCU-E</li> <li>• 3544 chassis required for the following (four cards maximum per chassis): <ul style="list-style-type: none"> <li>– Cisco Unified Videoconferencing-3540-MCU-30 Port, -60 Port, or -100 Port</li> <li>– Cisco Unified Videoconferencing-3540-EMP or -3540-EMP3 (optional, required for advanced video features)</li> </ul> </li> </ul> <p>Release 5.x platform</p> <ul style="list-style-type: none"> <li>• Cisco Unified Videoconferencing-3515-MCU-12 Port or -24 Port</li> <li>• 3545 chassis required for the following (four cards maximum per chassis; at least one MCU and one EMP card is required for video conferencing): <ul style="list-style-type: none"> <li>– Cisco Unified Videoconferencing-3545-MCU (96 port audio; each MCU supports up to four EMP cards)</li> <li>– Cisco Unified Videoconferencing-3545-EMP (24 ports video; requires MCU card be present in chassis)</li> </ul> </li> <li>• Any hardware or components that are required to deploy the preceding releases, as specified in the documentation for each release.</li> <li>• Rate Matching Module and Data Conferencing card are not supported. Disable them if they are present.</li> <li>• A transcoder card may be required if you need to support the G.729 codec.</li> </ul> <p><b>Software</b></p> <p>Release 4.0 or later.</p> <p><b>Note</b> Cisco Unified MeetingPlace does not support a mixed environment of both MCU release 4.0 and MCU release 5.0. When using MCU release 4.0, the cascading video meeting feature is not available.</p> <p>If your system uses SCCP video endpoints such as Cisco Unified Video Advantage, the following conditions apply:</p> <ul style="list-style-type: none"> <li>• To view the continuous presence of multiple participants, the Cisco Unified Videoconferencing MCU requires an EMP processor running Release 2.0 or later.</li> <li>• If the Cisco Unified Videoconferencing MCU has only an MP processor, and you choose to support SCCP endpoints, it is not possible to specify a continuous presence layout in the Cisco Unified Videoconferencing MCU. Therefore, all participants, regardless of their endpoint, can see only the active speaker.</li> <li>• An EMP processor is included with release Cisco Unified Videoconferencing-3511-MCU-E.</li> </ul>

**Table 6** Requirements for Cisco Unified MeetingPlace Video Integration Release 5.4 (continued)

Component	Requirements
(Optional) Cisco Unified Videoconferencing PRI Gateway	IPVC-3545-GW4S (4 Serial)
(Optional) Cisco Unified Videoconferencing BRI Gateway	IPVC-3545-GW2P (2 PRI) IPVC-3522-GW4B (4 BRI) IPVC-3527-GW2P (2 PRI) IPVC-3521-GW (4BRI) IPVC-3526-GW (1PRI) IPVC-3540-GW (2PRI)
(Optional) Radvision ViaIP GW-P20 Gateway	Release 2.0.1.12 or later
Cisco IOS gatekeeper	Release not applicable.
H.323 gatekeeper	If you use Cisco Unified CallManager, a Cisco IOS Gatekeeper is required.
Radvision ViaIP ECS (gatekeeper)	
End user system operating system	Windows 98, Windows ME, Windows 2000, or Windows XP
End user desktop video client	<ul style="list-style-type: none"> <li>• The following video endpoints are supported: <ul style="list-style-type: none"> <li>– Any H.323 or SCCP video endpoint that the Cisco Unified Videoconferencing MCU and its associated components are configured to support.</li> <li>– Any ISDN video endpoint and the associated required Cisco Unified Videoconferencing Gateway(s).</li> </ul> </li> <li>• A PC sound card is recommended in order to hear voice prompts.</li> </ul>
Room Based Video System	Any endpoints that are supported by the Cisco IPVC MCU.
(Optional) Cisco Unified CallManager	Release 4.0(x), 4.1(x), 4.2(x), or 5.0(x)

## Video Administration for Cisco Unified MeetingPlace Requirements

Beginning with version 5.4, the Cisco Unified MeetingPlace Video Integration includes and requires the Video Administration for Cisco Unified MeetingPlace subcomponent. You must install and configure the Video Administration for Cisco Unified MeetingPlace software on a separate MCS server before installing Cisco Unified MeetingPlace Video Integration Release 5.4.



**Table 7** Requirements for Video Administration for Cisco Unified MeetingPlace 5.4

Component	Requirements
Hardware	Dedicated 7835 series or 7845 series Cisco MCS server.
Software	<ul style="list-style-type: none"> <li>Video Administration for Cisco Unified MeetingPlace Release 5.4. For specific version information, refer to <i>Compatibility Matrix: Cisco Unified MeetingPlace Components</i> at <a href="http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html</a>.</li> <li>Microsoft SQL Server 2000 must be installed on the Video Administration server. Microsoft SQL Server 2000 Desktop Engine (MSDE) is included with the Video Administration software and can be installed by default.  (Optionally, Microsoft SQL Server 2000 Standard Edition or Microsoft SQL Server 2000 Enterprise Edition can be installed instead of MSDE. Customers must obtain their own software and licenses for Microsoft SQL Server 2000 Standard Edition or Microsoft SQL Server 2000 Enterprise Edition.)</li> <li>Microsoft Internet Explorer version 6.0 is required.</li> </ul>

## Requirements for Cisco Unified MeetingPlace Web Conferencing 5.4

This section contains the following information:

- [Hardware Requirements, page 17](#)
- [Networking Requirements, page 18](#)
- [Software Requirements, page 19](#)
- [Segmented Meeting Access Requirements, page 7](#)
- [Load Balancing Requirements, page 24](#)
- [WebConnect Requirements, page 7](#)
- [End-User Requirements, page 26](#)
- [Upgrade Requirements, page 29](#)

Note that if you have an international, non-US English deployment, see the Cisco Unified MeetingPlace SMTP E-Mail Gateway requirement in the “[Integration Requirements: Cisco Unified MeetingPlace SMTP E-Mail Gateway](#)” section on page 22.

### Hardware Requirements

This section describes the hardware requirements for Cisco Unified MeetingPlace Web Conferencing Release 5.4:

- [Web Server Requirements, page 18](#)
- [Audio Server Requirements, page 18](#)

## Web Server Requirements

The Cisco Unified MeetingPlace Web Conferencing system is a software product loaded onto a hardware server. New installations of Web Conferencing require a Cisco MCS Unified CallManager Appliance (Cisco MCS) that is dedicated to Cisco Unified MeetingPlace applications.

For information about the Cisco MCS, go to <http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/index.html>. (You need your Cisco.com username and password to access this page.)

Table 8 lists supported Cisco 7800 Series Media Convergence Server models. The Cisco MCS server must have a DVD-ROM drive, keyboard, mouse, and monitor.

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

**Table 8** Supported Cisco 7800 Series MCS Models

System	Voice Conferencing Capacity	Web Conferencing Capacity
Cisco MCS 7835H-3.0-IPC1 Cisco MCS 7835I-3.0-IPC1 Cisco MCS-7835-H1-RC1 Cisco MCS-7835-I1-RC1	Up to 480 voice user licenses per server.	Up to 50 web-conferencing user licenses per server.
Cisco MCS 7845H-3.0-IPC1 Cisco MCS-7845-H1-RC1 Cisco MCS-7845-I1-RC1	Up to 1,152 voice user licenses per server.	Up to 200 web-conferencing user licenses per server.  If you have more than 50 web-conferencing user licenses, move your Cisco Unified MeetingPlace applications (for example, Cisco Unified MeetingPlace for Outlook, Cisco Unified MeetingPlace SMTP E-Mail Gateway) to a MCS 7845 that is dedicated to web conferencing.  <b>Note</b> Add a dedicated Cisco MCS 7845 for each additional 200 web-conferencing user licenses.

### Additional Requirements

- NT File System (NTFS) with more than 2.5 GB free space available.
- 700 MB of additional disk space per expected hour of recording over the base level.

## Audio Server Requirements

Cisco Unified MeetingPlace Web Conferencing requires connection to a Cisco Unified MeetingPlace Audio Server system for full functionality. The Audio Server software component must reside on a Cisco Unified MeetingPlace 8112 server or Cisco Unified MeetingPlace 8106 server.

## Networking Requirements

Confirm that the system meets the following requirements so that the web server can communicate with the Cisco Unified MeetingPlace Audio Server system:

- TCP ports 5003 and 5005 are open bidirectional between the web server and Cisco Unified MeetingPlace Audio Server systems (primary server and shadow server, if one exists).

- The Cisco Unified MeetingPlace Audio Server system can initiate a reverse connection to the web server, thus eliminating the need for you to open port 5003 from the web server to the Audio Server. For the reverse connection to be initiated, you must enter the MeetingPlace Server name as a host name instead of an IP address during the Cisco Unified MeetingPlace Web Conferencing installation. You will also have to manually configure this web server unit on the Audio Server.
- The web server has a static IP address.
- Connectivity between the web server and its host Cisco Unified MeetingPlace Audio Server system is of high quality and not subject to interruptions because of traffic congestion. Any time the round-trip latency exceeds 100 ms or there is more than 1 percent packet loss, you should expect a noticeable reduction in service quality.
- The Cisco Unified MeetingPlace Audio Server system must be connected to a network switch port that is configured for auto-negotiate.
- Cisco Unified MeetingPlace gateways must be connected to network switch ports that are configured for 100 MB Full Duplex.

## Software Requirements

This section describes the software requirements for the Cisco Unified MeetingPlace Web Conferencing Release 5.4 system:

- [Web Server Software Requirements, page 19](#)
- [Integration Requirements: Cisco Unified MeetingPlace Audio Server, page 21](#)
- [Integration Requirements: Cisco Unified MeetingPlace for Outlook, page 21](#)
- [Integration Requirements: Cisco Unified MeetingPlace SMTP E-Mail Gateway, page 22](#)
- [Integration Requirements: Jabber Server, page 22](#)
- [\(Optional\) Integration Requirements: Third Party Audio Conversion and Playback, page 22](#)

## Web Server Software Requirements

The Cisco Unified MeetingPlace Web Conferencing software runs on the Cisco MCS operating system. This operating system is included with the application. Web Conferencing Release 5.4 requires Cisco MCS OS 2000.4.2 (SR 2) or later.

### Additional Windows Requirements

- Microsoft Internet Information Server (IIS) 5.0.  
This is installed and configured on the Cisco MCS when the operating system is installed.
- Microsoft PowerPoint 2003 for Presentation mode slide conversion.  
Cisco Unified MeetingPlace Web Conferencing has a built-in slide converter for Presentation mode; however, it may not be able to convert certain PowerPoint pages with 100 percent fidelity. For production systems, we recommend that you always install Microsoft PowerPoint to ensure the best slide-conversion quality.
- All corporate fonts and standard Microsoft fonts, including Microsoft PowerPoint fonts, installed.

**Java Requirements**

- For Web Conferencing version 5.4(70.0), Sun Java Runtime Environment (JRE) 1.4.2\_05. This is included in Web Conferencing 5.4 and installs automatically if a different version of Sun JRE is not detected.



**Note** For Web Conferencing version 5.4(154), Sun JRE 1.4.2\_05 is no longer necessary on the Web Conferencing server. During a fresh installation of the Web Conferencing 5.4(154) software, Sun Java 1.4.2\_05 is not installed.

**SQL Server Requirements—Local (On Box) SQL Installation**

Microsoft SQL Server 2000, Microsoft SQL Server 2000 Desktop Engine (MSDE), and the appropriate level of service packs are included with the Web Conferencing 5.4 installer. Required components will install automatically under the conditions indicated in [Table 9](#) if you choose Local as the SQL Server database location during installation:

**Table 9 Automatic Installation of SQL Server Components**

Cisco Unified MeetingPlace Web Conferencing Release	Component	Installed
Release 5.4	SQL Server 2000 (SP 4)	Installs automatically if you are installing SQL Server locally on a Cisco MCS and if the installer does not detect an earlier release of SQL Server.
	SQL Server 2000 Desktop Engine (MSDE)	Installs automatically if you are a legacy customer installing SQL Server on a legacy non-Cisco MCS Windows server and the installer does not detect a full version of SQL Server.
	SQL Server 2000 Service Pack 4	Installs automatically if the installer detects an earlier release.



- Note**
- MSDE imposes a performance limit of eight simultaneous connections, which could potentially hamper the performance of Cisco Unified MeetingPlace Web Conferencing. Because later releases of Web Conferencing do not support MSDE, we recommend that all Cisco Unified MeetingPlace systems, particularly production systems, consider the use of a fully licensed SQL Server.
  - If you need to manually install SQL Server, you must 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.

**SQL Server Requirements—Remote (Off Box) SQL Installation**

For better performance, install either full SQL or MSDE on a separate server before installing Cisco Unified MeetingPlace Web Conferencing. During the Web Conferencing installation, you specify the SQL Server installation location as Remote.

Customers may choose to deploy more complex remote SQL Server topologies, such as a server farm. To properly operate in a remote SQL configuration, Cisco Unified MeetingPlace Web Conferencing requires an Open DataBase Connectivity (ODBC) Data Source Name (DSN) that points to an installation of SQL Server 2000 with Service Pack 4 or MSDE 2000, with correct permissions to the MPWEB

database. In such a topology, customers are responsible for supporting and ensuring the stability and performance of the remote SQL Server deployment. Any decrease in SQL Server transaction performance or network latency between the Cisco Unified MeetingPlace Web Conferencing server and the remote SQL Server can have a negative impact on Web Conferencing performance up to and including a complete system outage depending on the scale of the slow down. Cisco assumes that the SQL environment is appropriately sized and properly installed by the customer prior to installing Cisco Unified MeetingPlace Web Conferencing, and is monitored and maintained properly after installing Web Conferencing. For more information on database sizing, deployment types, and permissions, refer to *Installation and Upgrade Guide for Cisco Unified MeetingPlace Web Conferencing Release 5.4* 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).

**Note**

- MSDE imposes a performance limit of eight simultaneous connections, which could potentially hamper the performance of Cisco Unified MeetingPlace Web Conferencing. Because later releases of Web Conferencing do not support MSDE, we recommend that all Cisco Unified MeetingPlace systems, particularly production systems, consider the use of a fully licensed SQL Server.
- You must install and configure a remote 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.

## Integration Requirements: Cisco Unified MeetingPlace Audio Server

Cisco Unified MeetingPlace Web Conferencing 5.4 requires Cisco Unified MeetingPlace Audio Server Release 5.4, which must reside on an 8106 or 8112 server. For specific version information, refer to *Compatibility Matrix: Cisco Unified MeetingPlace Components* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html).

### Additional Requirements

- Access ports (voice)
- Cisco Unified MeetingPlace WebPublisher Option Key
- Cisco Unified MeetingPlace Data Conferencing Option Key (required for application sharing and presentations)
- Cisco MeetingNotes Data Option Key (required for presentations and attachments)
- Cisco MeetingNotes Voice Option Key (required for meeting recordings)
- Cisco Unified MeetingPlace Video Integration Option Key (required for video conferencing)

## Integration Requirements: Cisco Unified MeetingPlace for Outlook

Cisco Unified MeetingPlace Web Conferencing 5.4 requires Cisco Unified MeetingPlace for Outlook Release 5.4. For specific version information, refer to *Compatibility Matrix: Cisco Unified MeetingPlace Components* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html).

You must upgrade both Web Conferencing and Cisco Unified MeetingPlace for Outlook at the same time.

## Integration Requirements: Cisco Unified MeetingPlace SMTP E-Mail Gateway

Cisco Unified MeetingPlace Web Conferencing Release 5.4 requires Cisco Unified MeetingPlace SMTP E-Mail Gateway Release 5.4. For specific version information, refer to *Compatibility Matrix: Cisco Unified MeetingPlace Components* at

[http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html).

## Integration Requirements: Jabber Server

Cisco Unified MeetingPlace Web Conferencing Release 5.4 requires Cisco Unified MeetingPlace Jabber Integration 5.4 installed on a Jabber XCP 4.2 server with Sun Java Runtime Environment (JRE) 1.4.2.xx. For specific version information, refer to *Compatibility Matrix: Cisco Unified MeetingPlace Components* at

[http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html).

## (Optional) Integration Requirements: Third Party Audio Conversion and Playback

### Audio Conversion

- A third-party audio service is not required to convert audio files to WAV or WMA format. Cisco Unified MeetingPlace Web Conferencing uses its internal audio service component and bundled encoders to convert audio attachments into these formats.
- XingMP3 encoder is required to convert audio attachments to MP3 format.

### Streamed Playback

- Windows Media Services

## Segmented Meeting Access Requirements

Cisco Unified MeetingPlace Web Conferencing supports two segmented meeting access (SMA) deployments for external access: Segmented Meeting Access - 1 Server (SMA-1S) and Segmented Meeting Access - 2 Server (SMA-2S).

The following requirements are in addition to standard Cisco Unified MeetingPlace Web Conferencing hardware and software system requirements as indicated in the “[Hardware Requirements](#)” section on page 17 and the “[Software Requirements](#)” section on page 19.

- [Segmented Meeting Access - 1 Server Requirements, page 22](#)
- [Segmented Meeting Access - 2 Servers Requirements, page 23](#)

## Segmented Meeting Access - 1 Server Requirements

SMA-1S deployments require additional system requirements. Make sure that your system meets the following requirements before you deploy an SMA-1S configuration.

### Hardware Requirements

- One Cisco MCS with two IP addresses.

### Software Requirements

- Install Cisco Unified MeetingPlace Web Conferencing by using the “Both” server location option.

- Complete additional manual steps to create and configure a second web site.

#### **DNS Configuration Requirements**

- For segmented DNS, the same host name must resolve to the internal web-conferencing server on the internal DNS and resolve to the external web-conferencing server on the external DNS.
- For information on configuring notification templates to accommodate nonsegmented DNS, see the administrator's guide for your particular Cisco Unified MeetingPlace notification application.
- Make sure that the internal host name or IP address is accessible only from the internal network.
- Make sure that the external host name or IP address is accessible from both the internal network and the Internet.

#### **Port Access Requirements**

- Make sure that the following ports are open between the DMZ and the internal network:
  - TCP ports 5003 and 5005 are open bidirectional between the web server and the Cisco Unified MeetingPlace Audio Server systems (primary server and shadow server, if one exists).  
If you configured your network for reverse connection, where your web servers are configured with a MeetingPlace Server host name instead of an IP address, the Audio Server system can initiate a reverse connection to the web server in the DMZ when port 5003 inbound is blocked.
- Make sure that the following ports are open inbound from the Internet to the DMZ:
  - TCP Port 80
  - TCP Port 1627 (strongly recommended for higher performance of the meeting console)
  - TCP Port 443 (if SSL is implemented)
  - TCP Port 1503 (if NetMeeting access is required)

## **Segmented Meeting Access - 2 Servers Requirements**

SMA-2S deployments require additional system requirements. Make sure that you meet the following requirements before you attempt the SMA-2S deployment.

#### **Hardware Requirements**

- Two single Cisco MCSes or clusters of Cisco MCSes (in the case of load balancing)
  - One server or cluster of servers deployed inside the private corporate network functioning as internal web servers.
  - One server or cluster of servers deployed in a network segment, such as a DMZ, functioning as external web servers.

#### **Software Requirements**

- On internal web servers, Cisco Unified MeetingPlace Web Conferencing Release 5.4 installed with the “Internal (Full Access)” server location option.
- On external web servers, Cisco Unified MeetingPlace Web Conferencing Release 5.4 installed with the “External (Limited Access)” server location option.

#### **DNS Configuration Requirements**

- 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.

- For information on configuring notification templates to accommodate nonsegmented DNS, see the administration guide for your particular Cisco Unified MeetingPlace notification application.
- Make sure that the internal host name or IP address is accessible only from the internal network.
- Make sure that the external host name or IP address is accessible from both the internal network and the Internet.

#### Port Access Requirements

- Make sure that the following ports are open between the DMZ and the internal network:
  - TCP ports 5003 and 5005 are open bidirectional between the web server and the Cisco Unified MeetingPlace Audio Server systems (primary server and shadow server, if one exists).

If you configured your network for reverse connection, where your web servers are configured with a MeetingPlace Server hostname instead of an IP address, the Audio Server system can initiate a reverse connection to the web server in the DMZ when port 5003 inbound is blocked.
- Make sure that the following ports are open inbound from the Internet to the DMZ:
  - TCP Port 80
  - TCP Port 1627 (strongly recommended for higher performance of the meeting console)
  - TCP Port 443 (if SSL is implemented)
  - TCP Port 1503 (if NetMeeting access is required)

#### Additional Requirements

- Synchronized GUIDS between Internal and DMZ servers  
The database of the internal server and external server must contain identical GUIDS.

## Load Balancing Requirements

Cisco Unified MeetingPlace Web Conferencing load balancing makes use of an algorithmic formula to evenly distribute web-conferencing requests within clusters of web servers. The following section lists additional requirements for load balancing configurations.

#### Audio Server Requirements

- All web servers within both internal and external clusters must point to the same Cisco Unified MeetingPlace Audio Server system.
- You can attach a maximum of 16 Cisco MCSes running Cisco Unified MeetingPlace applications (for example, Cisco Unified MeetingPlace Web Conferencing, Cisco Unified MeetingPlace SMTP E-Mail Gateway) to the same Cisco Unified MeetingPlace Audio Server system.

#### Internal Web Server Cluster Requirements

If you have an internal web server cluster in your load balancing configuration, ensure the following:

- All web servers within the internal cluster must share a single SQL Server database.
- All web servers within the internal cluster must have access to a shared storage location for attachments.
- Install Cisco Unified MeetingPlace Web Conferencing on each server sequentially (internal web server 1, internal web server 2, and so forth) with the following option: for Server Location, choose Internal (Full Access).



- 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).

#### External Web Server Cluster Requirements

If you have an external web server cluster in your load balancing configuration, ensure the following:

- All web servers within the external cluster must share a single SQL Server database.




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**Note** Make sure the internal cluster and external cluster use different databases.

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- All web servers within the external cluster must have access to a shared storage location (for attachments).
- Install Cisco Unified MeetingPlace Web Conferencing on each server sequentially (external web server 1, external web server 2 and so forth) with the following option: for Server Location, choose External (Limited Access).
- 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).

#### Mixed Cluster Requirements

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:

- All requirements for internal web server clusters and external web server clusters are met.
- The internal cluster's database and external cluster's database must contain identical GUIDS.

## Load Balancing in Release 5.4

If you have Cisco Unified MeetingPlace load balancing configured and plan to upgrade to Cisco Unified MeetingPlace Web Conferencing Release 5.4, be aware that when configuring services for your load balancing deployment, Release 5.4 requires that you configure the Cisco Unified MeetingPlace Web Conferencing service to log on as Administrator.

If you do not configure the Cisco Unified MeetingPlace Web Conferencing service to log on as Administrator, web conferencing will not start.

## WebConnect Requirements

WebConnect is used to make web scheduling and meeting attendance seamless across multiple Cisco Unified MeetingPlace systems. Make sure that your system meets the following requirements before you configure WebConnect.




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**Note** We do not support the WebConnect feature on UNIX systems.

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**Cisco Unified MeetingPlace Audio Server Requirements**

- For Cisco Unified MeetingPlace Web Conferencing Release 5.4: Cisco Unified MeetingPlace Audio Server Release 5.4. For specific version information, refer to *Compatibility Matrix: Cisco Unified MeetingPlace Components* at [http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/sw/ps5664/ps5669/products_device_support_tables_list.html).
- Cisco Unified MeetingPlace MeetingTime Release 5.4 with the following settings:
  - User profile > Sched only on scheduling home server? > No
  - User profile > Sched only on NS home site? > No
  - System Parameters > Allow Vanity Mtg IDs? > Yes

**SQL Server Requirements**

- For Cisco Unified MeetingPlace Web Conferencing Release 5.4: Microsoft SQL Server 2000 (SP 4) or a later release.

The service pack is included with Cisco Unified MeetingPlace Web Conferencing and installs automatically if you are installing SQL Server locally on a Cisco MCS and the installer does not detect an earlier release of SQL Server. If the installer does detect an earlier release, it will upgrade to the appropriate service pack level.

The full version of SQL Server enables you to find meetings on one site from another site.

**Additional Requirements**

- Make sure that all sites within the Cisco Unified MeetingPlace Image are running the same build-level release of Cisco Unified MeetingPlace Audio Server.
- Make sure that all systems within a site have the same system options and notification vehicles. For example, MeetingNotes, Cisco Unified MeetingPlace SMTP E-Mail Gateway, Microsoft Outlook.
- For external dedicated sites, make sure that you are using VPN (T1 or Frame Relay).
- For rollover map configurations, make sure that you assign all users to a group.




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**Note** You must assign all groups to a rollover map (even if the rollover map only has one site).

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- You must have Cisco Unified MeetingPlace Directory Services or a similar profile synchronization procedure deployed on a dedicated server.

## End-User Requirements

Make sure that user workstations meet the client requirements in this section, or provide these requirements to your users. All client machines must have separate Internet and telephony access for attending voice and web conferences. The recommended minimum bandwidth is a 56-K modem connection. A lesser connection can slow down web-conferencing performance.

Service packs (SP) listed are required minimums, and service pack releases later than the ones listed are assumed to work unless documented otherwise.

- [Client Requirements: Microsoft Windows, page 27](#)
- [Client Requirements: Apple Mac, page 28](#)
- [Client Requirements: Sun Solaris, page 29](#)

## Client Requirements: Microsoft Windows

### Operating System

- Windows ME
- Windows 2000 Professional
- Windows 2000 Server Edition (SP 4)
- Windows 2000 Advanced Server Edition (SP 2)
- Windows XP
- Windows 2003
- Windows Vista

### Java-enabled Web Browser

Users must have one of the following web browsers running on a supported operating system with the Security level set to Medium or Low. For all supported browsers, Sun Java Runtime Environment (JRE) 1.4.2\_04 is the minimum requirement. However, we recommend JRE 1.4.2\_08 or a later release for security reasons.

- Microsoft Internet Explorer 5.5 with one of the following:
  - Microsoft Java Virtual Machine (JVM) 3309 or a later release.
  - Sun JRE 1.4.2\_04 or a later release—except versions 1.4.2\_10, 1.4.2\_11, and 1.5.0\_06, which have a defect affecting the Web Meeting Console.
- Microsoft Internet Explorer 6.0 with one of the following:
  - Microsoft JVM 3802 or a later release.
  - Sun JRE 1.4.2\_04 or a later release—except versions 1.4.2\_10, 1.4.2\_11, and 1.5.0\_06, which have a defect affecting the Web Meeting Console.
- Microsoft Internet Explorer 7.0 on Windows Vista with Sun JRE 1.5 or a later release (except 1.5.0\_06)
  - Supported without application sharing in Web Conferencing release 5.4(156).
  - Supported with application sharing in Web Conferencing release 5.4(156.1) patch. Users must run the Browser Test and follow the instructions to modify the Trusted Site list in order to perform application sharing.
- Netscape Navigator 8.1, 7.1 with JRE 1.4.2\_04 or a later release—except versions 1.4.2\_10, 1.4.2\_11, and 1.5.0\_06, which have a defect affecting the Web Meeting Console.




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**Note** Netscape Navigator does not support the full meeting console. Instead, users see a basic version of the meeting console that allows them to present, view, annotate, whiteboard, collaborate, enable application sharing options, and chat.

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- Firefox 1.5x with Sun Java 1.5.0\_06x.
- Firefox 2.0 with Sun JRE 1.5 or a later release (except 1.5.0\_06) is supported in Web Conferencing release 5.4(156).

### Requirements for Participating in a Cisco Unified MeetingPlace Web Conference

- The meeting console (included) or a T.120-compliant application.

- (Optional) Audio player that plays WAV, WMA, or MP3 files.

#### Requirements for Using the Polling Pie Chart

To render the polling pie chart correctly, the users must have Adobe Flash 8.0 or later installed.

#### Additional Requirements for Application Sharing by Using the Meeting Console

- System requirements:
  - 200 MHz Pentium II processor
  - 128 MB RAM




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**Note** If you are using Netscape Navigator 7.0 and hosting a meeting with a heavy presentation component, we recommend 256 MB RAM.

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- (Optional, but strongly recommended) TCP port 1627 open from client-to-server on your firewall for direct inbound access.

If this port is not open, the meeting console establishes a slightly slower connection by tunneling through port 80.

#### Additional Requirements for Application Sharing by Using a T.120-Compliant Application

- NetMeeting (release 3.01) or other T.120-compliant application installed.
- TCP port 1503 open on any firewalls between the host and the web server.
- Screen savers disabled.

If you are using Netscape Navigator, you must have the proper NetMeeting MIME type configured on your web browser.

#### Additional Requirements for Video Conferencing

To make sure that your end-user system is set up for video conferencing, refer to the *Administration Guide for Cisco Unified MeetingPlace Video Integration, Release 5.4*.

## Client Requirements: Apple Mac

You can use Apple Mac with either the basic or full meeting console (included with Cisco Unified MeetingPlace Web Conferencing Release 5.4).

#### Requirements to Use the Basic Meeting Console

The basic meeting console offers users a limited set of meeting console functionality. Users can present, view, annotate, whiteboard, collaborate, and chat.

- Mac OS X (10.x)  
Mac OS X 10.3 or later is required to use the Application Sharing feature.
- Netscape Navigator 7.0 with JRE 1.4.2\_08 or a later release, or Apple Safari 1.2 with JRE 1.4.2\_08 or a later release  
Safari 1.2 with JRE 1.4.2\_08 or later is required to use the Application Sharing feature.
- (Optional) Audio player that plays WAV, WMA, or MP3 files.

**Requirements to Use the Full Meeting Console**

The full meeting console provides all basic meeting console functionality plus access to the Participant list, menus, and polling.

- Mac OS X (10.4.4) or later
- Safari 2.0.3 (417.8) with JRE 1.5.0\_06 or later
- (Optional) Audio player that plays WAV, WMA, or MP3 files.

**Requirements for Using the Polling Pie Chart**

To render the polling pie chart correctly, the users must have Adobe Flash 8.0 or later installed.

**Client Requirements: Sun Solaris****Operating System**

Solaris 7 or a later release

**Java-Enabled Web Browser**

Users must have one of the following web browsers running on a supported operating system. For all supported browsers, Sun Java Runtime Environment (JRE) 1.4.2\_04 is the minimum requirement. However, we recommend JRE 1.4.2\_08 or later for security reasons.

- Netscape Navigator 7.0 with JRE 1.4.2\_08 or later
- SunForum 3.1 or later

**Requirements For Participating in a Cisco Unified MeetingPlace Web Conference**

- Basic meeting console (included with Cisco Unified MeetingPlace Web Conferencing Release 5.4) or a T.120-compliant application

The full meeting console, polling, and video-conferencing features are not supported on UNIX systems. However, the basic version of the meeting console allows users to present, view, annotate, whiteboard, collaborate, and chat.

- (Optional) Audio player that plays WAV, WMA, or MP3 files.

**Additional Requirements for Application Sharing in a Cisco Unified MeetingPlace Web Conference**

- SunForum 3.2
- TCP port 1503 open on any firewalls between the host and the web server
- Screen savers disabled

**Note**

Users on UNIX systems cannot host meetings by using the meeting console.

**Requirements for Using the Polling Pie Chart**

To render the polling pie chart correctly, the users must have Adobe Flash 8.0 or later installed.

**Upgrade Requirements**

Upgrading a legacy system to Cisco Unified MeetingPlace Web Conferencing Release 5.4 requires the following:

- Either a supported Cisco MCS or an exact HP or IBM equivalent. For information on Cisco MCS specifications, go to <http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html>.



**Note** If you are not using a HP or IBM exact equivalent, you must install Release 5.4 as a new installation on a supported Cisco MCS. For installation requirements, see the “[Hardware Requirements](#)” section on page 17.

- Windows 2000 Server (SP 4) or Windows Server 2003 Enterprise Edition
- Microsoft Internet Information Server (IIS) 5.0 or 6.0  
Microsoft IIS 6.0 is installed with Windows Server 2003
- SQL Server 2000 (SP 4) or SQL Server (MSDE)(SP 4)
  - Cisco Unified MeetingPlace Web Conferencing requires the SQL Server Processor License option. For more information, see the Microsoft website.
  - We highly recommend that all Cisco Unified MeetingPlace Web Conferencing systems, particularly production systems, consider the use of a fully licensed version of SQL Server 2000. If you are using MSDE, but want to upgrade to full SQL Server, you must install the full SQL Server before you upgrade Cisco Unified MeetingPlace Web Conferencing to Release 5.4.
- Cisco Unified MeetingPlace Web Conferencing Release 5.3 or Release 4.3.0.246.



**Caution**

Do not delete the SQL Server database if you want to maintain your current click-to-attend links, attachments, and meeting recordings. Deleting or rebuilding your current database deletes all this information.

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