

Main page: [Cisco Unified MeetingPlace, Release 7.0](#)

Previous page: [System Requirements](#)

Contents

- [1 TCP/UDP Ports for Cisco Unified MeetingPlace](#)
 - ◆ [1.1 Table: Incoming Ports Used by Cisco Unified MeetingPlace](#)
 - ◆ [1.2 Table: Outgoing Ports Used by Cisco Unified MeetingPlace](#)
- [2 Application Server to Media Server Connectivity](#)
- [3 Application Server to Web Server Connectivity](#)
- [4 Failover Requirements](#)

TCP/UDP Ports for Cisco Unified MeetingPlace

[Table: Incoming Ports Used by Cisco Unified MeetingPlace](#) lists the incoming ports, and [Table: Outgoing Ports Used by Cisco Unified MeetingPlace](#) lists the outgoing ports, used by Cisco Unified MeetingPlace. Use these lists 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.

Note: 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 or Microsoft Exchange. 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.

Table: Incoming Ports Used by Cisco Unified MeetingPlace

| Protocol | Port Type | Ports | Port Usage | Special Requirements |
|---------------------------|-----------|---------|---|----------------------------------|
| Application Server | | | | |
| SSH | TCP | 22 | Secure access | Expose to system administrators. |
| HTTP, HTTPS | TCP | 80, 443 | Administrator web access | Expose to system administrators. |
| NTP | UDP | 123 | Network Time Protocol communication from the Web Servers and Media Servers | Expose to Web Server in the DMZ. |
| SNMP | UDP | 161 | SNMP configuration | Expose to system administrators. |
| MP_REPL | TCP | 2008 | Database replication between the active and standby servers for Application Server failover | - |

Cisco_Unified_MeetingPlace,_Release_7.0_--_Network_Requirements

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|---------------------|------------|-------------|---|--|
| GWSIM | TCP | 5003 | Attachments between the external Web Server and the Application Server | Expose to all Web Servers in the DMZ. You can set up port 5003 to traverse the firewall either inbound or outbound. NOTE: Port 5003 must be closed inbound (that is, communication from the DMZ Web Server to the Application Server must be closed) to allow the Application Server to consistently use a reverse connection successfully. |
| SIP | TCP UDP | 5060 | SIP B2BUA | - |
| HTTP | TCP | 8080 | HTTP services | - |
| HTTP | TCP | 9090 | Media Server Administration | Expose to system administrators. |
| SIP | TCP UDP | 61002 | Recording signaling | - |
| Recording control | TCP | 61003 | Recording control | - |
| HTTP | TCP | 61004 | Communication from the external Web Server to the Application Server for prompts, recordings, attachment access, and login service for remote users | Expose to all Web Servers in the DMZ. |
| RTP, RTCP | UDP | 16384-32767 | Recording media | - |
| Media Server | | | | |
| FTP | TCP | 21 | Retrieving log files | Expose to system administrators. |
| Telnet | TCP | 23 | Telnet | Expose to system administrators. |
| HTTP | TCP | 80 | Web user interface | Expose to system administrators. |
| NTP | UDP | 123 | Network Time Protocol | - |
| SNMP | UDP | 161 | SNMP configuration | Expose to system administrators. |
| MPI | TCP | 2010 | MPI (Pompa control protocol) | - |
| DCI | TCP | 3333 | DCI (DCS control protocol) | - |
| XML control | TCP | 3336 | XML control | - |
| XML cascading | TCP | 3337 | XML cascading | - |
| File server | TCP | 3340 | File server | - |
| SIP | TCP UDP | 5060 | SIP | - |
| RTP/RTCP | UDP | 16384-16683 | Audio Blades | Expose to system administrators and end users. |
| RTP/RTCP | UDP | 20000-21799 | Video Blades | Expose to system administrators and end users. |
| | TCP | 2944-2945 | Video Blade control (H.248) | - |

Table: Incoming Ports Used by Cisco Unified MeetingPlace

Cisco_Unified_MeetingPlace,_Release_7.0_--_Network_Requirements

| | | | | |
|--------------------------------------|------------|--------------------------------|---|---|
| Video Blade control | | | | |
| Web Server | | | | |
| HTTP | TCP | 80 | User web access Cisco Unified MeetingPlace for Microsoft Outlook client | Expose to system administrators and end users. For external users to participate in web meetings, access must be granted from the Internet to the Web Server in the DMZ. However, access to port 80 may be closed if the Web Server is configured for HTTPS and you open TCP port 443. |
| HTTPS | TCP | 443 | Secure user web access Cisco Unified MeetingPlace for Microsoft Outlook client | (Optional) Expose to system administrators and end users. If you have external users, then grant access from the Internet to the Web Server in the DMZ. |
| RTMP | TCP | 1627 | Web meeting room | (Optional but recommended for best performance) Expose to system administrators and end users. If you have external users, then grant access from the Internet to the Web Server in the DMZ. |
| DCOM | TCP | Dynamically open 1024 to 65535 | Cisco Unified MeetingPlace for Microsoft Outlook to Microsoft Exchange uses the CDO API | Required only for Release 7.0.1 systems using the <i>back-end</i> Microsoft Outlook integration. |
| SQL | TCP | 1433 | Communication between the Web Server and the SQL Server database | - |
| Control connection | TCP | 5003 | Control connection between Web Servers and the Application Server | Expose to Application Server. |
| Microsoft Office Communicator | | | | |
| SIP/TLS | TCP | 5060-5069 | Live Communication Server (LCS) gateway service | - |
| IBM Lotus Sametime | | | | |
| TCP/UDP | TCP UDP | 8083 | Java RMI ¹ lookup service for IBM Lotus Sametime | - |
| TCP | TCP | 8086 | RMI calls (JRMP ²) for IBM Lotus Sametime web conferencing | - |

Footnote 1: RMI = Remote Method Invocation

Footnote 2: JRMP = Java Remote Method Protocol

Note: Table: Outgoing Ports Used by Cisco Unified MeetingPlace contains only a partial list of outgoing ports.

Table: Outgoing Ports Used by Cisco Unified MeetingPlace

| Service | Port Type | Port | Purpose | Source | Destination |
|---------------------------|-----------|------|--|--------------------|--|
| Microsoft Exchange | | | | | |
| HTTP | TCP | 80 | Microsoft Exchange integration | Application Server | Microsoft Exchange server |
| HTTPS | TCP | 443 | Microsoft Exchange integration when SSL is enabled | Application Server | Microsoft Exchange server |
| SMTP | TCP | 25 | E-mail notification | Application Server | SMTP server or Microsoft Exchange server |
| SOCKS | TCP | 1080 | Optional configuration for connecting to Cisco WebEx via a proxy configuration | Application Server | Cisco WebEx |

Note: The SOCKS configuration is an optional configuration and is not used unless you specifically configure it. The standard SOCKS port is 1080 but you can configure a different port. Other types of proxies (such as HTTP) are not supported by Cisco Unified MeetingPlace for Cisco WebEx connectivity.

Application Server to Media Server Connectivity

- The Media Server should be on the same local network segment as the Application Server. Cisco Unified MeetingPlace does not support Media Server blades that are remotely located.
- If Primary and Failover Application Servers are deployed, all Media Server hardware can be shared if deployed in a single datacenter.
- If Primary and Failover Application Servers are deployed in different locations, then Media Server hardware must be duplicated at the second site and is only utilized when that "Failover" Application Server is made "Active".

Application Server to Web Server Connectivity

Confirm that the system meets the following requirements so that the Web Server can communicate with the Application Server:

- The Web Server must be able to communicate with the Application Server on TCP port 5003. This can be achieved by opening port 5003 inbound from the Web Server to the Application Server, in which case the normal registration mechanism will operate. Alternately, the Application Server can initiate a reverse (outbound) connection to the Web 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 Application Server.

- Connectivity between the Web Server and the Application Server 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.
- TCP port 61004 must be open inbound from the Web Server to the Application Server. There is no "reverse" connection mechanism for this port.
- Cisco recommends opening UDP port 123 (NTP) bidirectionally between the Web Server and the Application Server. This is used for time synchronization. Alternate time synchronization mechanisms may be used, but any significant clock drift will result in failures.

Failover Requirements

- To configure failover, you need two Application Servers with a high-speed network connection (preferably 100Mbps or better) between them.
- Both the active and the standby Application Servers must be licensed exactly the same. Each Application Server license key is applied separately based on the MAC address of the Cisco MCS where the software is installed.
- If the active and standby Application Server are deployed in different locations, then the same VLAN configuration must be spanned between data centers to accommodate the shared IP address and hostname on both Application Servers.
- Informix database replication is buffered via the LAN/WAN and the heartbeat is done every 60 seconds. If there is no response, it does a ping. For latency, there is no minimum requirement. Network bandwidth is 128kbps minimum between Application Servers.
- Replication happens asynchronously for each configuration change related to users, groups, or meetings. The source server captures the configuration changes and reliably transmits each transaction to the other server. In case the target server or the link between them is down, the configuration changes are queued up on the source server and are synced with the target server when the connection is re-established.
- Data for user profiles; groups; and past, present, and future meetings is replicated.