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The audio-only deployment supports a maximum of two nodes in an active/standby configuration.

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## Hardware and Software Requirements

Audio-only deployments require the following components:

Component	Requirement
Cisco Unified MeetingPlace Application Server	<p><b>Hardware</b></p> <p>See the <a href="#">Application Server Requirements</a>.</p> <p><b>Software</b></p> <ul style="list-style-type: none"> <li>• Cisco Unified MeetingPlace Application Server Release 8.6/Express Media Server (EMS)</li> <li>• Cisco Security Agent Release 6.0.1.112</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• The Express Media Server is a set of software modules that reside on the Application Server. During installation, you will have the option to choose either the Hardware Media Server or the Express Media Server. For details about the EMS, see the <a href="#">Express Media Server Requirements</a>.</li> <li>• The Cisco Security Agent software is packaged and installed during the Application Server installation. For details, see the "Using Cisco Security Agent (CSA) on the Application Server" in the <i>Configuration Guide for Cisco Unified MeetingPlace Release 8.6</i> at <a href="#">http://www.cisco.com</a></li> </ul>

	<p><a href="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</a></p> <ul style="list-style-type: none"> <li>• The Cisco Unified MeetingPlace integration for Microsoft Outlook scheduling is included on the Server.</li> </ul>
<p>Cisco Unified MeetingPlace Web Server</p> <p><b>Note:</b> This is an optional component based on your deployment requirements.</p>	<p>An internally deployed Cisco Unified MeetingPlace Web Server can be used for the following:</p> <ul style="list-style-type: none"> <li>• Audio or audio/video recordings with optional customer-provided SAN/NAS storage option</li> <li>• Installation of the Cisco Unified MeetingPlace integration for IBM Lotus Notes</li> </ul> <p><b>Note:</b> If you plan to use the MeetingPlace web scheduling interface, see the <a href="#">System Requirements for MeetingPlace-Scheduling Deployments</a> instead.</p> <p><b>Hardware</b></p> <p>See the <a href="#">Web Server Requirements</a>.</p> <p><b>Software</b></p> <ul style="list-style-type: none"> <li>• (Optional) Cisco Security Agent Release 6.0.1.117 for Cisco Unified MeetingPlace</li> <li>• (Optional) Cisco Unified MeetingPlace Web Server Release 8.6</li> </ul>
<p>Cisco Unified Communications Manager</p>	<p><b>Hardware</b></p> <p>Cisco Media Convergence Server (MCS)</p> <p>For information about physically installing the Cisco MCS, see the documentation at this location: <a href="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</a></p> <p><b>Note:</b> Make sure that the specific Cisco MCS model supports the number of SIP sessions that are required by the Cisco Unified MeetingPlace system.</p> <p><b>Software</b></p> <p>Cisco Unified MeetingPlace Release 8.6 supports the following versions of Cisco Unified Communications Manager (CUCM):</p> <ul style="list-style-type: none"> <li>• CUCM 6.1(5), 7.0(2), 7.1(5), 8.0(1), 8.0(2), 8.0(3), 8.5(1), 8.6(1), 8.6(2), 9.0(1), 9.1(2), 10.0(1), 10.5(2), 11.0(1a)</li> <li>• CUCM-SME 7.1(3), 8.0, 8.5</li> </ul>
<p>Hardware Media Server (HMS)</p>	<p>If your deployment requires a HMS, see the <a href="#">Hardware Media Server Requirements</a>.</p>

	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• During installation, you will have the option to choose either the Hardware Media Server or the Media Server. You do not require both.</li> <li>• The Hardware Media Server should be on the same local network segment as the Application S Unified MeetingPlace does not support Hardware Media Server blades that are remotely located.</li> </ul>
Cisco Unified MeetingPlace PhoneView	<p>Cisco Unified MeetingPlace PhoneView is available only to Cisco Unified IP Phones that are registered to Cisco Unified Communications Manager.</p> <p>Cisco Unified MeetingPlace PhoneView is not supported with the following:</p> <ul style="list-style-type: none"> <li>• Cisco Unified CallManager Express</li> <li>• Cisco Unified Communications Manager Express</li> <li>• Cisco Unified MeetingPlace Web Servers with SSL enabled</li> <li>• Cisco Unified MeetingPlace Application Servers with SSL enabled</li> </ul> <p><b>Hardware</b></p> <p>For a list of supported Cisco Unified IP Phones, see <a href="#">Audio Endpoint Compatibility</a>.</p>
Video option	See the <a href="#">Video Requirements</a> .

## License Requirements

This release of Cisco Unified MeetingPlace uses host-based licensing. The system uses an audit mechanism to track the number of users who have created meetings and compare that to the number of licenses that are installed. An alarm is raised when the number of users who create meetings exceeds the number of licenses installed.

If you have no licenses installed the system will allow only a single meeting at a time.

**Note:** If you are completing a Cisco UCS installation under VMware, note that the Cisco Unified MeetingPlace system produces a randomly generated 12-digit "MAC address" that you will require for licensing. To obtain the MAC address, make sure that you install the Meeting Directors first. You can then obtain the randomly generated MAC address and register your license key.

## Failover Requirements

To configure failover, you need two Application Servers with a high-speed network connection of 100Mbps or better between them. Failover configuration requires the following:

- When you configure the Application Server for the Express Media Server, both the primary and secondary failover Express Media Servers must have the same licenses and port distribution.
- The active and standby Application Servers can be on different timezones, but the time must be synchronized between them. This is required to resolve conflicts when the same piece of data is modified simultaneously in both Application Servers.

- To ensure that times are synchronized, we recommend that both Application Servers are synchronized to the same NTP server. If different NTP servers are used, make sure that these NTP servers are high-Stratum servers, that is, stratum-1 or stratum-2, to minimize the chance of an Application Server synchronizing to an inaccurate clock.

**Note:** Directory Service between two Application Servers is not supported in a failover deployment.

## Network Requirements

This section lists the incoming and outgoing ports that are used by the various components of the Cisco Unified MeetingPlace Release 8.6 system. The information refers to Audio-only deployments.

Use these tables to make sure that your firewalls do not block access to Cisco Unified MeetingPlace from users or integrated systems, and to make sure that you do not block communication among the Cisco Unified MeetingPlace components and servers.

The ports that you do *not* need to expose to system administrators or end users are used for local communication between the Cisco Unified MeetingPlace elements or between Cisco Unified MeetingPlace and local services such as Cisco Unified Communications Manager. Such ports should be blocked in the DMZ or external firewall, but should not be blocked between internal components of the Cisco Unified MeetingPlace solution.

**Note:** Signaling between Cisco Unified MeetingPlace and Cisco Unified Communications Manager must be TCP.

## DNS Recommendations

- All FQDNs of meeting director nodes (if applicable), conferencing nodes, and Cisco WebEx nodes are required for DNS resolution between all servers.
- No multiple names to IP addresses.
- Reverse IP lookup is required.
- Classless DNS is not supported.
- CUCM must have DNS enabled to resolve the Cisco Unified MeetingPlace hostnames for the SIP refer commands to be successful.

## Incoming Ports Used in Audio-Only Deployments

Protocol	Source	Destination	Port Type	Ports	Port Usage	Special Requirements
<b>Application Server/Express Media Server</b>						
SSH	Administrator PC	Application Server	TCP	22	Secure access	Expose to system administrators

SNMP	Administrator PC	Application Server	UDP	161	SNMP configuration	Expose to system administrators; optional
MP_REPL	Application Server 1	Application Server 2	TCP	2008	Database replication between the active and standby servers for Application Server failover	Optional; only if failover is configured
SIP	Cisco Unified Communications Manager (CUCM)	Application Server	TCP UDP	5060	SIP B2BUA; UDP optional	--
SIP over TLS	Cisco Unified Communications Manager (CUCM)	Application Server	TCP UDP	5061	SIP B2BUA; UDP optional	--
HTTP	Cisco IP Phones PhoneView XML application	Application Server	TCP	8080	HTTP services used by Cisco Unified MeetingPlace PhoneView XML on IP Phones (optional)	--
HTTP	Application Server	Hardware Media Server	TCP	9090	Media Server Administration	Expose to system administrators
SIP	External Web Server	Application Server	TCP UDP	61002	Recording signaling	--
Recording control	External Web Server	Application Server	TCP	61003	Recording control	For remote RSS servers only
HTTP, HTTPS	Administrator PC	Application Server	TCP	80, 443	Administrator web access for both MeetingPlace Applications Admin and Cisco WebEx Site Admin	Expose to system administrators
RTP/RTCP	Phones, video devices, gateway	Application Server/EMS, HMS	UDP	16384-32767	Recording media for both Hardware Media Server and Express Media Server	--
<b>Hardware Media Server</b>						
FTP	Application Server	HMS	TCP	21	Retrieving log files	Expose to system administrators
Telnet	Application Server	HMS	TCP	23	Telnet	Expose to system administrators

NTP	Application Server	HMS	UDP	123	Network Time Protocol	--
SNMP	Application Server	HMS	UDP	161	SNMP configuration	Expose to system administrators
MPI	Application Server	HMS	TCP	2010	MPI (Pompa control protocol)	--
DCI	Application Server	HMS	TCP	3333	DCI (DCS control protocol)	--
XML control	Application Server	HMS	TCP	3336	XML control	--
XML cascading	Application Server	HMS	TCP	3337	XML cascading	--
File server	Application Server	HMS	TCP	3340	File server	--
SIP	Application Server	HMS	TCP UDP	5060	SIP	--
RTP/RTCP	Phones	HMS	UDP	16384-16683	Audio Media	Expose to system administrators and end users
RTP/RTCP	--	HMS	UDP	20000-21799	Video Media	Expose to system administrators and end users
Video Blade control	HMS - Audio Blade	HMS - Video Blade	TCP	2944-2945	Video Blade control (H.248)	--
<b>Web Server (optional component)</b>						
HTTP	Administrator PC	Web Server	TCP	80	Client communication for user web access	Expose to system administrators and end users
HTTPS	Administrator PC	Web Server	TCP	443	Client communication for secure user web access	(Optional) Expose to system administrators and end users.
Control connection	Web Servers	Application Servers	TCP	5003	Control connection between Web Servers and the Application Server	Expose to Application Server
<b>User PC/Phones/Gateways</b>						
RTP/RTCP	Application Server	Cisco Unified Personal Communicator (CUPC), IP Phones, Gateways	UDP	16384-32526	Voice and video	--

Cisco Unified Communications Manager (CUCM)						
SIP	Application Server	CUCM	TCP UDP	5060	SIP	--
SIP over TLS	Application Server	CUCM	TCP UDP	5061	SIP	--
SCCP	Phones	CUCM	TCP	2000	--	--
SIP	CUPC	CUCM	TCP UDP	5060	--	--
SIP over TLS	CUPC	CUCM	TCP UDP	5061	--	--
AXL	Application Server	CUCM	TCP	8443	AXL SOAP connection	--

## Outgoing Ports Used in Audio-Only Deployments

**Note:** This section contains a partial list of outgoing ports only.

Protocol	Source	Destination	Port Type	Port	Usage	Special Requirements
<b>Application Server</b>						
SMTP	Application Server	SMTP or Microsoft Exchange Server	TCP	25	Send information for email notification	--
HTTP	Application Server	Microsoft Exchange Server	TCP	80	Send information for Microsoft Exchange integration	--
HTTPS	Application Server	Microsoft Exchange Server	TCP	443	Send information to the Microsoft Exchange Server when SSL is enabled	--
<b>Web Server</b>						
NTP	Web Servers	Application Servers	UDP	123	Time synchronization	--
Control connection	Web Servers	Application Server	TCP	5003	Control connection between Web Servers and the Application Server	--
HTTP	--	--	TCP	61004	Recording control	--

## Integration Requirements

**Note:** The Cisco Unified MeetingPlace integrations for IBM Lotus Notes and Microsoft Outlook are only supported if your deployment is configured for MeetingPlace-scheduling or audio-only. Deployments configured for WebEx-scheduling use WebEx Productivity Tools.

For more information about deployment options, see [Planning Your Deployment](#).

- For information about the IBM Lotus Notes integration, see [IBM Lotus Notes Integration with Cisco Unified MeetingPlace Release 8.6.](#)
- For information about the Microsoft Outlook integration, see [Microsoft Outlook Integration with Cisco Unified MeetingPlace Release 8.6.](#)